CUMULATIVE INDEX
TO
ASCE
PUBLICATIONS

Journals (Proceedings), 1970—1974 (Vols. 96–100)
Transactions, 1970—1974 (Vols. 135–139)
Civil Engineering, 1970—1974 (Vols. 40–44)

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CONTENTS

SUBJECT INDEX 1

NAME INDEX 683

INTRODUCTION

This 1970–1974 Cumulative Index to ASCE Publications is a Subject and Name Index to the following ASCE publications:

PROCEEDINGS.–The *Proceedings* of ASCE consist of Journals that are produced under the aegis of the Technical Divisions and the Department of Professional Activities. The Journals are published at different frequencies such as monthly, bimonthly, quarterly, and aperiodic.

CIVIL ENGINEERING.–The official publication of ASCE is its monthly magazine *Civil Engineering–ASCE.*

TRANSACTIONS.–In this index, Volumes 135 through 139 were published. Volumes 135 through 139 contained digests and abstracts of *Proceedings* papers and *Civil Engineering* articles that were published in full in the previous year. Digests are capsule presentations derived from the original papers, discussion, and closures.

MANUALS AND MISCELLANEOUS PUBLICATIONS.–Beginning with Volume 134, *Transactions* also contained digests of material that ASCE published as either a *Manual* or a *Miscellaneous Publication.* Thus these publications are also indexed, by reference to *Transactions.*

Subject Index

The Subject Index terms that are used to describe an article are based on the key words that the authors and editors selected when the paper was published. The key words are based on the Thesaurus of the Engineers Joint Council (1st and 2nd editions), Water Resources Thesaurus of the United States Department of the Interior, and the micro-thesaurus compiled by the Committee on Information Retrieval of the Soil Mechanics and Foundations Division of ASCE. Starting in 1963 ASCE included in its *Journals* and *Civil Engineering,* abstracts and key words of the papers and articles that it published; this was in support of the engineering profession's desire to make its information readily available and retrievable. In addition beginning with 1971, Subject Indexes were included in Miscellaneous Publications, and were then transferred to the annual and cumulative indexes.

Name Index

The Name Index includes references to the authors, co-authors, discussers, co-discussers, and committee chairmen that prepared material that was published. In addition, the Name Index gives citations to the location of the memoir abstract of a deceased member. The Name Index also includes references to individuals, such as ASCE officers, who received significant awards or achieved special status.

The sequence of entries under an author's name in the Name Index is alphabetical for papers and articles of which he was the first-named author. These are followed by discussions of which he was the first-named discusser. The papers and discussions of which he was a co-author are then listed, followed by a reference to the memoir abstract if he passed away during the period covered by the index.

Discussions and Closures

The Name Index can also be used to trace discussions and closures that apply to a particular paper. That is, under the first-named author of a paper, reference will be found to discussions, letters, corrections, and closures that were published following the appearance of the paper or article.

Notation

The notation used in this publication can be explained as follows:

HY5:May 74:621:10549 indicates that the paper was published in the fifth issue of the 1974 *Journal of the Hydraulics Division*; the issue was published in May, 1974. The article appears on page 621 and a copy of the paper can be obtained by requesting Proceedings Paper 10549.

TR:138:604 shows that the Digest appeared in Volume 138 of *Transactions* on page 604.

CE:Mar 73:62 shows that the article appeared in the March 1973 issue of *Civil Engineering* on page 62.

Typical abbreviations used herein are Dsc for discussion, Clo for closure, Rpt for report, Corr for corrections, Err for errata, and Chmn for Chairman of a committee submitting a report.

Items indexed from ASCE Miscellaneous Publications have the following symbols in the references:

1. ABS–Conference on Application of Behavioral Sciences to Environmental Design, May 18-20, 1970
2. AKATS–Airports-Key to the Air Transportation System, April 14-16, 1971

3. ASC73–Airports-Challenges of the Future, March 7-9, 1973
4. BDACE–A Biographical Dictionary of American Civil Engineers, ASCE Historical Publication No. 2, 1972
5. BMS–Analytical Treatment of Problems of Berthing and Mooring Ships, July 19-30, 1965
6. BP73–Bicycle/Pedestrian Planning and Design
7. CEE–Civil Engineering Education, 1974
8. CEO-II–Civil Engineering in the Oceans II, December 10-12, 1969 in Miami Beach, Florida
9. CEWAU–Civil Engineering in the World Around Us, 1974
10. CE13–Thirteenth Coastal Engineering Conference, 1972
11. CPB–City Planning Bibliography-A Basic Bibliography of Sources and Trends, 1972
12. CRTB–Current Research on Tall Buildings, 1972
13. CUWI–Consumptive Use of Water and Irrigation Water Requirements, 1974
14. CWFE–Clean Water for Our Future Environment, March 21-24, 1971
15. ECCD–Economical Construction of Concrete Dams, 1972
16. EC5–Fifth Conference on Electronic Computation, August 31 to September 2, 1970 at Purdue University, Lafayette, Ind.
17. EFFD–Foundations for Dams, Engineering Foundation Conference, 1974
18. EFSE–Subsurface Exploration for Heavy Construction, Engineering Foundation Conference, 1974
19. EHRA–The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, by Richard D. Steyert, 1972
20. EPCE–Electric Power and the Civil Engineer, 1974
21. EPMT–Effective Project Management Techniques, Symposium, San Francisco, Calif., 1973
22. DRS–A Study of Damage to A Residential Structure from Blast Vibrations, 1974
23. GT74–Analysis and Design in Geotechnical Engineering, June 1974
24. HYB–Hydraulic Engineering and the Environment, 21st Annual Hydraulics Division Specialty Conference, August 15-17, 1973
25. IAWM–Interdisciplinary Aspects of Watershed Management, August 3-6, 1970.
26. IMROD–Inspection, Maintenance, and Rehabilitation of Old Dams
27. IRS–Age of Changing Priorities for Land and Water, 1972
28. IR73–Agricultural and Urban Considerations in Irrigation and Drainage, August 22-24, 1973
29. ISSF–International Symposium on Stratified Flow, Novosibirsk, USSR, August 1972

30. LS–Lateral Stresses in the Ground and Design of Earth-Retaining Structures, June 22-24, 1970 at Cornell University, Ithaca, New York
31. MTI–Man/Transportation Interface, Specialty Conference, May 31-June 2, 1972
32. NA–New Approaches to Urban Transportation Needs, March 30-31, 1971
33. NSCD–National Specialty Conference on Disinfection, July 8-10, 1970
34. OIDS–Optimization of Irrigation and Drainage Systems, October 6-8, 1971
35. PES–Performance of Earth and Earth-Supported Structures, June 11-14, 1972
36. PISST–Placement and Improvement of Soil to Support Structures, August 26-28, 1968
37. PITO–Final Report of the Task Committee on Pipelines in the Ocean, 1974
38. PWS–Public Works and Society
39. RCCD–Rapid Construction of Concrete Dams, March 1-5, 1970 at Pacific Grove, California
40. RM13–Stability of Rock Slopes-Proceedings of 13th Symposium on Rock Mechanics, August 30–Sept. 1, 1971
41. RM14–New Horizons in Rock Mechanics-Proceedings of the 14th Symposium on Rock Mechanics, June 11-14, 1972
42. RNCE–Research Needs in Civil Engineering Relevant to the Goals of Society, 1971
43. SDNPF–Specialty Conference–Structural Design of Nuclear Plant Facilities, Chicago, Ill., 1973
44. SEA–Social and Ecological Aspects of Irrigation and Drainage, November 4-6, 1970 in Miami Beach, Florida
45. SRMS–Specialty Conference on the Safety and Reliability of Metal Structures, November 2-3, 1972
46. STF–Structural Failures: Modes, Causes, Responsibilities, April, 1972
47. SUSS–Use of Shotcrete for Underground Structural Support, July 16-20, 1973, Engineering Foundation Conference
48. TB–Proceedings of the International Conference on Planning and Design of Tall Buildings, August 21-26, 1972

The reference of the Proceedings of the International Conference on Planning and Design of Tall Buildings, TB:73:C-AC14-113 is deciphered in the following way. The first two letters indicate the publication, while the next two figures show the year of publication. The following letter or number shows the volume of the publication, while the next letters and numerals show the Technical Committee. When the letter is P it means that the item is a project description in Volume C; the letters AC in Volume C show that it is an Advisory Committee; DM indicates Miscellaneous Discussion in Volume C; the last numerals show the page number on which the indexed item begins.

49. UNSANS–The Use of Underground Space to Achieve National Goals, 1972
50. UPC–Uncased Pipeline Crossings of Railroads and Highways, 1971
51. URC–Symposium on Underground Rock Chambers, January 13-14, 1971
52. UTI–Urban Transportation Innovation, July 1970
53. UT73–Environmental Impact, Specialty Conference of UT Div., 1973
54. UWRM–Urban Water Resources Management, July 27-31, 1970
55. WAVES–International Symposium on Ocean Wave Measurement and Analysis, 1974
56. 4PCSM–Fourth Panamerican Conference on Soil Mechanics and Foundation Engineering, June 1971
57. 12CEC–Twelfth Coastal Engineering Conference, September 13-18, 1970

The journals are identified by the following symbols:

CO	Construction
EE	Environmental Engineering
EI	Engineering Issues–Journal of Professional Activities
EM	Engineering Mechanics
GT	Geotechnical Engineering
HY	Hydraulics
IR	Irrigation and Drainage
PO	Power
PP	Professional Activities*
SA	Sanitary Engineering**
SM	Soil Mechanics and Foundations***
ST	Structural
SU	Surveying and Mapping
TE	Transportation Engineering (includes Highway, Pipeline, Air Transport, Urban Transportation)
UP	Urban Planning and Development
WW	Waterways; Harbors and Coastal Engineering

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*Renamed Engineering Issues–Journal of Professional Activities in October, 1971.
**Renamed Environmental Engineering in February, 1973.
***Renamed Geotechnical Engineering in January, 1974.

Papers and Articles Indexed

The following table indicates the number of papers and articles published in *Proceedings, Transactions, Miscellaneous Publications* and *Civil Engineering* during 1970-1974.

Year	1970	1971	1972	1973	1974
Number of Proceedings Papers	794	833	861	790	785
Number of Civil Engineering articles	122	114	131	115	106
ASCE Transactions papers/digests	780	990	980	850	1094
Miscellaneous Publications	166	357	479	736	679

Obtaining Papers and Articles

If a reader finds an article of interest, he should be able to locate a copy of the appropriate issue of the *Journal, Civil Engineering,* or *Transactions* in his own, or his employer's, library. If the article cannot be found, a search can be conducted at a local public or university library. Failing this, he can contact

American Society of Civil Engineers
345 East 47th Street
New York, N.Y. 10017

or

Engineering Societies Library
345 East 47th Street
New York, N.Y. 10017

In addition,

University Microfilms
300 North Zeeb Road
Ann Arbor, Mich. 48106

has copies of all ASCE publications available in microfilm.

1970-1974 ASCE SUBJECT INDEX

Abrasion
Analysis of Sediment Sorting in Alluvial Channels, Saeed A. Rana, Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168
Local Scour Around Bridge Piers, Hsieh W. Shen, Verne R. Schneider and Susumu Karaki, HY6:Nov 69:1919:6891

Abrasion Resistance
Wear Resistant Industrial Floors of Portland-Cement Concrete, R. F. Ytterberg, CE:Jan 71:68

Absorbers
Structural Dampers, P. Mahmoodi, ST8:Aug 69:1661:6725

Absorption
Discontinuous Composite Wave Absorber Studies, Anthony R. Fallon, CE13:72:III-1903
Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839
Site Evaluation and Design of Seepage Fields, Kent A. Healy and Rein Laak, EE5:Oct 74:1133:10882
Water and Sewage Sludge Absorption by Solid Waste, Ralph Stone and Richard L. Kahle, SA5:Oct 72:731:9250
Wave Reflection and Transmission for Pile Arrays, Brian J. Van Weele and John B. Herbich, CE13:72:III-1935

Abstracts
Current Research on Tall Buildings, CRTB:72, 126pp.
Data Retrieval on Thermal Pollution, Fred A. Limpert, CE:Nov 70:53
Information Sources on Water Quality, Including Thermal Pollution, Fred A. Limpert, Chmn., SA3:June 72:569:8987

Abutments
Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10:Oct 72:995:9303
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
Stability of Rock Slopes, A Three-Dimensional Study, Pierre Londe, Gaston Vigier and Raymond Vormeringer, SM1:Jan 69:235:6363

Accelerating Agents
Admixtures, Bryant Mather, RCCD:70:75

Acceleration (Physics)
Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809
Analysis of Accelerograms and Structural Response, S. K. Guha, S. P. Agarwal, V. P. Agarwal, P. D. Marwadi and S. C. Marwad , TN: EM2:Apr 71:589:8017
Characteristics of Rock Motions During Earthquakes, H. Bolton Seed, Izzat M. Idriss and Fred W. Kiefer, SM5:Sept 69:1199:6783
Dynamic Response Of Submerged Sphere, Herman Bomze, CEO-II:70:511
Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72:589
Fluid Force Analysis and Accelerating Sphere Tests, Wallis S. Hamilton and James E. Lindell, HY6:June 71:805:8195
On Acceleration of Barge Tows, Joseph S. DeSalvo, WW2:May 69:121:6545
Wind Spectra and Dynamic Alongwind Response, Emil Simiu, ST9:Sept 74:1897:10815

Acceleration Tolerance
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381

Accelerometers
Accelerometer-Monitored Coring, William L. Preslan, CEO-II:70:655
Earthquake Ground Motion, State-of-Art Report I, George W. Housner, TB:73:Ib-6-159
In-Place Ocean Soil Strength By Accelerometer, Ronald F. Scott, SM1:Jan 70:199:7013
A New Kind of Ground Motion, G. Rudolfo Saragoni, TB:73:Ib-6-323
Scaling Of Earthquake Accelerograms-A Simplified Approach, Asadour H. Hadjian, TN: ST2:Feb 72:547:8688

Acceptability
Code Acceptance of Unique Building Materials and Systems, Paul K. Heilstedt, CO4:Dec 74:553:11023
Excelling as a Construction Contractor, Altaf Hussain, CO4:Dec 74:621:11029

Accessibility
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
Approaches for Improving Airport Access, Raymond H. Ellis, John C. Bennett and Paul R. Rassam, TE3:Aug 74:661:10737
The Baseball Diamond -- A Gridiron's Best Friend, Thomas C. Kavanagh, CEWAU:74:81
Dallas/Fort Worth's AIRTRANS: model for future PRT systems, Dennis M. Elliott, CE:July 74:70
Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44
Transportation Access to Special Generators, Frederick J. Wegmann, John Ojo and Michael Kennedy, TE3:Aug 74:643:10728

Access Roads
Accessibility and Environmental Quality, V. Setty Pendakur and Gerald R. Brown, UP1:Apr 69:43:6518
Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
Highway Access for Dallas-Fort Worth Airport, Billy R. Rogers, ASC73:Mar 73:95
The New Newark International Airport, CE:Sept 74:74

Research Needs for Airport Terminal Planning, Richard de Neufville, Chmn., TE4:Nov 73:863: 10153
San Antonio: Classic "Stop the Freeway" Case, Virginia Fairweather, CE:July 73:59
Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82
Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, J. C. Orman, Chmn., ASC73: Mar 73:107
Transportation Access to Special Generators, Frederick J. Wegmann, John Ojo and Michael Kennedy, TE3:Aug 74:643:10728

Accident Prevention
The Civil Engineer and Highway Safety, CE:Nov 70: 63
Concrete Safety Barrier Design, Edwin C. Lokken, TE1:Feb 74:151:10356
Dangers of Parallel-Bar Sewer Grates to Bicyclists, David Whitman, BP73:Dec 73:383
Defining the Slip Resistance of Surfaces Used for Pedestrian Traffic, Robert D. Doering, BP73:Dec 73:261
The Elderly Pedestrian: A Special Problem, Susan B. Haberkorn, BP73:Dec 73:414
Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315
Problems in Assuring the Safety of Pedestrians, Susan P. Baker, BP73:Dec 73:364
Regulations for Pedestrian and Bicycle Safety: Why, Who, What and How to Regulate, Monroe B. Snyder, BP73:Dec 73:553
Safety Aspects of Bicycle Transportation, Paul H. Wright, A. Trent Germano and R. Gary Hicks, BP73:Dec 73:368
Safety in Construction: Whose Responsibility, Joseph Goldbloom, CE:Nov 69:42
Safety of Pedestrians and Abutting Property Occupants, Julie Anna Fee, BP73:Dec 73:85
Stark County, Ohio's Low Cost Road-Safety Program, CE:Nov 74:64

Accidents
Dangers of Parallel-Bar Sewer Grates to Bicyclists, David Whitman, BP73:Dec 73:383
Defining the Slip Resistance of Surfaces Used for Pedestrian Traffic, Robert D. Doering, BP73:Dec 73:261
The Driver and the Road, Donald L. Woods, TE4: Nov 71:609:8513
Paved Highway Shoulders and Accident Experience, Clinton L. Heimbach, William W. Hunter and George C. Chao, TE4:Nov 74:889:10921
Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315
Problems in Assuring the Safety of Pedestrians, Susan P. Baker, BP73:Dec 73:364
Regulations for Pedestrian and Bicycle Safety: Why, Who, What and How to Regulate, Monroe B. Snyder, BP73:Dec 73:553
Safety Aspects of Bicycle Transportation, Paul H. Wright, A. Trent Germano and R. Gary Hicks, BP73:Dec 73:368
Safety of Pedestrians and Abutting Property Occupants, Julie Anna Fee, BP73:Dec 73:85
Stark County, Ohio's Low Cost Road-Safety Program, CE:Nov 74:64

Accounting
Manual 33- Cost Control and Accounting for Civil Engineers, Task Committee on Revision of Manual 33, Committee on Standards of Practice, Professional Practice Division of ASCE, Nomer Gray, Chairman, 1971, 34 pp.

Accreditation
Civil Engineering Curricula -- An Evaluation, H. Gordon Larew and John P. Bradshaw, CEE:Feb 74: 1-406
Civil Engineering Education in Transition: A Case Study, Ralph R. Rumer, Jr. and George C. Lee, CEE:Feb 74:1-24
Civil Engineering Faculty Profile (Discussion), James H. Schaub and D. A. Eckler, CEE:Feb 74:2-298
Civil Engineering Graduate Education in Evolution, John D. Haltiwanger, William J. Hall and Nathan M. Newmark, CEE:Feb 74:1-149
Committee on Curricula and Accreditation Paper on Proposed New ASCE Policy on Engineering Education (Discussion), Garrett H. Evans, CEE: Feb 74:2-288
Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538
Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913
Interchange, Ethics, Accreditation, Needs of Practice (Panel Discussions), CEE:Feb 74:2-243
Making Civil Engineering Relevant I, Arthur J. Fox, Jr., CEE:Feb 74:1-1
Partners as First-Class Engineering Technicians, James C. Farley and Noel L. Caldwell, CEE:Feb 74:1-286
Position Paper on Civil Engineering Education, by the ASCE Committee on Engineering Education, Merit P. White, Chmn., PP1:July 69:29:6671
Practioner-Oriented Post-Baccalaureate Education, Ralph E. Fadum, CEE:Feb 74:1-794
Professional Schools for Civil Engineering Education, James H. Schaub, CEE:Feb 74:1-735
Proposed New ASCE Policy on Engineering Education, by Ad Hoc Subcommittee for Revision of Policy C-37, William W. Moore, Chmn., John L. Rumpf, Leo W. Ruth, James H. Schaub and Ralph H. Wallace, CEE:Feb 74:1-905
Recommendations Concerning Proposed New ASCE Policy on Engineering Education (Discussion), John M. Hayes and Donn E. Hancher, CEE:Feb 74:2-291
Recommendations for Environmental Engineering Education, Wesley O. Pipes, EE2:Apr 74:243:10459
Should Renewal of PE License be Automatic?, C. Allen Wortley, CE:Jan 74:69

Accumulation
Trace Metal Accumulation by Estuarine Mollusks, Benjamin H. Pringle, Dale E. Hissong, Edward L. Katz and Stefan T. Mulawka, SA3:June 68:455: 5970

Accuracy
Accuracy of Field Deformation Measurements, James P. Gould and C. John Dunnicliff, 4PCSM:71:1313
Adjusting Radial Surveys, James R. Baker, SU2:Nov 72:157:9335
Effect of Period of Record on Flood Prediction, Peter Victorov, HY11:Nov 71:1853:8525
A Monte Carlo Approach to Seepage in Jointed Rock, William E. Kelly, RM13:72:227
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034

Acidification
Settlement Due to Chemical Attack of Soils, Robert G. Lukas and Robert J. Gnaedinger, Jr., PES:72:I-1087

Acoustic Absorption
Highway Noise and Acoustical Buffer Zones, Asadullah Zulfacar and C. Scott Clark, TE2:May 74:389:10520

Acoustic Detection
Acoustic Emissions In Medium Plasticity Clayey Silt, Robert M. Koerner and A. E. Lord, TN: SM1:Jan 72:161:8618
Acoustic Sensing in Pipeline Determination, A. S. Westneat, PITO:74:39

Acoustic Detectors
Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649

Acoustic Equipment
Acoustical Holography as a Tool for Geologic Prediction, Ted O. Price, EFSE:Aug 74:172
Acoustic Techniques Suitable for Use in Soil, D. L. Hipkins and L. A. Whitney, EFSE:Aug 74:159

Acoustic Measuring Instruments
Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649

Acoustic Reconnaissance
Acoustical Holography as a Tool for Geologic Prediction, Ted O. Price, EFSE:Aug 74:172
Acoustic Techniques Suitable for Use in Soil, D. L. Hipkins and L. A. Whitney, EFSE:Aug 74:159

Acoustics
Engineering Guidelines for Highway Noise Shield Design, J. Kenneth Manhart, TE4:Nov 74:909:10926
Inadequacies of Piston Theory in Fluid-Shell Interactions, Jerome M. Klosner, EM2:Apr 70:143:7237

Acquisition
Using Experimental Models to Guide Data Gathering, Charles F. Meyer, HY10:Oct 71:1681:8449

Activated Carbon
Batch Adsorption Kinetics in Sewage--Activated Carbon, Jeffrey S. Hsieh, Raffi M. Turian and Chi Tien, SA4:Aug 71:505:8339
Improving Mercury (II) Removal by Activated carbon, Michael J. Humenick, Jr. and Jerald L. Schnoor, EE6:Dec 74:1249:11032
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72:1021:9430

Activated Sludge
Activated Sludge ATP: Effects of Environmental Stress, Patrick L. Brezonik and James W. Patterson, SA6:Dec 71:813:8581
Effect Of Flocculation On Activated Sludge Settling Behavior, George A. Farnworth and Richard I. Dick, TN: SA5:Oct 72:812:9229
Energy Concepts of Aerobic Microbial Metabolism, Carl E. Burkhead and Ross E. McKinney, SA2:Apr 69:253:6505
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
Metal Toxicity to Sewage Organisms, Calvin P.C. Poon and Kiran L. Bhayani, SA2:Apr 71:161:8020
Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
Philadelphia Pilots--Builds Oxygen Activated Sludge, Carmen F. Guarino, Michael D. Nelson and Allan B. Edwards, EE4:Aug 74:919:10722
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
Sewerage and Sewage Treatment: State-of-the-Art Abstracts, Ralph Stone, Chmn, SA1:Feb 70:35:7074
Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3:June 73:283:9797

Activated Sludge Process
Anaerobic Digestion of Sludge Containing Iron Phosphate, Sudershan Malhotra, Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432
Analog Simulation of Activated Sludge Systems, Carl E. Burkhead and Don J. Wood, SA3:June 69:593:6631
Computer Design of CMAS Systems, Daniel W. Smith, SA4:Aug 70:977:7474
Design and Operation Model of Activated Sludge, Joseph H. Sherrard and Alonzo W. Lawrence, EE6:Dec 73:773:10220
Effect of Suspended Wastes on System Design, Liang-tseng Fan, Ming-ching T. Ku and L. E. Erickson, EE6:Dec 74:1231:11018
Effects of Iron on Activated Sludge Treatment, John L. Carter and Ross E. McKinney, EE2:Apr 73:135:9679
Generic Feed Forward Control of Activated Sludge, John J. Davis, Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803
Kinetic Analysis of Data from Biological Systems, Robert L. Irvine and Donald J. Schaezler, SA4:Aug 71:409:8323
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
Longitudinal Mixing in Spiral Flow Aeration Tanks, Keith L. Murphy and Boris I. Boyko, SA2:Apr 70:211:7200
Low Temperature Activated Sludge Settling, Sherwood C. Reed and R. Sage Murphy, SA4:Aug 69:747:6747
Mass Transfer Limitations in Substrate Removal, C. Robert Baillod and William C. Boyle, SA2:Apr 70:525:7239
Mixed Liquor Solids Separation by Flotation, Michael C. Mulbarger and Donald D. Huffman, SA4:Aug 70:861:7447
Multi-Process Plant Treats Both Dilute and Strong Sewage, Peter Procopio, CE:June 74:67
New Wastewater Treatment Processes: EPA Encourages Adoption, Charles L. Swanson, CE:Sept 71:49
Nitrogen Removal By Modified Activated Sludge Process, Srinivasalu Balakrishnan and W. Wesley Eckenfelder, Jr., SA2:Apr 70:501:7236
Nitrogen Transformation in Activated Sludge Treatment, Jerzy Ganczarczyk, SA3:June 71:247:8163
Oxygen Activated Sludge Selected by Philadelphia, Michael D. Nelson, CE:Apr 74:42
Oxygen Sewage-Treatment Process Handles Shock Loads, Cuts Odors, R. J. Gozikowski and R. H. Oeler, CE:Aug 74:49
Package Plants-Past, Present and Future, Brian L. Goodman, CE:Feb 69:62
Phosphate Release in Activated Sludge Process, Clifford W. Randall, Duane W. Marshall and Paul H. King, SA2:Apr 70:395:7223
Phosphate Removal at Baltimore, Maryland, Marion R. Scalf, Fred M. Pfeffer, Lawrence D. Lively, Jack L. Witherow and Charles P. Priesing, SA5:Oct 69:817:6817
Phosphate Removal: Summary of Papers, Milton Spiegel and Tom H. Forrest, SA5:Oct 69:803:6807
Pilot Plant Testing for Municipal Sewage Treatment, Robert C. Moore, SA2:Apr 70:573:7242
Problems of Toxicity Measurements in Activated Sludge, Ludwig Hartmann and Gerhard Laubenberger, SA2:Apr 68:247:5894
Response of Activated Sludge to Organic Transient Loadings, Carl E. Adams, Jr. and W. Wesley Eckenfelder, Jr, SA2:Apr 70:333:7205
Role of Activated Sludge Final Settling Tanks, Richard I. Dick, SA2:Apr 70:423:7231
Shearing Effects On Settling of Activated Sludge, Richard A. Bradley and Ray B. Krone, SA1:Feb 71:59:7926
Temperature Effects on Microbial Growth in CSTR's, Richard E. Muck and C. P. Leslie Grady, Jr., EE5:Oct 74:1147:10848
Theoretical Analysis of Activated Sludge Dynamics, Charles R. Ott and Richard H. Bogan, SA1:Feb 71:1:7879
Two AWT Plants for Fitchburg, William H. Parker, III and William F. Callahan, CE:Sept 74:90
Unified Basis for Biological Treatment Design and Operation, Alonzo W. Lawrence and Perry L. McCarty, SA3:June 70:757:7365
When is Tertiary Treatment the Wrong Solution to a Non-Problem?, Hayman W. Stokes and Lloyd D. Hedenland, CE:Sept 74:86

Adaptive Systems
Adaptive Control of Design Codes, Gerald Schorn and Niels C. Lind, EM1:Feb 74:1:10332
On Adaptive Structural Design, William R. Spillers and Lewis Friedland, ST10:Oct 72:2155:9245

Additives
Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697
Enhanced Dispersion in Drag Reducing Open Channel Flow, Jerald P. Peterson, Walter E. Castro, Paul B. Zielinski and William F. Beckwith, HY6: June 74:773:10622
Session IV: Other Improvement Techniques (Additives, Grouting, Thermal, Electro, Vibroflotation, Blasting, Compaction, Piles), Roy E. Olson, PISST:71:91

Adenosine Phosphates
Activated Sludge ATP: Effects of Environmental Stress, Patrick L. Brezonik and James W. Patterson, SA6:Dec 71:813:8581

Adhesion
Lubricant And Polymer Reduction Of Sediment Adhesion, R. A. Erchul and Raymond J. Smith, CEO-II:70:621

Adhesives
High-Strength End Fittings for FRP Rod and Rope, Richard A. Mitchell, Ruth M. Woolley and Nixon Halsey, EM4:Aug 74:687:10716

Adjusting
Adjustment of Traverses, Robert P Vreeland, SU1: Oct 69:25:6816

Adjustment
Adjusting Radial Surveys, James R. Baker, SU2:Nov 72:157:9335
Automated Formulation of Condition Equations, Frank J. Hatfield, TN: SU1:Sept 73:151:10017

Adjustment (Psychology)
Precision of Adjusted Variables by Least Squares, Mohamed F. Madkour, SU2:Sept 68:119:6096

Administration
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509

Admixtures
Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72: 327:8827
Admixtures, Bryant Mather, RCCD:70:75
Bureau of Reclamation Experiences With Concrete Admixtures, Elmo C. Higginson, RCCD:70:103
Chemical Resistant Resurfacing Mortar for Industry, Dallas Grenley and Lou Kuhlmann, CO2:June 74: 133:10603
Concrete Today and Tomorrow, John F. McLaughlin, W. L. Dolch, Sidney Diamond and Charles F. Scholar, CE:Aug 69:42
Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, Clyde E. Kesler, TB:73:III-25-757

Adsorbed Water
Density Of Adsorbed Water At Plastic Limit, Edward J. Doheny and A. Alexander Fungaroli, TN: SM5:May 72:523:8865

Adsorption
Adsorption of Pesticides by Clay Minerals, Ju-Chang Huang and Cheng-Sun Liao, SA5:Oct 70:1057:7603
Downflow Bubble Contact Aeration, Richard E. Speece, Marcos Madrid and Kenneth Needham, SA4:Aug 71:433:8278
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
Removal of Organic Matter by Activated Carbon Columns, Foppe B. DeWalle and Edward S.K. Chian, EE5:Oct 74:1089:10867
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72: 1021:9430
Virus Inactivation During Phosphate Precipitation, Dirk R. Brunner and Otis J. Sproul, SA2:Apr 70: 365:7220

Advection
Frequency of Potential Evapotranspiration Rates in Great Central Plains, Norman J. Rosenberg, IR2: June 72:203:8946

Aeration
Aeration System for Large Navigable Rivers, William Whipple, Jr. and Shaw L. Yu, SA6:Dec 71:883: 8601
Aerator Performance in Natural Streams, Shaw L. Yu, SA5:Oct 70:1099:7601
Characteristics of Self-Aerated Flows, Nagar S. Lakshmana Rao, Kyatsandra Seetharamiah and Thimmaiah Gangadharaiah, HY2:Feb 70:331:7055
Critical Oxygen Deficit for Bank Outfall, Omar E. Rood, Jr. and Edward R. Holley, EE3:June 74:661: 10585
Design of U-Tube Aeration Systems, Richard E. Speece and Rudolph Orosco, SA3:June 70:715:7348
Developing Region in Self-Aerated Flows, Robert J. Keller, K. K. Lai and Ian R. Wood, HY4:Apr 74: 553:10501
Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, Donald C. Raney and Terry G. Arnold, PO1:May 73:139:9707
Effects of Temperature on Stream Aeration, Ivan Metzger, SA6:Dec 68:1153:6309
Flow of Air Through Soils, Geoffrey E. Blight, SM4: Apr 71:607:8026
Inception and Entrainment in Self-Aerated Flows, Thimmaiah Gangadharaiah, Nagar S. Lakshmana Rao and Kyatsandra Seetharamiah, HY7:July 70: 1549:7427
Instream Aeration: An Alternative to Advanced Waste Treatment, William Whipple, Jr., CE:Sept 70:78
Instream Aerators for Polluted Rivers, William Whipple, Jr., Francis P. Coughlan, Jr. and Shaw L. Yu, SA5:Oct 70:1153:7631
Longitudinal Mixing in Spiral Flow Aeration Tanks, Keith L. Murphy and Boris I. Boyko, SA2:Apr 70: 211:7200
Oxygen Transfer from Falling Water Droplets, Charles E. Carver, Jr., SA2:Apr 69:239:6504
Package Plants-Past, Present and Future, Brian L. Goodman, CE:Feb 69:62
Pitfalls in Parameter Estimation for Oxygen Transfer Data, William C. Boyle, Paul M. Berthouex and Thomas C. Rooney, EE2:Apr 74:391:10451
Plant Performance Using Dissolved Oxygen Control, Joseph F. Roesler, EE5:Oct 74:1069:10841
Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
Reaeration Experiments with Microorganisms, Thomas Micka, Edward R. Holley and Frank W. Sollo, TN: EE6:Dec 73:971:10186
Reaeration Measurements in an Estuarn, David W. Juliano, SA6:Dec 69:1165:6987
Reaeration Prediction in Natural Streams, Edward L. Thackston and Peter A. Krenkel, SA1:Feb 69:65: 6407
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
Scaling Methods for Surface Aerators, George Maise, SA5:Oct 70:1079:7605
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9: Sept 73:1531:10004
Surface Aeration Cuts Costs of Waste-Water Treatment Plant, Kenneth D. Miller, CE:Aug 71:41
Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3: June 73:283:9797

Transfer of Oxygen in Aqueous Solutions, Edwin L. Barnhart, SA3:June 69:645:6639
Treatment of Mine Drainage by Industry in Pennsylvania, Walter N. Heine and Ernest F. Giovannitti, SA3:June 70:743:7362
U-Tube Aeration Operating Characteristics, Richard E. Speece, Jack L. Adams and Carolyn B. Wooldridge, SA3:June 69:563:6621
Water Pollution Control by Hydraulic Aeration, Hans J. Leutheusser and Francois J. Resch, HYB:Aug 73:315

Aeration Tanks
Japan Develops Water Pollution Control Technology, Takeshi Goda and Hisashi Sumitomo, CE:Nov 71:42

Aerators
Surface Aeration Cuts Costs of Waste-Water Treatment Plant, Kenneth D. Miller, CE:Aug 71:41

Aerial Photographs
Determination of Perspective Generating Parameters, Walter D. Bernhart, SU2:Sept 68:95:6093
Instant Relief With New Stereo Image Alternator, John E. Leonarz, SU2:Sept 70:257:7564

Aerial Photography
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71:321:8545
Aerotriangulation Precision Attainable for Highway Photogrammetry, Michael C.Y. Hou, SU1:May 74:7:10527
Applications of Airborne Remote Sensing Technology, Ralph W. Kiefer and James P. Scherz, SU1:Apr 70:57:7225
Area Infrared Locates Solid Ground in Mined Area, Bob Beaver and Jack Wood, CE:Mar 73:62
Channel Rectification Engineering Survey Program, John M. Shields, SU1:May 71:61:8119
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HY6:June 74:719:10584
Coastal Engineering Applications of Aerial Remote Sensing, Donald B. Stafford, CE13:72:III-2045
Coastal Erosion in North Carolina, Leonard J. Langfelder, Donald B. Stafford and Michael Amein, WW2:May 70:531:7306
Computer Program System for Aerotriangulation, Kam W. Wong and G. Elphingstone, SU2:Nov 72:219:9322
Estimating Land-Clearing Costs Using Aerial Photograph, Leonard A. LeSchack and Robert G. Brown, CE:Feb 69:66
Helping Man To Use The Seas, Robert M. White, CEO-II:70:11
Holographic Method of Wave Spectrum Measurement, Takashi Ichiye and Yasuhiro Sugimori, WAVES:Sept 74:139
Modified Methods in Numerical Radial Triangulation, Paul R. Wolf and Lloyd T. Bartlett, SU1:Sept 73:121:10028
Monitoring Water Pollution by Remote Sensing, James P. Scherz, SU2:Nov 71:307:8550
Orthophotomapping for Prudhoe Bay Development, Thomas J. O'Brien, SU2:Nov 71:199:8499
Orthophotoquads for Arizona Land-Use Mapping and Planning, Carl C. Winikka and Samuel A. Morse, Jr., SU1:May 74:1:10525
Photogrammetric Control Extension for Route Design, Eugene E. Derenyi and Ahmed Maarek, SU1:May 74:49:10528
Photogrammetric Surveying in Highway Programs, James E. Newman, SU2:Nov 71:297:8539
Photogrammetry Aids Solution of Environment Problems, Alfred O. Quinn, SU1:July 72:87:9044
Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79:9976
San Francisco Bar Dredge Material Disposal, Richard M. Ecker and John F. Sustar, CE13:72:II-913
Sequential Photography of Coastal Water, Maynard M. Nichols, CE13:72:II-747
Space Resection from Collinearity Conditions, Kunwar K. Rampal, SU2:Nov 71:205:8520
Stereophotography of the Sea Surface, An Experiment, L. H. Holthuijsen, M. Tienstra and G. J. v.d. Vliet, WAVES:Sept 74:153
Studies on the Shore Process and Wave Features of the Western Coast of Taiwan, Kenneth S. T. Chang and Frederick L. W. Tang, 12CEC:71:729
Thermal Power Plant Environmental Studies, M. J. Doyle, Jr. and Ramon F. Cayot, CE13:72:III-2075
Time-Interval Photography of Littoral Phenomena, Dennis W. Berg and Eugene F. Hawley, CE13:72:II-725

Aerial Reconnaissance
Coastal Engineering Applications of Aerial Remote Sensing, Donald B. Stafford, CE13:72:III-2045

Aerial Surveys
The Bonanza Project--Remote Sensing for Mineral and Water Resources, R. G. Reeves, L. H. Jefferis, D. H. Knepper, Jr., R. W. Marrs and G. L. Raines, ESE:Apr 70:67
Comparison of Analytical Relative-Orientation Methods, Santosh K. Mahajan and Singh Vijay, SU1:July 72:73:9056
Construction Surveys for Merced River Project, Arthur R. Reitter and Robert N. Janopaul, SU2:Sept 68:203:6104
Depth to Ground-Water Table by Remote Sensing, Mohamed Abdel-Hady and Harlan H. Karbs, IR3:Sept 71:355:8360
Field Observations of Nearshore Current System, Kiyoshi Horikawa and Tamio Sasaki, CE13:72:I-635
Inertial Platforms in Photogrammetric Mapping, Mohamed F. Madkour, SU2:Sept 68:109:6095
Infrared Imaging for Water Resources Studies, James I. Taylor and Ronald W. Stingelin, HY1:Jan 69:175:6331
New Procedure for Numerical Relative Orientation, Santosh K. Mahajan, SU2:Nov 74:155:10962
Photogrammetric Surveying in Highway Programs, James E. Newman, SU2:Nov 71:297:8539
Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79:9976
Resource Assessment with the Aid of Space Photography, Robert N. Colwell, ESE:Apr 70:45
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
Three-Dimensional Forward and Inverse Computations, William E. Ball, Jr., SU2:Nov 72:167:9361
Three-Dimensional Positioning—by Multilateration, William E. Ball, Jr., SU1:May 74:63:10524

Aerobic Processes
Energy Concepts of Aerobic Microbial Metabolism, Carl E. Burkhead and Ross E. McKinney, SA2:Apr 69:253:6505

Aerodynamic Forces
Aerodynamic Forces on a Triangular Cylinder, C. F.M. Twigge-Molecey and W. Douglas Baines, EM4:Aug 73:803:9904

Aerodynamics
Aerodynamic Instability of Suspension Bridges, Ali Sabzevari and Robert H. Scanlan, EM2:Apr 68:489:5889
Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1:Feb 73:53:9518
Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
Effect of Turbulence on Galloping Instability, Milos Novak and Hiroshi Tanaka, EM1:Feb 74:27:10338

Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231
Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
Indicial Aerodynamic Functions for Bridge Decks, Robert H. Scanlan, Jean-Guy Beliveau and Kathleen S. Budlong, EM4:Aug 74:657:10709
Logarithmic Profiles and Design Wind Speeds, Emil Simiu, EM5:Oct 73:1073:10100
Prediction of Wind Wave Heights, Henry T. Falvey, WW1:Feb 74:1:10324
A Procedure For Automating Aircraft Wing Structural Design, Gary L. Giles, EC5:70:125
Research Review -- North and South America, State-of-Art Report 3, W. Alan Dalgliesh and R. D. Marshall, TB:73:Ib-7-383
Response of Triangular Prisms in Turbulent Wind, Peter W. Chen, Alan G. Davenport, Nicholas Isyumov and Leslie E. Robertson, ST11:Nov 71:2679:8526
Self-Controlled Vibration of a Cylinder in a Fluid Stream, Giampaolo DiSilvio, EM2:Apr 69:347:6498
Static Wind Loads on Circular Concave Cable Roofs, Gerald R. Seeley, Heinz Stefan and Paul P. Christiano, ST8:Aug 74:1593:10751
STOL Aircraft Flight and Landing Area Considerations, John M. Riebe, TE2:May 73:339:9743
Structural Systems, Theme Report, Leslie E. Robertson, TB:73:Ia-3-403
Transient Wind Loads on Circular Concave Cable Roofs, Paul P. Christiano, Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966
Wind Load on Cylinder With Spanwise Protrusion, David F. James and Quan-Si Truong, EM6:Dec 72:1573:9416

Aerodynamic Stability
Aerodynamic Investigations of Box Girder Bridges, Ali Sabzevari and Robert H Scanlan, ST7:July 69:1517:6684
Aeroelastic Stability of Unstiffened Suspension Bridges, Daniel Dicker, EM6:Dec 71:1677:8615
Airfoil and Bridge Deck Flutter Derivatives, Robert H. Scanlan and John J. Tomko, EM6:Dec 71:1717:8609

Aeronautics
GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shemsul A. Akhand, TE3:Aug 74:593:10717
Recommended Design Procedure for VASI-2 Systems, Norman D. Witteveen and Michael L. Borta, TE3:Aug 74:553:10721
STOL Aircraft Flight and Landing Area Considerations, John M. Riebe, TE2:May 73:339:9743
Two-Dimensional Analysis of Flow in Jet Pumps, Barry J. Hill, HY7:July 73:1009:9847

Aerosols
Viability of Long-Storaged Airborne Bacterial Aerosols, Calvin P.C. Poon, SA6:Dec 68:1137:6299

Aerospace Engineering
Aerospace Technical Applications in Civil Engineering, David J. Barr, Chmn., TE4:Nov 74:959:10945
Manned Space Station: Civil Engineer's Role, Stewart W. Johnson, CE:Oct 71:88

Aero-Space Transport
Airfield Pavement Systems, Edward L. Murphree, Ronald W. Woodhead and Robert H. Wortman, TE3:Aug 71:389:8283
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
The Civil Engineer in Aerospace, Task Committee on Civil Engineering in Space of the Committee on Space Facilities of the Aero-Space Transport Division, Stewart W. Johnson, Chmn., TE2:May 71:247:8124
Civil Engineering Faculties and the Space Program, James K. Mitchell, ESE:Apr 70:151
Civil Engineers at Government Aerospace Centers, E. J. Kramer, ESE:Apr 70:145
Civil Engineers in Aerospace Industry, Robert D. Johnson, ESE:Apr 70:133
Civil Engineers in the Aerospace Program, Stewart W. Johnson, ESE:Apr 70:127
Density Altitude Variations and Runway Length, Thomas B. Davinroy, TE4:Nov 71:591:8512
Environmental Aspects of Airport System Planning, John F. Brown, TE4:Nov 70:543:7674
Gate Arrival Terminal for Kansas City MCI Airport, Edwin Joe Runyan, TE2:May 69:229:6532
Improving Airport Gate Usage with Critical Path, John P. Braaksma and John H. Shortreed, TE2:May 71:187:8090
Lunagem--A Lunar Mobility Aid, E. V. Rutkowski, ESE:Apr 70:17
Lunar Roving Vehicle, ESE:Apr 70:1
Recommended Design Procedure for VASI-2 Systems, Norman D. Witteveen and Michael L. Borta, TE3:Aug 74:553:10721
Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166
Rigid Pavement Stresses Under Aircraft Loading, Michel A. Sargious, Grant A. Ross and Gerald A. LeMoal, TE4:Nov 71:579:8492
Runway Roughness Effects on New Aircraft Types, Harry R. Lee, AT1:Nov 68:1:6205
Space Criteria for Aircraft Aprons, Paul H. Stafford and Larry D. Stafford, TE2:May 69:237:6533
A Space Shuttle Design Consideration, C. B. Peterson, ESE:Apr 70:29
STOL Passenger Demand in Underdeveloped Areas, Jason C. Yu, TE3:Aug 71:475:8298
V/STOL Concepts for Short Haul Air Transport, Bernard L. Fry and R. William DeDecker, TE3:Aug 71:411:8277

Africa
Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407
Research Review -- Europe and Africa, State-of-Art Report 2, H. Van Koten, TB:73:Ib-7-375
Summary of the Session on International Experiences, Jack C. Jones, IMROD:Sept 73:262

Age
The Elderly Pedestrian: A Special Problem, Susan B. Haberkorn, BP73:Dec 73:414
Mobility as It Relates to the Handicapped and the Elderly's - An Overview, Steven C. Provost, BP73:Dec 73:411

Agglomeration
Shearing Effects On Settling of Activated Sludge, Richard A. Bradley and Ray B. Krone, SA1:Feb 71:59:7926

Aggregates
Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4:Apr 72:311:8817
Concrete Today and Tomorrow, John F. McLaughlin, W. L. Dolch, Sidney Diamond and Charles F. Scholar, CE:Aug 69:42
Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, Clyde E. Kesler, TB:73:III-25-757
Evaluation of Synthetic Aggregate from Lignite Fly Ash, Roger L. Engelke, William B. Ledbetter and Bob M. Gallaway, TE1:Feb 74:27:10337
Gap-Graded Aggregates for Mass Concrete, Shu-t'ien Li, ECCD:72:101
Mathematical Model for Aggregate Plant Production, Donn E. Hancher and John A. Havers, TN: CO1:Mar 71:171:7972
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, A. Negoita and Ion G. Pop, TB:73:III-21-247
Significance of Variably Confined Triaxial Testing, John J. Allen and Marshall R. Thompson, TE4:Nov 74:827:10911

Sprinkle Treatment Increases Highway Skid Resistance, George W. Maupin, Jr., CE:Feb 72:51
Using Aerial Photos to Locate Granular Fill Material, Doss Neely and Abdel-Hady Mohamed, CO2:Oct 68:181:6166

Aging Tests (Materials)
Comparison of Approximate Linear Methods for Concrete Creep, Zdenek P. Bazant and Leonard J. Najjar, ST9:Sept 73:1851:10006
Dirichlet Series Creep Function for Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM2:Apr 73:367:9645
Thermoviscoelasticity of Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM3:June 74:575:10621

Agricultural Engineering
Deflections of Shallow Pier Foundations, Donald C. Slack and John N. Walker, SM4:July 70:1143:7391
Furrow Irrigation with Decreasing Inflow Rate, Radhey Lal and Amarendra C. Pandya, IR4:Dec 70:451:7748
General Hydrologic System Model, Ven Te Chow and V. C. Kulandaiswamy, HY6:June 71:791:8176
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211
Model For Farm Irrigation in Humid Areas, James S. Windsor, IR3:Sept 71:369:8355
Steady Drainage of Layered Soils: II, Nomographs, Sadik Toksoz and Don Kirkham, IR1:Mar 71:19:7986
Steady Drainage of Layered Soils: 1, Theory, Sadik Toksoz and Don Kirkham, IR1:Mar 71:1:7985
Use of Atmometers in Estimating Evapotranspiration, John W. Shannon, IR3:Sept 68:309:6120

Agricultural Products
Predicting Effects of Water Shortage on Crop Yield, J. Ian Stewart and Robert M. Hagan, IR1:Mar 69:91:6443
Salt Balance, Irrigation Efficiency, and Drainage Design, Herman Bouwer, IR1:Mar 69:153:6465
Water-Yield Relations for Nonforage Crops, Lloyd A. Downey, IR1:Mar 72:107:8772

Agricultural Wastes
Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
Agricultural Waste Management, by the Committee on Agricultural Waste Management of the Environmental Engineering Division, Dan M. Wells, Chmn., EE1:Feb 74:1:10317
Animal Wastes--A National Problem, Raymond C. Loehr, SA2:Apr 69:189:6493
Contribution of Minerals to the Ground Water Due to Agriculture in the Upper Santa Ana River Basin of Southern California, Ahmad Amin Hassan, OIDS:72:245
Effects of Farming—Urban Drainage on Fresh Water, C. W. Sheffield and William M. Bishop, IR73:Aug 73:691
Five Year Study of Des Moines River Water Quality, E. Robert Baumann, J. G. DeBoer and Charles S. Oulman, IR73:Aug 73:711
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205

Agricultural Watersheds
Water Management Aspects of Consolidating Irrigation Systems, Gaylord V. Skogerboe, OIDS:72:293

Agriculture
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074
Agriculture and the City, Warren A. Hall, IR73:Aug 73:1
Alternative Water Resource Systems in the Lower Mekong, Kanchit Chaemsaithong, Lucien Duckstein and Chester C. Kisiel, HY3:Mar 74:461:10430
Art of Agricultural Drainage Design and Costs, Ralph L. Toren, IR73:Aug 73:557
Compost for Agricultural Land, Cord Tietjen and Samuel A. Hart, SA2:Apr 69:269:6506
Development of Large Scale Drip Irrigation Systems, Benjamin R. Olson, Jr., IR73:Aug 73:311
Effect of Agricultural Use on Water Quality for Downstream Use for Irrigation, Jerald E. Christiansen, IR73:Aug 73:753
Environmental Protection-TVA Experience, Francis E. Gartrell and James C. Barber, SA6:Dec 70:1321:7761
Estimation and Use of Water Production Functions in Crops, Dan Yaron, IR2:June 71:291:8208
Evaluation of Agricultural Drainage in Water Quality Management, T. Clark Lyons, Dwight P. Russell and Roger G. Fry, IR73:Aug 73:529
Impacts of Rural to Urban Water Use, Jean O. Williams, IR73:Aug 73:85
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
Liaison-Key to Highway and Agricultural Drainage Programs, Carroll J.W. Drablos and Benjamin A. Jones, Jr., IR1:Mar 69:185:6479
Needed - A New Outlook for Irrigation, Ellis L. Armstrong, OIDS:72:1
Organizational Alternatives in Consolidating Irrigation Systems, Evan Vlachos, OIDS:72:317
Peat and Muck Drainage Problems, John C. Stephens, IR2:June 69:285:6603
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205:9971
Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3:Mar 72:503:8769
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2:June 72:275:8964
Role of Irrigation in the West's Expanding Economy, Floyd E. Dominy, IR4:Dec 68:401:6281
Role of the Public in Weather Modification, Adrian R. Chamberlain, IR73:Aug 73:171
Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625
Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73:133:9783
Unique Role of Water in a Developing Economy, Clark N. Crain and David W. Greenman, IR1:Mar 69:79:6439
Water Deficits -Irrigation Design and Programming, Robert M. Hagan and J. Ian Stewart, IR2:June 72:215:8955
Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966

Agronomy
Estimation and Use of Water Production Functions in Crops, Dan Yaron, IR2:June 71:291:8208
Some Environmental Effects of Drainage in Florida, William V. Storch and Robert L. Taylor, IR1:Mar 69:139:6460

Airborne Detectors
The Bonanza Project--Remote Sensing for Mineral and Water Resources, R. G. Reeves, L. H. Jefferis, D. H. Knepper, Jr., R. W. Marrs and G. L. Raines, ESE:Apr 70:67
Ground Truth: It's Role in Resource Assessment from Space, Donald T. Lauer and Don L. Olson, ESE:Apr 70:93

Airborne Equipment
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63:10030

Airborne Wastes
Sediment Measurement Techniques: E. Airborne Sediment, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY1:Jan 70:29:7001

Air Bubbles
Characteristics of an Air-Water Mixture in a Vertical Shaft, C. Samuel Martin, HYB:Aug 73:323
Downflow Bubble Contact Aeration, Richard E. Speece, Marcos Madrid and Kenneth Needham, SA4:Aug 71:433:8278
Self-Aerated Flow Characteristics in Wall Region, Nagar S. Lakshmana Rao and Thimmaiah Gangadharaiah, HY9:Sept 71:1285:8359

Air Conditioning
Computers: Key to Integrated Building Design, Kenneth F. Reinschmidt, CE:Mar 72:74
Le Chateau Champlain, T. A. Monti, TB:73:C-P-278
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389

Air Cooling
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
Power Plant Cycles for Dry Cooling Towers, Paul Leung and Raymond E. Moore, PO4:Dec 71:729:8565

Aircraft
Air Traffic Simulation, One and Two-Runway Airports, Stephen Hall, TE1:Feb 74:221:10342
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785:10154
Determination of Wheel Trajectories, Ezra Hauer, TE4:Nov 70:463:7653
Dynamic Response of Airplanes in Ground Operation, Te-ming Hsueh and Joseph Penzien, TE3:Aug 74:743:10755
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Evaluation of Airfield Performance by Simulation, Austin E. Brant, Jr. and Patrick J. McAward, Jr., TE2:May 74:505:10552
GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shemsul A. Akhand, TE3:Aug 74:593:10717
Improving Airport Gate Usage with Critical Path, John P. Braaksma and John H. Shortreed, TE2:May 71:187:8090
Integrating the Airport into the Community Plan, Joseph A. Foster, TE2:May 69:279:6530
Interaction of Aircraft and Ground Structure, Nai C. Yang, ST6:June 70:1119:7360
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
Noise Control in Urban Planning, Clifford R. Bragdon, UP1:Mar 73:15:9590
Predicting Pavement Performance, Robert E. Boyer and Milton E. Harr, TE2:May 74:431:10533
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andrew Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
The Remote Airport: A Study of Access Feasibility, David R. Miller, T. Keith Dellaway and William H.T. Holden, TE1:Feb 74:179:10359
Rigid Pavement Stresses Under Aircraft Loading, Michel A. Sargious, Grant A. Ross and Gerald A. LeMoal, TE4:Nov 71:579:8492
Space Criteria for Aircraft Aprons, Paul H. Stafford and Larry D. Stafford, TE2:May 69:237:6533
STOL Aircraft Flight and Landing Area Considerations, John M. Riebe, TE2:May 73:339:9743
Structural Response to Sonic Booms, Roland L. Sharpe and Garrison Kost, ST4:Apr 71:1157:8063

Aircraft Industry
Projections of the U.S. Airline Fleet in the Early 1980's, Robert Horonjeff and Richard Coykendall, ASC73:Mar 73:1
Role of the Air Line Pilot in Air Transportation, W. T. Alford, ASC73:Mar 73:55

Aircraft Landing
Grooving on the Runway at Washington National Airport, Vernon R. Gingell, CE:Jan 69:31
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19

Aircraft Landing Areas
Civil Airport Design Criteria, Edwin W. Harn, TE1:Feb 69:13:6385
Effect of Load Placement on Rigid Pavement Behavior, Harvey J. Treybig, William Ronald Hudson and B. Frank McCullough, TE4:Nov 71:681:8543
Space Criteria for Aircraft Aprons, Paul H. Stafford and Larry D. Stafford, TE2:May 69:237:6533

Aircraft Noise
Aircraft Noise: Fugitive Factor in Land Use Planning, Dorn C. McGrath, UP1:Apr 69:73:6520

Air Entraining Agents
Admixtures, Bryant Mather, RCCD:70:75

Air Entrainment
Air Entrainment and Energy Dissipation in Breakers, Alfred Fuhrboter, 12CEC:71:391
Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859
Bubbly Two-Phase Flow in Hydraulic Jump, Francois J. Resch, Hans J. Leutheusser and Solomon Alemu, HY1:Jan 74:137:10297
Characteristics of Self-Aerated Flows, Nagar S. Lakshmana Rao, Kyatsandra Seetharamiah and Thimmaiah Gangadharaiah, HY2:Feb 70:331:7055
Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948
Quick Quality Testing of Concrete, Peter Smith, CE:Aug 70:52
Self-Aerated Flow Characteristics in Wall Region, Nagar S. Lakshmana Rao and Thimmaiah Gangadharaiah, HY9:Sept 71:1285:8359

Air Flow
Longitudinal Mixing in Spiral Flow Aeration Tanks, Keith L. Murphy and Boris I. Boyko, SA2:Apr 70:211:7200

Airfoils
Airfoil and Bridge Deck Flutter Derivatives, Robert H. Scanlan and John J. Tomko, EM6:Dec 71:1717:8609

Air Force Training
Continuing Education in the Strategic Air Command, William A. Orth, Colonel, CEE:Feb 74:1-874
Master's Degree in Civil Engineering / Facilities: A Program Offered at the Air Force Institute of Technology School of Engineering for Air Force Civil Engineers, Stewart W. Johnson, CEE:Feb 74:1-157

Air Navigation
Television Display of Topographic Maps, Kam W. Wong and Nick G. Yacoumelos, SU2:Nov 71:273:8531

Air Pollution
Air Pollution -- A Chest Physician's View, Anne Logan Davis, CEWAU:74:141
Air Pollution and Civil Engineers-Careers and Design Problem, Paul W. Purdom, CE:Feb 70:48

Air Pollution Patterns in an Urban Street Canyon, Frederick A. Brunner and Karl B. Schnelle, Jr., EE2:Apr 74:311:10447
Application of New Technology to the Solution of Environmental Problems, Ralph E. Fadum, PWS: Nov 72:219
Armco Steel Works Features Pollution Control, Charles G. Kramer, CE:June 70:37
Atmospheric diffusion and deposition of Particulate Matter, Robert W. Cleary, Donald Dean Adrian and Richard J. Kinch, EE1:Feb 74:187:10344
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
Carpools - the Underutilized Mode, Lew Pratsch, CE:Jan 74:49
Changing Crop Priorities and Drainage Requirements, John C. Nibler and Royal H. Brooks, IRS:Sept 72:25
The City Viewpoint on Environmental Issues, Milton Pikarsky, UT73:May 73:1
Clean Air Management in Allegheny County, Pa., Edward L. Stockton, SA5:Oct 70:1211:7609
Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72: 823:9319
Considerations in Design of Air Monitoring Network, Alroy F. Aschoff, PO1:Mar 69:119:6475
Costs and Benefits of Reducing Bicyclists' Exposure to Road-Side Air Pollution, Mike Everett, BP73: Dec 73:352
A Counter-Perspective on Pollution Problems, Jimmie L. Thomas, CE:Aug 74:80
Effects and Control of Highway Traffic Noise, James E. Shahan and George W. Kamperman, TE2:May 73:307:9726
Environmental Impact of the New Jersey Turnpike Toms River Extension, John C. Goodrich and Byron H. Willis, UT73:May 73:253
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Infrared Aerial Surveys in Environmental Engineering, Rudolph V. Matalucci and Mohamed Abdel-Hady, SA6:Dec 68:1071:6277
Introductory Remarks, Richard E. Burnett, ECCD: 72:347
Local Legislation and Its Impact on Transportation, Fred C. Hart, UT73:May 73:63
Medicine -- Introduction, M. D. Morris, CEWAU:74: 135
Modeling Alternative Vehicle Related Pollutant Emission Control Strategies in Chicago, J. E. Norco, K. G. Croke and R. E. Wendell, UT73:May 73:89
Modeling Transportation Impact on Air Quality, Ralph C. Sklarew, D. Bruce Turner and John R. Zimmerman, UT73:May 73:127
New Concepts in Urban Parking, John G. Schoon and Herbert S. Levinson, TE3:Aug 74:611:10731
New Municipal Incinerator Defeats Pollution/ Corrosion Problems, Eugene S. Backus, CE:Dec 71: 48
NO$_x$ Emmissions from Stationary Combustion Sources, by The Committee on Atmospheric Pollution of the Environmental Engineering Division, James J. Stukel, Chmn., EE3:June 74:641: 10581
Offshore Developments that Minimize Environmental Impact, Charles J. Lord, CO2:June 74:159:10610
Optimization of Urban Air Monitoring Networks, William P. Darby, Paul J. Ossenbruggen and Constantine J. Gregory, EE3:June 74:577:10577
Prediction of Power Plant Emission Impacts, Michael D. Williams and Eric G. Walther, EPCE:Aug 74: 601
Projections of the U.S. Airline Fleet in the Early 1980's, Robert Horonjeff and Richard Coykendall, ASC73:Mar 73:1
Public Health Effects of Water, Air and Land Pollution, Gwilym M. Roberts, PWS:Nov 72:117
Recommendations for Urban Health, Everett MacLeman, CEWAU:74:158
Research Needs, Leonard B. Dworsky, EPCE:Aug 74:467
Research Needs in Sanitary Engineering, Jack M. Betz, Chmn., SA2:Apr 72:299:8833
Research Needs in the Civil Engineering Aspects of Power, E. Roy Tinney, Chmn., PO2:Feb 70:187: 7073
Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543
Rock Property Changes Under Air Pollutant Action, D. Joseph Hagerty and C. Robert Ullrich, RM14: 73:127
Seattle's Experiment in Free Transit, Donald Munro and Brian Krinbring, CE:Aug 74:86
Sediment Measurement Techniques: E. Airborne Sediment, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY1:Jan 70:29:7001
Sewage Treatment System Odors and Air Pollutants, Ralph Stone, SA4:Aug 70:905:7456
Silver Iodide Generators and Public Health, William J. Douglas, IR3:Sept 70:273:7535
Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, M. E. Berlyand and E. L. Genikhovich, ISSF:Aug 72:125
Sulfur Dioxide Dilemma: Is the Scrubber the Answer?, Virginia Fairweather, CE:June 74:64
Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, Kay H. Jones, Chmn., EE4:Aug 73:461:9936
Tallest Smoke Stack for Mitchell Plant, William W. Stelle, CE:Mar 69:44
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
TVA's Air Quality Management Program, Fred W. Thomas, PO1:Mar 69:131:6483
USBR Specifications Focus on Environment, Bernard P. Bellport, CE:July 71:50
What Industry is Doing About Pollution Control, Charles Hemming, CE:Sept 71:59
Will Air Pollution Regulations Change Commuting Patterns?, William D. Ruckelshaus, CE:Sept 71:86

Air Pollution Control
NO$_x$ Emmissions from Stationary Combustion Sources, by The Committee on Atmospheric Pollution of the Environmental Engineering Division, James J. Stukel, Chmn., EE3:June 74:641: 10581
Research Needs in Evironmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, Kay H. Jones, Chmn., EE6:Dec 73:801:10198
Rock Property Changes Under Air Pollutant Action, D. Joseph Hagerty and C. Robert Ullrich, RM14: 73:127
Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, Kay H. Jones, Chmn., EE4:Aug 73:461:9936

Air Pollution Control Equipment
Clean Air Management in Allegheny County, Pa., Edward L. Stockton, SA5:Oct 70:1211:7609
Modeling Alternative Vehicle Related Pollutant Emission Control Strategies in Chicago, J. E. Norco, K. G. Croke and R. E. Wendell, UT73:May 73:89
Modeling Transportation Impact on Air Quality, Ralph C. Sklarew, D. Bruce Turner and John R. Zimmerman, UT73:May 73:127
New Municipal Incinerator Defeats Pollution/ Corrosion Problems, Eugene S. Backus, CE:Dec 71: 48

Airports
Access to Airports: Basic Policy Development Issues, Robert F. Baker, Chmn., TE3:Aug 69:521:6748

Airfield Pavement Systems, Edward L. Murphree, Ronald W. Woodhead and Robert H. Wortman, TE3:Aug 71:389:8283

Air Force Pavement Design System Concepts, B. Frank McCullough and Morris W. Pearson, TE4:Nov 74:921:10929

Airport Overpass is technical esthetic winner, Yue-Chyou Yang and Kam-Shing Lo, CE:July 74:50

Airports -- Challenges of the Future, Raymond J. Hodge, Chmn., ASC73:73, 213pp.

Air Traffic Simulation, One and Two-Runway Airports, Stephen Hall, TE1:Feb 74:221:10342

Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152

Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174

Application of Computers to Airport Planning and Design, Rufus C. Phillips, III, TE3:Aug 70:341:7472

Approaches for Improving Airport Access, Raymond H. Ellis, John C. Bennett and Paul R. Rassam, TE3:Aug 74:661:10737

Atlanta's Instant Runway, Robert W. Richards, TE3:Aug 71:491:8306

Balanced Highway-Airport Design, Henry K. Evans, TE1:Feb 69:213:6420

Civil Airport Design Criteria, Edwin W. Harn, TE1:Feb 69:13:6385

Continuous Reinforcement in Airport Concrete Pavements, Frederick A. Antonelli, CE:Dec 69:62

Dallas/Fort Worth's AIRTRANS: model for future PRT systems, Dennis M. Elliott, CE:July 74:70

Dallas-Ft. Worth: World's Largest, Best Planned Airport, Eugene E. Dallaire, CE:July 73:53

Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785:10154

Design of Hamburg's New Airport Terminal, Joseph Treiterer, TE3:Aug 70:403:7483

Determination of Wheel Trajectories, Ezra Hauer, TE4:Nov 70:463:7653

Detroit Metropolitan Wayne County Airport, Lin Y. Huang, CE:July 70:55

Environmental Aspects of Airport System Planning, John F. Brown, TE4:Nov 70:543:7674

Fatigue Concepts for Concrete Airport Pavement Design, Robert G. Packard, TE3:Aug 74:567:10702

Financing Airport Development, James H. Kerley, Jr., ASC73:Mar 73:141

Flexible Pavement for Tomorrow's Major Airports, Donald N. Brown, George M. Hammitt, II and Donald M. Ladd, TE4:Nov 69:617:6874

GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shemsul A. Akhand, TE3:Aug 74:593:10717

Gate Arrival Terminal for Kansas City MCI Airport, Edwin Joe Runyan, TE2:May 69:229:6532

General Aviation's Urban Airport Capacity Problem, Walter E. Gillfillan, TE1:Feb 70:79:7109

Grooving on the Runway at Washington National Airport, Vernon R. Gingell, CE:Jan 69:31

Hannover Regional Complex Including Airport, Heinz P. Piper, TE2:May 69:245:6534

Highway Access for Dallas-Fort Worth Airport, Billy R. Rogers, ASC73:Mar 73:95

Houston Airport's Low Cost People-Mover, Hal K. Puckett and James C. Williamson, TE1:Feb 74:255:10330

Improving Airport Gate Usage with Critical Path, John P. Braaksma and John H. Shortreed, TE2:May 71:187:8090

Insulated and Improved Sub-grades for Eliminating Frost Heave, Edward P. Keiner, Jr., CE:Feb 69:38

Integrating the Airport into the Community Plan, Joseph A. Foster, TE2:May 69:279:6530

International Challenge to Airports, Kenneth K. Wilde, TE3:Aug 70:269:7455

KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41

Land Use Planning, Henry L. Newman, ASC73:Mar 73:87

List of Information Sources for Airport Planners, Robert K. Palmer, TE1:Feb 72:131:8721

Maximum Entropy Mixing in Estuaries, Dominic M. Di Toro, TE4:July 69:1247:6885

Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63

Newark Airport Redevelopment Program, John P. Veerling, AT1:Nov 68:19:6244

New Construction Equipment and Techniques, Bruce B. Cloud, ASC73:Mar 73:181

The New Newark International Airport, CE:Sept 74:74

New Paving Concept for Newark Airport, Nai C. Yang, CE:Sept 70:95

Offshore Airport Site Planning, Frank T. Wheby, TE3:Aug 74:543:10725

Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891

Optimization of Runway Exit Configurations, Everett S. Joline, TE1:Feb 74:85:10350

Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82

Pavement Evaluation and Design for Jumbo Jets, Bernard A. Vallerga and B. Frank McCullough, TE4:Nov 69:639:6895

People Considerations at Newark Airport, John P. Veerling, MTI:May 72:243

Planning Airports System in Paris Area, Jacques V. Block, TE2:May 69:253:6535

Planning for Satellite Airports, Walter Gelerman and Richard de Neufville, TE3:Aug 73:537:9951

Recommended Design Procedure for VASI-2 Systems, Norman D. Witteveen and Michael L. Borta, TE3:Aug 74:553:10721

Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504

The Remote Airport: A Study of Access Feasibility, David R. Miller, T. Keith Dellaway and William H.T. Holden, TE1:Feb 74:179:10359

Research Needs for Airport Terminal Planning, Richard de Neufville, Chmn., TE4:Nov 73:863:10153

Rigid Pavement Stresses Under Aircraft Loading, Michel A. Sargious, Grant A. Ross and Gerald A. LeMoal, TE4:Nov 71:579:8492

Runway Overlay Applied Overnight at Toledo Airport, Eugene R. Kasper, CE:Aug 69:58

Runway Roughness Effects on New Aircraft Types, Harry R. Lee, AT1:Nov 68:1:6205

San Antonio: Classic "Stop the Freeway" Case, Virginia Fairweather, CE:July 73:59

Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379

South Florida Training Runway and Everglades National Park, H. C. Lamberton, Jr., CE:Apr 70:53

Staging of Improvements to Air Transport Terminals, Angus J. McKenzie, Jack W.E. Huggett and Kenneth W. Ogden, TE4:Nov 74:855:10920

Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19

STOL Aircraft Flight and Landing Area Considerations, John M. Riebe, TE2:May 73:339:9743

Structural Analysis of Flexible Airfield Pavements, Richard G. Ahlvin, Yu Tang Chou and Ronald L. Hutchinson, TE3:Aug 74:625:10727

Survey of Ground-Access Problems at Airports, Reginald J. Sutherland, Chmn., TE1:Feb 69:115:6415

Systems Analysis in Airport Master Planning, Christian S. Young and Joseph Nemec, Jr., TE4:Nov 74:933:10937

Tampa International Airport: Model for the Jumbo-Jet Age, George S. Jenkins, CE:Oct 71:68

Technology and Decisions in Airport Access, Robert F. Baker and Raymond M. Wilmotte, 1970, 152 pp.

Terminal Access and the Choice of Intercity Modes, Edward A. Beimborn, TE3:Aug 69:463:6731

Test of Air Cushion Vehicles in Public Transport, John L. Lambert, TE1:Feb 69:29:6391

Traffic Analysis for Airport Asphaltic Pavements, William A. Wild, Everett C. Carter, Jerome W. Hall and Matthew W. Witczak, TE4:Nov 74:873:10927

Transportation Within Airports, Howell H. Herbert, TE2:May 69:259:6536
Trends in Airport Planning, Reginald J. Sutherland, ASC73:Mar 73:193
Trends in Offshore Airports, Richard D. Harza, TE4: Nov 72:985:9343
An Uncommon View of the Ground Transportation Problem, Martin Wohl, TE1:Feb 69:143:6417
The Urban Transportation / Innovation Problem: Can New Concepts Help? - The Institutional Response, Michael Cafferty, UTI:71:19
Use of Simulation in Airport Planning and Design, Dana E. Low, TE4:Nov 74:985:10954
West Virginia Commercial Air Trip Generations, Dennis C. Judycki, Frederick J. Wegmann and Everett C. Carter, TE2:May 70:185:7281
Why Regional Airports, Jack D. Downey, ASC73: Mar 73:153

Airport Towers
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19

Air Rights
Use of Air Rights over Urban Expressways, Thomas F. Airis, TE2:May 69:357:6550
Use of Air Space Over Freeway Systems, Lyall A. Pardee, UP1:Apr 69:61:6519

Airspace
Use of Air Space Over Freeway Systems, Lyall A. Pardee, UP1:Apr 69:61:6519

Air Temperature
Modeling Gas Mixing within Steel Chimney Liners, James J. Markowsky, EPCE:Aug 74:137
Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209

Air Traffic
Air Traffic Simulation, One and Two-Runway Airports, Stephen Hall, TE1:Feb 74:221:10342
General Aviation's Urban Airport Capacity Problem, Walter E. Gillfillan, TE1:Feb 70:79:7109
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891

Air Traffic Control
General Aviation's Urban Airport Capacity Problem, Walter E. Gillfillan, TE1:Feb 70:79:7109
Research Needs in Air Transportation by the Committee on Research of the Aero Space Division, Jack E. Snell, Chmn., TE1:Feb 70:45: 7091

Air Transportation
Air Force Pavement Design System Concepts, B. Frank McCullough and Morris W. Pearson, TE4: Nov 74:921:10929
Airport Access Cost-Effectiveness Analysis, Richard de Neufville and Edward Mierzejewski, TE3:Aug 72:663:9141
Airports -- Challenges of the Future, Raymond J. Hodge, Chmn., ASC73:73, 213pp.
Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174
Approaches for Improving Airport Access, Raymond H. Ellis, John C. Bennett and Paul R. Rassam, TE3:Aug 74:661:10737
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
Dallas-Ft. Worth: World's Largest, Best Planned Airport, Eugene E. Dallaire, CE:July 73:53
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785: 10154
Design of Hamburg's New Airport Terminal, Joseph Treiterer, TE3:Aug 70:403:7483
Determination of Wheel Trajectories, Ezra Hauer, TE4:Nov 70:463:7653
Dynamic Response of Airplanes in Ground Operation, Te-ming Hsueh and Joseph Penzien, TE3:Aug 74:743:10755
Environmental Aspects of Airport System Planning, John F. Brown, TE4:Nov 70:543:7674
Fatigue Concepts for Concrete Airport Pavement Design, Robert G. Packard, TE3:Aug 74:567:10702
Financing Airport Development, James H. Kerley, Jr., ASC73:Mar 73:141
General Aviation in Our Transportation System, George P. Coker, ASC73:Mar 73:133
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
Improving Airport Gate Usage with Critical Path, John P. Braaksma and John H. Shortreed, TE2: May 71:187:8090
KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
New Construction Equipment and Techniques, Bruce B. Cloud, ASC73:Mar 73:181
Offshore Airport Site Planning, Frank T. Wheby, TE3:Aug 74:543:10725
People Handling Systems at Tampa International Airport, Marjorie Brink, MTI:May 72:223
Projections of the U.S. Airline Fleet in the Early 1980's, Robert Horonjeff and Richard Coykendall, ASC73:Mar 73:1
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
The Remote Airport: A Study of Access Feasibility, David R. Miller, T. Keith Dellaway and William H.T. Holden, TE1:Feb 74:179:10359
Research Needs for Airport Terminal Planning, Richard de Neufville, Chmn., TE4:Nov 73:863: 10153
Research Needs in Air Transportation by the Committee on Research of the Aero Space Division, Jack E. Snell, Chmn., TE1:Feb 70:45: 7091
Role of the Air Line Pilot in Air Transportation, W. T. Alford, ASC73:Mar 73:55
Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379
Staging of Improvements to Air Transport Terminals, Angus J. McKenzie, Jack W.E. Huggett and Kenneth W. Ogden, TE4:Nov 74:855:10920
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19
Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, J. C. Orman, Chmn., ASC73: Mar 73:107
Structural Analysis of Flexible Airfield Pavements, Richard G. Ahlvin, Yu Tang Chou and Ronald L. Hutchinson, TE3:Aug 74:625:10727
Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, Kay H. Jones, Chmn., EE4:Aug 73:461:9936
Systems Analysis in Airport Master Planning, Christian S. Young and Joseph Nemec, Jr., TE4: Nov 74:933:10937
Systems Approach to Choice in Transport Technology, Edward J. Ward, TE4:Nov 70:455: 7656
Technology and Decisions in Airport Access, Robert F. Baker and Raymond M. Wilmotte, 1970, 152 pp.
Traffic Analysis for Airport Asphaltic Pavements, William A. Wild, Everett C. Carter, Jerome W. Hall and Matthew W. Witczak, TE4:Nov 74:873: 10927
Transportation Research Needs in Civil Engineering, Robert F. Baker, TE3:Aug 71:541:8343
Transportation Within Airports, Howell H. Herbert, TE2:May 69:259:6536
Trends in Offshore Airports, Richard D. Harza, TE4: Nov 72:985:9343
Use of Concentration Index for Pavement Design, Richard G. Ahlvin, Yu Tang Chou and Harry H. Ulery, Jr., TE1:Feb 74:135:10349

Use of Simulation in Airport Planning and Design, Dana E. Low, TE4:Nov 74:985:10954
V/STOL Concepts for Short Haul Air Transport, Bernard L. Fry and R. William DeDecker, TE3: Aug 71:411:8277
Why Regional Airports, Jack D. Downey, ASC73: Mar 73:153

Air Water Interactions
Characteristics of an Air-Water Mixture in a Vertical Shaft, C. Samuel Martin, HYB:Aug 73:323
Physical Scales for Generation of Wind Waves, Jin Wu, WW2:May 72:163:8879
Wave Energy Transfer Mechanisms in Wind-Wave Tunnels, James B. Bole, WW4:Nov 74:325:10932

Air-Water Interfaces
Water Surface Velocities Induced by Wind Shear, Erich J. Plate, EM3:June 70:295:7351
Wave-Influence on Wind Velocity Profile, Omar H. Shemdin, WW4:Nov 70:795:7661

Airy Function
Airy Wave Theory and Breaker Height Prediction, Paul D. Komar and Michael K. Gaughan, CE13:72: I-405
End Effects in Truncated Semi-Infinite Wedge, Robert Wm. Little and Tommie R. Thompson, EM5:Oct 72:1239:9251
Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730
Velocity and Shear Stress in Wave Boundary Layers, P. G. Teleki, CE13:72:I-569

Alabama
Are ASCE Dues Too High, Eugene Zwoyer, CE:May 73:43
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177
Water Resources Planning For Pascagoula Basin, Mason B. Oldham, Jr. and John W. Rushing, WW1:Feb 70:65:7060

Alaska
Alaska Builds Highway Over Muskeg and Permafrost, John C. Becker, CE:July 72:75
Artificial Sea Ice Structures For Alaskan Ports, Charles E. Behlke and Alexander R. McKay, CEO-II:70:361
Dsc, A Proposal for ASCE, Paul J. Theuer, CE:Oct 71:38
Engineering the Trans-Alaska Pipeline, CE:Sept 72: 79
First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50
Floating Breakwaters, David S. Miller, CE:Mar 74:77
Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73: 245:9665
Orthophotomapping for Prudhoe Bay Development, Thomas J. O'Brien, SU2:Nov 71:199:8499
Regional Sediment Yield Analysis of Alaska Streams, Gary L. Guymon, HY1:Jan 74:41:10255
Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11
The Trans-Alaska Pipeline Story, E. L. Patton, TE1: Feb 73:139:9573
Weather Modification for Alaska Fire Control, James W. Franks, OIDS:72:423

Alcohols
Suppression of Evaporation Losses from Snowpacks, James L. Smith and Howard G. Halverson, IAWM: 72:5

Algae
Aerial Color Analyses of Water Quality, Kenneth R. Piech and J. E. Walker, SU2:Nov 71:185:8507
Algal Reactor For Life Support Systems, Gedalia Shelef, William J. Oswald and Percy H. McGauhey, SA1:Feb 70:91:7105
Bacterial Dieoff in Ponds, Ernst M. Davis and Earnest F. Gloyna, SA1:Feb 72:59:8714
Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5: Oct 73:639:10043
Design Principles of Waste Stabilization Ponds, D. Thirumurthi, SA2:Apr 69:311:6515
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, NSCD:71:563
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472
Dissolved Oxygen Variations in Stratified Lakes, David A. Bella, SA5:Oct 70:1129:7628
Ecology of Blue-Green Algal Viruses, Robert E. Cannon, Miriam S. Shane and Eugene DeMichele, EE6:Dec 74:1205:11012
Enteric and Pathogenic Bacteria Dieoff Effects by Algae, E. M. Davis, M. Pen and Earnest F. Gloyna, NSCD:71:539
Evaluation of Anaerobic Denitrification Processes, Daniel F. Seidel and Ronald W. Crites, SA2:Apr 70:267:7211
Evaluation of Some Stabilization Ponds in India, R. H. Siddiqi and B. K. Handa, SA1:Feb 71:91:7912
Filtration of Chlorella Through Dune-Sand, Yair Folkman and Alberto M. Wachs, SA3:June 70:675: 7332
Influence of Free CO_2 on Q_{10} for Chlorella vulgaris, John T. Novak and H. David Sanders, TN: EE3: June 74:798:10571
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
Nutrients And Aquatic Vegetation Effects, G. Wolfgang Fuhs, EE2:Apr 74:269:10453
Rational Multivariate Algal Growth Kinetics, E. Joe Middlebrooks and Donald B. Porcella, TN: SA1: Feb 71:135:7859
Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607: 10048
Sulfide Production in Waste Stabilization Ponds, Earnest F. Gloyna and Ernesto Espino, SA3:June 69:607:6637
Temperature-Toxicity Model for Oil Refinery Waste, James H. Reynolds, E. Joe Middlebrooks and Donald B. Porcella, EE3:June 74:557:10580

Algal Control
Diversion of Wastewater from Madison Lakes, William C. Sonzogni and G. Fred Lee, EE1:Feb 74: 153:10318
Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607: 10048

Algorithms
Algorithm for Matrix Bandwidth Reduction, Henry R. Grooms, ST1:Jan 72:203:8636
Automated Optimum Design From Discrete Components, Aldo Cella and Robert D. Logcher, EC5:70:259
Computer-Aided Processing of Structural Design Specifications, Surendra K. Goel and Steven J. Fenves, EC5:70:763
Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570
Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336
General Treatment of Structural Modifications, John H. Argyris and John R. Roy, ST2:Feb 72:465:8732
Interactive Graphics In Civil Engineering Design, Richard T. Douty and Sidney Shore, EC5:70:439
Models For Approximate Frame Analysis, Donald L. Dean and R. Richard Avent, TN: ST8:Aug 72: 1903:9086
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
On Adaptive Structural Design, William R. Spillers and Lewis Friedland, ST10:Oct 72:2155:9245

Properties Of Discrete Optima In Structural Optimization, Aldo Cella, TN: ST3:Mar 72:787:8755
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
Routing for Public Service Vehicles, David H. Marks and Robert Stricker, UP2:Dec 71:165:8573
Solution of Linear Equations--State-of-the-Art, Christian Meyer, ST7:July 73:1507:9861
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
Towards a Design System for Stratified Flows, Michael B. Abbott and John P. Grubert, ISSF:Aug 72:113

Alignment
Computer Technology in New Line and Relocation Planning, R. A. Stane, TE3:Aug 70:291:7458
Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559
Effect on Waterway Depth and Alignments, Casimir J. Kray, WW2:May 70:497:7305
Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Railroad Track Relocation Saves Time, Money, John G. Fry, CE:May 74:86
Seasonal Deformation of 2-Mile Straight Line, Joseph J. Spranza and Amos M. Nur, SM12:Dec 71:1623:8586

Alkaline Soils
Deterioration of Concrete Ditch Liners in Saline-Alkali Soil, Luther B. Grass and Paul Koluvek, IR4:Dec 74:477:10997

Alkalis (Bases)
Alkali-Silica Reaction: A Major Cause of Concrete Deterioration, Joseph D. Walters, IMROD:Sept 73:464

Allowable Stress
Elastic Analysis and Design, Theme Report, Edwin H. Gaylord, TB:73:II-14-153

Alloys
The Use of Lightweight Alloys in Tall Buildings, Robert J. Brungraber, TB:73:Ia-3-623

Alloy Steels
Factors Affecting Durability of Ferrous Metals in the Atmosphere, Francis L. LaQue, ST11:Nov 69:2385:6890

Alluvial Channels
Analysis of Sediment Sorting in Alluvial Channels, Saeed A. Rana, Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168
Bed Load Transportation in Alluvial Channels, Satya P. Garg, Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091
Digital Model of Alluvial Aquifer, Peter C. Trescott, George F. Pinder and John F. Jones, WW3:May 70:1115:7264
Flume Experiments on Alternate Bar Formation, Hai Yain Chang, Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869
Friction-Factors for Flat-Bed Flows in Sand Channels, Frederico Lovera and John F. Kennedy, HY4:July 69:1227:6678
Friction Factors for Flow in Sand Bed Channels, Abu M.Z. Alam and John F. Kennedy, HY6:Nov 69:1973:6900
Hydrodynamic Effects of Seepage on Bed Particles, Gary Z. Watters and Manam V.P. Rao, HY3:Mar 71:421:7973
Indeterminate Hydraulics of Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 70:2309:7696
Ripple Concentration and Friction Factor, Fred F.M. Chang, HY2:Feb 70:417:7067

Alluvial Deposits
Ripple and Dune Phases in a Narrowly Graded Sand, Christopher John Pratt and Kenneth V.H. Smith, HY5:May 72:859:8912

Alluvial Streams
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
Factors Determining Bed Forms of Alluvial Streams, Vito A. Vanoni, HY3:Mar 74:363:10396
Flow Over Triangular Elements Simulating Dunes, Mahmoud Faisal Rifai and Kenneth V.H. Smith, HY7:July 71:963:8246
Suspended Load In Bhagirathi River System, Amarendra N. Biswas, TN: HY1:Jan 72:315:8617

Alluvium
Design of Stable Channels in Alluvial Materials, R. M. Haynie and Daryl B. Simons, HY2:Nov 68:1399:6217
Nuclear Power Plant Siting on Deep Alluvium, Ronald F. Scott and Jack J. Schoustra, GT4:Apr 74:449:10497
Sedimentation Engineering, Chapter II: Sediment Transportation Mechanics: Q. Genetic Classification of Valley Sediment Deposits, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:43:7815

Alteration of Flow
Mississippi River Water for Texas?, Ottoniel Arguello and Raphael G. Kazmann, IR4:Dec 73:441:10212

Aluminum
Behavior of Unsymmetrical-Continuous Folded Plates, Karl C. Muhlbauer and Fred W. Beaufait, ST12:Dec 69:2783:6958
Failure Modes of Folded Sandwich Panel Roofs, Paul P. Fazio, ST5:May 72:1085:8913
Field Tests of Aluminum Orthotropic Bridge Deck, Maurice L. Sharp, ST11:Nov 69:2463:6920
Guide for the Design of Aluminum Formed-Sheet Building Sheathing, Robert B.B. Moorman, Chmn, ST8:Aug 69:1727:6744
Guide for the Design of Aluminum Transmission Towers, Robert J. Brungraber, Chmn.; ST12:Dec 72:2785:9457
Metals in Wastewater Treatment, William H. Ailor, Jr., EE2:Apr 74:295:10444
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
Structural Metals-Aluminum, John W. Clark, CE:Aug 69:31
Thin Aluminum Shear Webs, Maurice L. Sharp and John W. Clark, ST4:Apr 71:1021:8048

Aluminum Alloys
Guide for the Design of Aluminum Transmission Towers, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457
Structural Metals-Aluminum, John W. Clark, CE:Aug 69:31
The Use of Lightweight Alloys in Tall Buildings, Robert J. Brungraber, TB:73:Ia-3-623

Alums
Clarification of Book-Mill Effluent by Enzyme-Alum, Yeun C. Wu, EE3:June 74:541:10573

Ammonia
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901
Sealing Leaks in Pipelines with Ammoniated Waters, Kenneth K. Tanji, L. D. Doneen and J. V. Kubes, IR1:Mar 69:171:6473
Simulation of Ammonia Stripping from Wastewater, Joseph F. Roesler, Robert Smith and Richard G. Eilers, SA3:June 71:269:8182

Amoeba

Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, NSCD: 71:319

Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567

Amortization

Amortization of Nonconforming Uses in Flood Plains, William R. Walker, UP1:Mar 70:1:7125

Amplitude

Bed-Material Transport and Bed Forms, Marion R. Carstens and Hilmi D. Altinbilek, HY5:May 72: 787:8890

Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71

Anaerobic Conditions

Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153

Anaerobic Digestion

Anaerobic Digestion of Sludge Containing Iron Phosphate, Sudershan Malhotra, Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432

Control of Anaerobic Digestion Process, Aaron S. Collins and Bobby E. Gilliland, EE2:Apr 74:487: 10475

Digestion: Concentration-Loading-Time Limits, Ralph H. Clark and V. Darryl Orr, TN: SA5:Oct 72:809:9229

Dynamic Model of the Anaerobic Digestion Process, John F. Andrews, SA1:Feb 69:95:6418

Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403

Unified Basis for Biological Treatment Design and Operation, Alonzo W. Lawrence and Perry L. McCarty, SA3:June 70:757:7365

Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, Alexander Penman, CE:Nov 73:65

Anaerobic Processes

Design of Sludge Digestion Tanks, Richard D. Pomeroy, SA5:Oct 68:769:6137

Dialysis Separation of Sewage Sludge Digestion, Mark J. Hammer and Jack A. Borchardt, SA5:Oct 69:907:6845

Dynamic Model of the Anaerobic Digestion Process, John F. Andrews, SA1:Feb 69:95:6418

Evaluation of Some Stabilization Ponds in India, R. H. Siddiqi and B. K. Handa, SA1:Feb 71:91:7912

Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403

Phosphate Release in Activated Sludge Process, Clifford W. Randall, Duane W. Marshall and Paul H. King, SA2:Apr 70:395:7223

Analog Computers

Analog Simulation of Activated Sludge Systems, Carl E. Burkhead and Don J. Wood, SA3:June 69:593: 6631

Nonlinear Bending of Bars, Imamuddin Khwaja, TN: EM1:Feb 71:137:7858

Periodic Excitation of Multiple-Unit Impact Dampers, Sami F. Masri, EM6:Dec 70:1195:7747

Theoretical Analysis of Activated Sludge Dynamics, Charles R. Ott and Richard H. Bogan, SA1:Feb 71: 1:7879

Analogies

Flux Development Region in Submerged Jets, W. Hall C. Maxwell. EM6:Dec 70:1061:7756

Analogs

Analog Analysis of Water Distribution Networks, Don J. Wood, TE2:May 71:281:8112

Analog of Ground Water in East-Central New Mexico, H. Boyd Phillips and Harris R. McDonald, IR1:Mar 69:27:6435

Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473

Finite-Element Analogue Of Navier-Stokes Equation, J. Tinsley Oden, TN: EM4:Aug 70:529:7444

Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215

Scaling Methods for Surface Aerators, George Maise, SA5:Oct 70:1079:7605

Analysis

Accuracy Equilibrium Slope Stability Analyses, Stephen G. Wright and Fred H. Kulhawy, SM10: Oct 73:783:10097

Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997

Analysis of an Inhomogeneous Elastic Half-Space, W. David Carrier, III and John T. Christian, TN: SM3: Mar 73:299:9632

Analytical Approach on Wave Overtopping on Levees, Hiroyoshi Shi-igai and Tsugio Kono, 12CEC:71:563

Elastic Design for Earthquake Motions, State-of-Art Report 5, R. Gordon Dean, TB:73:II-14-215

Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006

Torsional Stiffness of Embedded Footings, Movses J. Kaldjian, SM7:July 71:969:8241

Use of Simulation in Airport Planning and Design, Dana E. Low, TE4:Nov 74:985:10954

Analytical Photogrammetry

Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79: 9976

Analytical Techniques

Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43

Analytic Geometry

Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, TE1:Feb 74:207: 10329

Anchorages

Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187: 9338

A Case Study of a Soil Anchor Tie-Back System, Michael L. Larson, Willard R. Willette, Harold C. Hall and John P. Gnaedinger, PES:72:I-1341

A Case Study of the Bauer Earth Anchor, Marvin D. Oosterbaan and Douglas G. Gifford, PES:72:I-1391

Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568

Design and Observation of a Tied-Back Wall, Gerald W. Clough, Paul R. Weber and Joseph Lamont, Jr., PES:72:I-1367

Design Method for Vertical Anchor Slabs in Sand, N. Krebs Ovesen and Helle Stromann, PES:72:I-1481

Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559

Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Newport Bridge Superstructure, Alfred Hedefine and Louis G. Silano, ST11:Nov 71:2653:8533

Plane Strain Approximations in Finite Element Analyses of Temporary Walls, Yuet Tsui and Gerald W. Clough, GT74:June 74:173

Pullout Resistance of Anchors Buried in Sand, Kent A. Healy, TN: SM11:Nov 71:1615:8511

Studies on Anchored Flexible Walls in Sand, Thomas H. Hanna and Ibrahim I. Kurdi, GT10:Oct 74:1107: 10854

Anchored Bulkheads

Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568

Anchoring

Sheet Pile Design with Variable Soil Parameters, William D. Kovacs, James H. Martin and Frank A. Gerig, TN: ST2:Feb 74:200:10310

The Vertical Holding Capacity of Marine Anchors In Sand, Stanley M. Bemben and Edward H. Kalajian, CEO-II:70:117

Anchors

Anchor Zone Stresses in Prestressed and Concrete Beams, Kashi T. Sundara Raja Iyengar, Raja Sundara and Mandanapalli K. Prabhakara, ST3:Mar 71:807:7961

Rock Island to Use Bulb Turbines—A First in U.S., Wayne A. Stewart and Warner W. Wayne, Jr., PO2:Dec 74:175:11005

Sand Movement Measurement Near Anchor Plates, Robert W. Carr and Thomas H. Hanna, TN: SM5: May 71:833:8087

Tie-Backs in Clay to Support Sheeted Excavation, Charles I. Mansur and Mahmood M. Alizadeh, SM2:Mar 70:495:7163

Anchors (Structures)

Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980

Newport Suspension Bridge, Alfred Hedefine and Louis G. Silano, CE:Aug 70:64

Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221

Sloped Sheeting, Harry Schnabel, Jr., CE:Feb 71:48

Strengthening of John Hollis Bankhead Dam, F. G. Thompson, CE:Dec 69:75

Tiebacks for Bank of America Building Foundation Wall, Thomas D. Wosser and Robert D. Darragh, CE:Mar 70:65

Tower: A Design System For Guyed Towers, Karl L. Reichelt, Daniel M. Brown and John W. Melin, EC5:70:377

Anemometers

Anemometer Height in Froude Scaling of Wind Stress, Jin Wu, WW1:Feb 71:131:7873

Dr. Santorio's Water Current Meter, Circa 1610, Arthur H. Frazier, HY1:Jan 69:249:6351

Hot-Film Turbulence Measurements in Water Flow, Francois J. Resch, HY3:Mar 70:787:7177

Wind Stress on a Coastal Water Surface, S. A. Hsu, CE13:72:III-2531

Angle Iron

Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72: 2507:9348

Angle of Repose

Stress-Strain Relationships for Particulate Materials at Equilibrium, Peter W. Rowe, PES:73:III-327

Angles (Geometry)

Lateral Refraction in Proximity of Structures, Ron K.H. Adler and Haim B. Papo, SU1:Oct 69:93:6846

Rounds Versus Positions, Mohamed F. Madkour, SU1:Oct 69:151:6862

Animal Behavior

Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68

Animal Ecology

The Cross-Florida Barge Canal: A Lesson in Ecology, Suzy Fisher, CE:Apr 71:44

Animal Wastes (Wildlife)

Agricultural Waste Management, J. Ronald Miner, EE2:Apr 74:363:10470

Anisotropy

Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73: 1283:10207

Bearing Capacity of Anisotropic Cohesive Soil, Edward H. Davis and John T. Christian, SM5:May 71:753:8146

Closing Materials Research Structural Design Cycle, Christos C. Chamis, EM5:Oct 69:1255:6864

Consolidation of a Layer Under a Strip Load, John T. Christian, Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030

Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72: 1325:9417

Faulting Across Discontinuities in Anisotropic Rock, Fred A. Donath, RM13:72:753

Finite Element Method for Wood Mechanics, Adam Al-Dabbagh, James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784

In Situ Strength of Rolled and Hydraulic Fill, Geoffrey E. Blight, SM3:May 70:881:7273

Mohr-Coulomb Strength Theory for Anisotropic Soils, Wallace H. Baker and Raymond J. Krizek, SM1:Jan 70:269:7015

Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225

Strength of Anisotropically Consolidated Compacted Clay, Kenneth L. Lee and Ross A. Morrison, SM6: Nov 70:2025:7703

Testing of Anisotropic Clay Soils, Adel S. Saada, TN: SM5:Sept 70:1847:7502

Thermal Stresses in Multilayer Anisotropic Shells, Tung D. Lin and Donald E. Boyd, EM3:June 71: 829:8206

Transverse Anisotropy In Disks And Plates, Sridhara D.N. Murthy and Archibald N. Sherbourne, TN: EM4:Aug 72:1005:9082

Annexation

The Aftereffects of Annexation--A Case Study, Russell E. Helms, UP1:Apr 69:15:6490

Annuli

Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533

Antarctic

Basic Construction Principles in Higher Latitudes, Shu-T'ien Li, CO1:Mar 74:33:10399

Antecedent Precipitation

Infiltration and Antecedent Precipitation, Constantine N. Papadakis and Herbert C. Preul, HY8:Aug 73: 1235:9940

Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887

Antennas

Computation of Cutting Length of Guys, Stanley J. Jarecki, Y. C. Lee and Paul P. Christiano, PO4:Dec 71:817:8587

Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Membrane Solutions for Shells with Edge Constraint, Charles R. Steele, EM3:June 74:497:10605

Minimum Weight Design of Enclosed Antennas, Mehdi S. Farghamee, ST6:June 69:1139:6592

New Microwave Tower Design Reduces Drag, Demetri Zavitzianos, CE:Mar 71:46

Performance of Foundation for Altair Radar, Robert V. Whitman, Dirk R. Casagrande, Kjell Karlsrud and Richard M. Simon, SM1:Jan 71:1:7809

Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242

Unique Solution for Difficult Rigging Problem, James F. Shafer, CO1:July 69:55:6680

World's Largest Log-Periodic Antenna, Yen H. Dong, ST9:Sept 71:2371:8400

Application Methods

Basic Principles of Pulse Irrigation, David Karmeli and Gideon Peri, IR3:Sept 74:309:10831

General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959

Implementation, Elmer K. Timby, TB:73:C-DM-225

Practical Aspects of Shotcrete Application, Fernando E. Valencia, SUSS:July 73:114

Summary of Session X - Shotcrete Case Histories and Specialties, Kenneth D. Hansen, SUSS:July 73:436

Using Accelerator - Wet Process, H. N. Steenson, SUSS:July 73:104

Appraisals

Safety Appraisal of Old Dams: An Updated Perspective, Gurmukh S. Sarkaria, IMROD:Sept 73:405

Apprenticeship

Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778

Local Sections and Social Action: How It Stands, Charles Hemming, CE:Nov 70:33

Minority Training Programs Lurch Ahead, Suzy Fisher, CE:Sept 71:68

Approximation Method

Stiffness Center Method, Hayrettin Kardestuncer, ST7:July 74:1421:10673

Appurtenances

Summary of Presentations and Discussions on Materials Deterioration and Ancillary Equipment, Eric B. Kollgaard and Joseph D. Walters, IMROD:Sept 73:528

Aprons

Space Criteria for Aircraft Aprons, Paul H. Stafford and Larry D. Stafford, TE2:May 69:237:6533

Aquatic Biology

Dams and Ecology: Can They be Made Compatible?, Darrell J. Turner, CE:Sept 71:76

Aquatic Life

Aquatic Studies at Ludington Pumped Storage Project, John Z. Reynolds, Peter I. Tack and Charles R. Liston, EPCE:Aug 74:227

Aquatic Plants

Biological Control of Aquatic Weeds, Robert D. Blackburn, David L. Sutton and Thomas Taylor, IR3:Sept 71:421:8362

Environmental Aspects of Aquatic Plant Control, Thomas R. Bartley and Edward O. Gangstad, IR3:Sept 74:231:10810

Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851

Public Irrigation Systems In Puerto Rico, Garcia Rafael Reyes, IR1:Mar 71:109:7953

Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966

Aqueducts

Aqueduct Route Optimization by Dynamic Programming, Nathan Buras and Ze'ev Schweig, HY5:Sept 69:1615:6779

Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327

Design of California Adequct, Harald D. Frederiksen, IR2:June 69:307:6614

Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67

Operation and Maintenance of Colorado Aqueduct, Henry J. Mills, IR1:Mar 71:203:8007

Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, TE3:Aug 74:733:10756

The Undersea Aqueduct -- A New Concept in Transportation, Ellis L. Armstrong, TE2:May 72:303:8893

Use of Pipelines in the California Water Project, Alfred R. Golze, PL3:Nov 67:25:5584

Aqueous Solutions

Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, NSCD:71:319

Polymer-Cement Concretes for Field Construction, Sandor Popovics, CO3:Sept 74:469:10806

Aquifer Characteristics

Exotic Uses of Aquifers, Raphael G. Kazmann, IR3:Sept 71:515:8352

Identification of Parameters in Finite Leaky Aquifer System, Miguel A. Marino, HY2:Feb 73:319:9567

Aquifers

Analog of Ground Water in East-Central New Mexico, H. Boyd Phillips and Harris R. McDonald, IR1:Mar 69:27:6435

Artificial Ground-Water Recharge by Means of Wells in Israel, Yoav Harpaz, HY12:Dec 71:1947:8579

Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760

Changing the Consumptive Use on the Gila River Flood Plain, Southeastern Arizona, Ronald L. Hanson, Frank P. Kipple and Richard C. Culler, IRS:Sept 72:309

Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958

Contribution of Minerals to the Ground Water Due to Agriculture in the Upper Santa Ana River Basin of Southern California, Ahmad Amin Hassan, OIDS:72:245

Digital Model of Alluvial Aquifer, Peter C. Trescott, George F. Pinder and John F. Jones, WW3:May 70:1115:7264

Discharge and Travel Time for Ground-Water Conduits, Stanley S. Butler and David L. Gundlach, IR1:Mar 74:17:10393

Drawdown in Compressible Unconfined Aquifer, Tatiana D. Streltsova, HY11:Nov 74:1601:10950

Exotic Uses of Aquifers, Raphael G. Kazmann, IR3:Sept 71:515:8352

Exotic Uses Of Aquifers (and their impact on groundwater basin management), Raphael G. Kazmann, SEA:70:295

Geophysics in Groundwater Exploration, Tsvi Meidav and Jerome S. Nelson, OIDS:72:257

Ghanats of Iran: Drainage of Sloping Aquifer, Mohammed Bybordi, IR3:Sept 74:245:10785

Gravitational and Dispersive Mixing in Aquifers, Lynn W. Gelhar, John L. Wilson, III and John S. Miller, HY12:Dec 72:2135:9439

Ground-Water Hydraulics in Aquifer Management, Eduardo Aguado and Irwin Remson, HY1:Jan 74:103:10287

Ground Water Management-A Progress Report, Jack J. Coe, IR1:Mar 71:149:7971

Ground-Water Quality Study, Nikolas F. White and Daniel K. Sunada, IR3:Sept 74:277:10813

Ground-Water Recharge Strip Basin-Experiment, Richard R. Brock and Abnish C. Amar, HY4:Apr 74:569:10503

Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215

High Plains Irrigation and Texas Water Plan, Dan M. Wells, IR1:Mar 71:123:7960

Hydrogeology of Florida's Largest Citrus Grove, William E. Wilson, IRS:Sept 72:293

Hydrology and Geology of Honolulu Aquifer, David K. Todd and Charles F. Meyer, HY2:Feb 71:233:7910

Identification of Parameters in Finite Leaky Aquifer System, Miguel A. Marino, HY2:Feb 73:319:9567

Influence of Soils on Water Yields, Julius H. Dawes, IAWM:72:85

Invariant Imbedding and Unsteady Ground-Water Flow, Shin Chang and William Wen-Gong Yeh, HY10:Oct 74:1343:10862

Irrigation Development in Bangladesh, Stephen V. Allison and Kazi F. Jalal, IR1:Mar 74:69:10394

Iterative Analysis: Bounded Leaky Artesian Aquifer, S. A. Vanden Berg, IR1:Mar 69:1:6431

Mathematical Model of Leaky Aquifer, Robert Bibby and Daniel K. Sunada, IR3:Sept 71:387:8350

Nonlinear Equation of Unsteady Ground-Water Flow, John C. Bruch, Jr., HY3:Mar 73:395:9589

Numerical Analysis of Free Surface Seepage Problems, Peter W. France, Chandrakant J. Parekh, John C. Peters and Cedric Taylor, IR1:Mar 71:165:7959

Optimal Pumping for Aquifer Dewatering, Eduardo Aguado, Irwin Remson, Mary F. Pikul and Will A. Thomas, HY7:July 74:869:10639

Potable Water Availability on Long Oceanic Islands, Eugene W. Rochester, Jr. and George J. Kriz, SA5:Oct 70:1235:7627

Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687

Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2:June 72:275:8964

Rational Design of Wall Screens, Satya P. Garg and Jagroshan Lal, IR1:Mar 71:131:7969

Role of Ground Water in Texas Water Plan, Richard C. Peckham, IR1:Mar 68:137:5874

Similitude Criteria for Flow from Unconfined Aquifers, Rameshwar D. Verma and Wilfried Brutsaert, HY9:Sept 71:1493:8397

Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598

Subsurfqce Drainage Solutions by Galerkin's Method, Purushottam Dass and Hubert J. Morel-Seytoux, IR1:Mar 74:1:10397

Theoretical Baseflow Curves, Krishan P. Singh, HY6:Nov 69:2029:6905

Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Unconfined Aquifer Seepage by Capillary Flow Theory, Rameshwar D. Verma and Wilfried Brutsaert, HY6:June 70:1331:7363

Unsteady Drawdown in Well Groups, Raymond J. Krizek, Gabor M. Karadi and D. Babu Rao, HY10:Oct 71:1625:8436

Unsteady Free Surface Ground Water Seepage, Rameshwar D. Verma and Wilfried Brutsaert, HY8:Aug 71:1213:8337

Validity of Dupuit-Forchheimer Equation, Willard A. Murray and Peter L. Monkmeyer, HY9:Sept 73:1573:9997

Vertical Recharge of Unconfined Aquifer, Bruce W. Hunt, HY7:July 71:1017:8257

Water-Table Fluctuation in Response to Recharge, Miguel A. Marino, IR2:June 74:117:10582

Arbitration

Delays and Interferences, Albert Foreman, CEWAU:74:163

Archaeology

Debris Accumulation in Ancient and Modern Cities, Charles G. Gunnerson, EE3:June 73:229:9771

Industrial Archaeology - An Avocation for Engineers, Emory L. Kemp, PP4:Oct 73:481:10087

Arch Dams

Measured Deformation Behavior of Glen Canyon Dam, Joe T. Richardson, SU2:Sept 68:149:6097

Survey Control for Concrete Dam Construction, Maynard J. Willis, SU2:Sept 68:169:6099

Trial Load Analyses Confirm Arch Dam Model Tests, Archie A. Stone and Gurmukh S. Sarkaria, PO2:Oct 67:37:5503

Arches

Bifurcation Analyses for Shallow Arches, Clive L. Dym, EM2:Apr 73:287:9649

Buckling of Uniformly Compressed Circular Arches, Cenap Oran and Ronald S. Reagan, EM4:Aug 69:879:6732

Complementary Energy Method for Buckling of Arches, Cenap Oran, EM2:Apr 68:639:5912

Complete Adjustment Method for Analyzing Arch Dams, J. Laginha Serafim, J. Caldeira Rodrigues, Alferdo Portelo and Mario J. Milho, ST8:Aug 70:1711:7492

Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862

Dynamic Buckling of Shallow Arches, Robert E. Fulton and Furman W. Barton, EM3:June 71:865:8214

Effect of Weight on Large Deflections of Arches, J. Stewart Kennedy and Anand S. Aggarwal, EM3:June 71:637:8165

Experimental Study of Lateral Buckling of Arches, Frank J. Tokarz, ST2:Feb 71:545:7893

Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806

Free Vibration of Arches Flexible in Shear, Walter J. Austin and Anestis S. Veletsos, EM4:Aug 73:735:9913

Hardy Cross and the Rise of Numerical Methods, James Michalos, ST3:Mar 72:691:8762

In-Plane Bending and Buckling of Arches, Walter J. Austin, ST5:May 71:1575:8130

Lateral Buckling of Parabolic Arches with Tilting Loads, Shyam N. Shulka and Morris Ojalvo, ST6:June 71:1763:8209

Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72:1161:8922

Lowest Natural Frequency Of Clamped Parabolic Arcs, TN: ST1:Jan 72:407:8619

Model Study on Arching Above Buried Structures, Zvi Getzler, Amos Komornik and Ami Mazurik, SM5:Sept 68:1123:6105

Natural Frequencies of Circular Arches, Joseph A. Wolf, Jr., ST9:Sept 71:2337:8393

Nonlinear Buckling Analysis of Sandwich Arches, Parviz Sharifi and Egor P. Popov, EM5:Oct 71:1397:8417

Shallow Circular Vaults, James F. Dickie and Peter Broughton, EM1:Feb 73:1:9520

Snap-Buckling of Shallow Prestressed Arches, Rodney J. Clifton, EM6:Dec 70:1157:7749

Stability Criteria for Shallow Arches, James F. Dickie and Peter Broughton, EM3:June 71:951:8217

Structural Behavior of Concrete Arch Culvert, Raymond Eugene Davis, ST12:Dec 69:2665:6942

Arching

Horizontal Movements Related to Subsidence, Kenneth L. Lee and Chih-Kang P. Shen, SM1:Jan 69:139:6336

Soil Arching in Slopes, Wen L. Wang and Bing C. Yen, GT1:Jan 74:61:10300

Architects

Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43

Dsc, Development Building: The Team Approach, Jack R. Newville, CE:Dec 72:93

Engineering-Architecture Interprofessional Practice, William H. Wisely, CE:Apr 71:37

Report on Recommended Amendments to AIA General Conditions (A-201), Eleventh Edition, September, 1967, by the Committee on Contract Administration of the Construction Division, Robert D. Rowland, Chmn., CO2:Oct 70:165:7640

Architecture

Architects and Planners — Introduction, M. D. Morris, CEWAU:74:209

Architectural Barriers and the Problems of the Handicapped, Edward H. Noakes, MTI:May 72:51

Architectural Criteria of Tall Buildings in Germany and Europe, Fritz Rafeiner, TB:73:Ia-12-1151

Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079

Architectural Seismic Detailing, State-of-Art Report 3, Ormond Robert Berry, TB:73:Ia-12-1115

Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057

Architectural-Structural Interaction, Summary Report, Gunnar Essunger, TB:73:Ia-12-1163

Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77

Architecture of Tall Buildings, State-of-Art Report 8, Arthur James Mc Arthur, Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199

Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
Better Designs for Man through Teamwork, Training, Research, and Feedback, Calvin W. Taylor, ABS: 71:11
Bibliography on Latticed Structures, Donald R. Sherman, Chmn., ST7:July 72:1545:9055
Century Park Plaza, Welton Becket and Associates, TB:73:C-P-334
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183
Engineering Education and the Origins of Modern Structures, David P. Billington, CE:Jan 69:52
Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
A Game Plan for Interprofessional Collaboration in Engineering and Architecture, William H. Wisely, CE:Oct 71:41
The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41
Impact of Metrication on the Construction Industy, Richard H. Clough, EI3:July 74:225:10646
Interaction Approach in Poland, Stanislaw Kajfasz, TB:73:Ia-12-1149
An Interdisciplinary Graduate Program, Robert Burnham, Volker Hartkopf, Edward M. Krokosky and Irving J. Oppenheim, CEE:Feb 74:1-179
La Defense, Duiliu Sfintesco, TB:73:Ia-1-274
Legal Aspects of Architecture, Engineering, and Construction Process, by Justin Sweet (Book Review), Joseph Kaming, CE:Mar 71:10
Performance Requirements for Fireproofing Materials, Lawrence G. Seigel, EM3:June 74:489: 10598
The Role of the Professional in Architectural Education, David Clarke, CEE:Feb 74:2-202
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Sydney Opera House, O. N. Arup and Gerd J. Zunz, CE:Dec 71:50
Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Unileverhaus, Hentrich - Petschnigg & Partner, TB: 73:C-P-450
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93
Welcoming Remarks at the Tall Buildings Conference, Maurice Cosandey, President, IABSE, TB:73:C-29

Arctic
Basic Construction Principles in Higher Latitudes, Shu-T'ien Li, CO1:Mar 74:33:10399

Arctic Engineering
Basic Construction Principles in Higher Latitudes, Shu-T'ien Li, CO1:Mar 74:33:10399
Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970

Arctic Regions
All-Weather Tanker Terminal for Cook Inlet, Alaska, William S. Gaither and Robert E. Dalton, WW2: May 69:131:6549
Arctic Hangar for Minus 60 Deg F, Ralph Kratz, CE:May 71:72
Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970

Argentina
Bridge Features Cable Stays, Precast Segmental Deck, Herbert B. Rothman and Fu-Kuei Chang, CE:Mar 74:56
Los Nogales Dam - Effectiveness of the Curtain (In Spanish), Carlos A. Micucci, Hugo Scolaro, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II309

Argillite
Northfield Mountain Pumped Storage Project, S. Hale Lull and Antonio Ferreira, PO2:Nov 68:199: 6247

Arizona
Operation and Maintenance of an Irrigation District in an Urbanizing Environment, R. E. Moore, D. L. Weesner and T. M. Sabin, IRS:Sept 72:243
Orthophotoquads for Arizona Land-Use Mapping and Planning, Carl C. Winikka and Samuel A. Morse, Jr., SU1:May 74:1:10525
Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB: Aug 73:427
Rock Stability Analysis at Twin Buttes, Ben L. Seegmiller, RM13:72:511
Slant Drilled Lake Pump Station, Wilbur F. Gaughan and Robert B. Mitchell, EPCE:Aug 74:391
The Tempe Bikeway Study, Elizabeth A. Drake, BP73:Dec 73:297
Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7: July 73:1129:9871
Use of Runoff Forecasting in Reservoir Operations, Thomas T. Wilson, Jr. and Edib Kirdar, IR3:Sept 70:299:7541
Utilization of Sewage Effluent for Irrigation, Leonard C. Halpenny, IR73:Aug 73:575
Valley Center, Welton Becket and Associates, TB: 73:C-P-318
Water Consumption Study for Navajo Plant, Paul Leung and Raymond E. Moore, PO4:Dec 71:749: 8564
Wellton-Mohawk Drainage and the Mexican Salt Problem, Clifford C. Tabor, IR73:Aug 73:285

Arkansas
The Arkansas River Project, Ronald A. Antonino, CE:Dec 69:44

Armoring (Streambed)
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814

Army Research
Emergency Water Disinfection Practice, Surinder K. Kapoor and John T. O'Connor, NSCD:71:179

Artesian Aquifers
Drainage Analysis of a Confining Formation, Leo C. Benz and Eugene J. Doering, IR73:Aug 73:225

Artesian Water
Iterative Analysis: Bounded Leaky Artesian Aquifer, S. A. Vanden Berg, IR1:Mar 69:1:6431

Artesian Wells
Computer Analysis of Flow toward Artesian Wells, Yang H. Huang, TN: HY9:Sept 71:1579:8349
Finite Element Analysis of Flow Toward Artesian Well, Yang H. Huang, TN: HY11:Nov 72:2055: 9311
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964

Artificial Intelligence
Artificial Intelligence Continuum Mechanics, Andrew K.C. Wong and George Bugliarello, EM6:Dec 70: 1239:7779

Artificial Recharge
Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409
Artificial Recharge in Water Resources Management, Marvin J. Dvoracek, IR2:June 71:219:8185

Asbestos Cement
World's Largest Log-Periodic Antenna, Yen H. Dong, ST9:Sept 71:2371:8400

ASCE (Activities)

Are ASCE Dues Too High, Eugene Zwoyer, CE:May 73:43
Breaking New Ground, Oscar S. Bray, PP1:Oct 71:1:8473
Career Guidance, Ross M. Lanius, Jr., EI2:Apr 74:111:10465
A Crtical Review of ASCE's Planning and Policy Process, Thomas C. Kavanagh, EI4:Oct 74:343:10890
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563:9287
Upgrading Student Membership, Carter H. Harrison, Jr., PP1:Jan 73:119:9508

ASCE (Aims and Activities)

ASCE and Social Issues, Oscar S. Bray, CE:May 71:58
ASCE -- Its Role, Function and Activities on the Urban Campus, Joseph Di Sorbo, CEWAU:74:270
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880
Developing Younger Member Communication, Norman L. Buehring, PP3:July 73:321:9876
Goals Established for ASCE Activities by the Committee on Society Objectives, Planning and Organization, Longino A. Woodman, Chmn., CE:Feb 74:39
Let The Spoken For Be Heard, CE:Sept 73:118
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
Some Reflections at Retirement Time, William H. Wisely, CE:Apr 72:45

ASCE (Awards & Prizes)

ASCE Awards and Prizes Given for 1971, CE:Oct 71:53
Boase Award to Gruenwald, CE:Apr 74:80
Commentary, Gerald Palevsky, CEWAU:74:259
Governor Ferre is '71 Hoover Medalist, CE:Feb 72:55
Hydraulicians are Human Too, Hunter Rouse, HY5:May 72:875:8877
More '72 prize winners, CE:Nov 72:77
A National Landmark, Robert E. White, CEWAU:74:32
New York City Hall, Alfred C. Maevis, CEWAU:74:33
Seed Wins Terzaghi Award, CE:Mar 73:59
Seen At The San Francisco Meeting... Karl Terzaghi Award Presented to Harry Bolton Seed, CE:June 73:77
Volpe Receives Washington Award, CE:Mar 73:60
Wilbur to Receive John Fritz Medal, CE:Oct 72:87
'73 Boase Award To Douglas McHenry, CE:Feb 73:71

ASCE (Board of Direction)

Dsc, Bidding Move Overdue, Charles B. Pekor, CE:Mar 72:69
Changed ASCE Membership Requirements Proposed, CE:July 72:68
Goals Established for ASCE Activities by the Committee on Society Objectives, Planning and Organization, Longino A. Woodman, Chmn., CE:Feb 74:39
Rogers Takes Over As District 2 Director, CE:Dec 71:76
Unfinished Business, Arthur J. Fox, Jr., CE:Mar 71:57

ASCE (Civil Engineering)

A Professor Talks About Civil Engineering Education, CE:Aug 72:65

ASCE (Code of Ethics)

The Aftermath of Article Three, William H. Wisely, CE:Jan 72:37
Article Three and the Department of Justice, William H. Wisely, CE:Sept 71:47
ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77
ASCE President's Inaugural Address, John E. Rinne, CE:Jan 73:74
ASCE Signs Consent Decree on Competitive Bidding, Eugene Zwoyer, CE:July 72:37
ASCE to Proceed with Disciplinary Hearings against Those Involved in Agnew Scandal, CE:Jan 74:56
Draft Guide to Turnkey Construction Contracts, CE:Oct 72:52
Is Professional Ethics Dead?, CE:Nov 74:71
The Practice of Foundation Engineering in the Commonwealth of Puerto Rico, Efrahim Murati, 4PCSM:71:II391
Professionalization—and a Relevant Code of Ethics, Charles R. Schrader, EI4:Oct 74:337:10888

ASCE (Committees)

ASCE Seeks Bigger Role in Building Codes, CE:Dec 73:36
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), Norman J. Overbeek, Chmn., PP1:Jan 72:131:8658
Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182
Changed ASCE Membership Requirements Proposed, CE:July 72:68
Committee on Curricula and Accreditation Paper on Proposed New ASCE Policy on Engineering Education (Discussion), Garrett H. Evans, CEE:Feb 74:2-288
Data Retrieval on Thermal Pollution, Fred A. Limpert, CE:Nov 70:53
Guidelines for Employer-Engineer Relationships, CE:July 71:57
National ASCE Drafts Proposed Salary Guidelines, CE:Jan 72:42
New Books On Structural Analysis, CE:Nov 71:70
Professional Papers in Sanitary Engineering, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
A report from the executive director, Eugene Zwoyer, CE:July 74:74

ASCE (Conditions of Practice)

After Agnew: What's Happening in the Profession, Virginia Fairweather, CE:Feb 74:43
After Agnew: What's Happening In The Profession, Virginia Fairweather, CE:Mar 74:52

ASCE (Conferences)

ASCE Tackles Land Use Planning, Kneeland A. Godfrey, Jr., CE:July 74:66
Awards Given At California AMF Conference, CE:Apr 73:93
The Civil Engineer's Role in the Power Industry, Charles F. Beck, EPCE:Aug 74:1
Seen At The San Francisco Meeting... Karl Terzaghi Award Presented to Harry Bolton Seed, CE:June 73:77

ASCE (Education)

ASCE President's Inaugural Address, John E. Rinne, CE:Jan 73:74
Breaking New Ground, Oscar S. Bray, PP1:Oct 71:1:8473
Career Guidance Programs for Minority Youth, Lawrence M. Moy and James E. Roembke, EI3:July 74:207:10691
Civil Engineering Education: A Preparation for Management, John A. Havers, PP1:Sept 70:1:7544
Civil Engineering Faculty Profile (Discussion), James H. Schaub and D. A. Eckler, CEE:Feb 74:2-298
Civil Engineering Practice - Overview and Current Trends, Charles W. Yoder, CEE:Feb 74:2-11
Committee on Curricula and Accreditation Paper on Proposed New ASCE Policy on Engineering Education (Discussion), Garrett H. Evans, CEE:Feb 74:2-288
Current Status of Continuing Education, C. Allen Wortley, CEE:Feb 74:2-66

Education for Public Works Engineering and Proposed ASCE Policy on Engineering Education (Discussion), Donald C. Stone, CEE:Feb 74:2-294
Federal Funds Available to Sections for Minority Programs, Stephen L. Tuttle, CE:Feb 73:66
Feedback from Engineering Practitioners - Summary and Review, Joseph S. Ward, CEE:Feb 74:2-79
Freeman Grant To Lehigh Professor, CE:Sept 73:113
Iraqi Wins Smith Fellowship For '73, CE:Sept 73:113
The Nature of Continuing Education, Alfred C. Ingersoll, CWFE:Mar 71:229
Professional Papers in Sanitary Engineering, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
A Professor Talks About Civil Engineering Education, CE:Aug 72:65
Proposed New ASCE Policy on Engineering Education, by Ad Hoc Subcommittee for Revision of Policy C-37, William W. Moore, Chmn., John L. Rumpf, Leo W. Ruth, James H. Schaub and Ralph H. Wallace, CEE:Feb 74:1-905
Proposed New ASCE Policy on Engineering Education - Role of Technology Graduates (Discussion), Angelo L. Gutierrez, CEE:Feb 74:2-296
Recommendations Concerning Proposed New ASCE Policy on Engineering Education (Discussion), John M. Hayes and Donn E. Hancher, CEE:Feb 74:2-291
Training Minorities for Construction Work, Ewell W. Finley, CE:Mar 72:76
University of Wisconsin Offers Professional Development Degree, John P. Klus and C. Allen Wortley, CE:Jan 72:49

ASCE (Employment Conditions)
Dsc, Taner Umurhan, CE:Oct 72:82
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887
Guideline: Employer—Engineer Relationship, Charles J. Stevens, Chmn., PP4:Oct 72:523:9279
Guidelines for Employer-Engineer Relationships, CE: July 71:57
Pension Bill Nears Passage, CE:May 74:85
Retirement Plan Study, Arnold Olitt, PP1:Sept 70:39:7552

ASCE (Ethics)
After Agnew: What's Happening in the Profession, Virginia Fairweather, CE:Feb 74:43
After Agnew: What's Happening In The Profession, Virginia Fairweather, CE:Mar 74:52
ASCE Drafts Professional Civic Involvement Recommendations, CE:June 74:77
ASCE to Proceed with Disciplinary Hearings against Those Involved in Agnew Scandal, CE:Jan 74:56
Educating Engineers for Professional and Ethical Responsibility (Discussion), William R. Gibbs, CEE:Feb 74:2-305
Educating Engineers for Professional and Ethical Responsibility (Discussion), Dan H. Pletta, CEE: Feb 74:2-305
The Making of a "Pro"—A Faculty Viewpoint, Dan H. Pletta, EI3:July 74:217:10645
Our Signal is Clear, Charles W. Yoder, CE:Sept 74:64
Professionalization—and a Relevant Code of Ethics, Charles R. Schrader, EI4:Oct 74:337:10888
The Public Discussion of the Work of Other Engineers—Ethical or Unethical, Harold H. Wagle, EI1:Jan 74:37:10268
A report from the executive director, Eugene Zwoyer, CE:July 74:74
Some Challenge Posed by Traditional Institutions and Practices, Gene E. Willeke, UWRM:71:61
State of the Society, Oscar S. Bray, PP4:Oct 72:481:9291

ASCE (Executive Director)
Are ASCE Dues Too High, Eugene Zwoyer, CE:May 73:43
ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77
ASCE Signs Consent Decree on Competitive Bidding, Eugene Zwoyer, CE:July 72:37
Executive Director, Eugene Zwoyer, CE:Oct 72:49
A Report from the Executive Director on Membership Dues, Eugene Zwoyer, CE:Dec 72:29

ASCE (Executive Secretary)
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
Some Reflections at Retirement Time, William H. Wisely, CE:Apr 72:45

ASCE (Finance)
Are ASCE Dues Too High, Eugene Zwoyer, CE:May 73:43
Executive Director, Eugene Zwoyer, CE:Oct 72:49
A Report from the Executive Director on Membership Dues, Eugene Zwoyer, CE:Dec 72:29
Thanks For Your Confidence, William H. Wisely, CE:Mar 70:35

ASCE (Foreign Engineering)
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, CEWAU:74:227

ASCE (History)
A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, Neal FitzSimons, Chmn., BDACE:72, 163pp.
Civil Engineering History: An Appraisal, Neal FitzSimons, PP3:July 73:327:9875
Civil Engineers in Urban Planning, Fifty Years of Accomplishment, 1923-1973, Lawrence E. Miller, Chmn., UP2:Nov 74:115:10939
Great Falls Canal and Locks: Civil Engineering Landmark, CE:Nov 72:53

ASCE (Honorary Members)
Camp and Needles, Prominent Engineers, Die, CE: Feb 72:54
Eight Become ASCE Honorary Members, CE:Oct 72:96
Eight Elevated to Honorary Membership, CE:Oct 71:50
E. L. Armstrong Joins Ranks Of ASCE Honorary Members, CE:Oct 73:89
Emil Praeger, ASCE Honorary Member, Dies, CE: Dec 73:81
F. C. Turner Joins Ranks Of ASCE Honorary Members, CE:Oct 73:89
Frank Masters Dies at 90, CE:Apr 74:80
Gibb Gilchrist Dead, CE:Mar 73:98
G. Winter Joins Ranks Of ASCE Honorary Members, CE:Oct 73:90
H. Rouse Joins Ranks Of ASCE Honorary Members, CE:Oct 73:89
New Honorary Members: 1974, CE:Oct 74:93
Park Martin Dead at 84, CE:Oct 72:89
R. M. Whitton Joins Ranks Of ASCE Honorary Members, CE:Oct 73:89
W. H. Wisely Joins Ranks Of ASCE Honorary Members, CE:Oct 73:90
Wynne-Edwards Hon. M., Dies, CE:Oct 74:102

ASCE (Insurance)
Professional Liability Insurance, Paul L. Genecki, PP2:Apr 72:213:8820

ASCE (Joint Activities)
ASCE's Involvement in Pension Concepts, Joseph S. Ward, CE:Sept 73:93
Pension Bill Nears Passage, CE:May 74:85

ASCE (Local Sections)
Blueprint for the New ASCE Year, Samuel S. Baxter, CE:Jan 71:43

California ASCE Sections Prepare Employment Guidelines, George S. Korbay and Ronald P. Gallagher, CE:Jan 72:52
Construction Course for Junior High Schools, Donald G. Lux and Willis E. Ray, CE:May 71:37
Engineering Career Counseling and Education, Ernest C. James and Orville Abbot, CE:Jan 70:71
Former President Hedley Honored, CE:Feb 72:56
Four Freeway Fallacies, San Francisco Section, ASCE Highway Technical Division Task Force, Henry K. Evans, Chairman, CE:Mar 71:72
Fry Honored By Publication, CE:May 73:61
Local Sections and Social Action: How It Stands, Charles Hemming, CE:Nov 70:33
Minority Training Programs Lurch Ahead, Suzy Fisher, CE:Sept 71:68
Unfinished Business, Arthur J. Fox, Jr., CE:Mar 71:57
236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

ASCE (Members)
Armstrong Joins URS, CE:May 73:60
ASCE and Graduate Students: Faculty Advisor's Opinion, Keith Charles Crandall, PP3:July 73:307:9882
ASCE Member Tests Pipeline, CE:Nov 73:85
Camp and Needles, Prominent Engineers, Die, CE:Feb 72:54
CE People: Roads Come To Remote Areas Of Lesotho Thanks To Young CE, CE:Nov 73:87
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880
Clarence Eckel Dies, CE:Feb 73:71
Developing Younger Member Communication, Norman L. Buehring, PP3:July 73:321:9876
Eminent Rotarian, 89, says "get involved", CE:Jan 72:82
Executive Director, Eugene Zwoyer, CE:Oct 72:49
Federal Overseer for Pipeline, CE:Feb 74:91
Former I&D Chairman Honored, CE:Mar 72:90
Former Kentucky Engineering Dean Dies In Florida, CE:Sept 73:117
Frank Marston Dies, CE:Apr 72:68
Fry Honored By Publication, CE:May 73:61
Green Appointed to High Australian Government Post, CE:May 72:94
Hans A. Einstein Dies At 69, CE:Sept 73:116
Hedley Receives Hoover Medal, CE:Dec 73:76
Kimball Dies At 100, CE:June 73:94
Laurits Bjerrum, 54, Dies In London, CE:May 73:90
Martin Kapp dies, CE:Nov 72:84
McHenry, Founder Of RCRC, Dies, CE:Oct 73:98
Mendenhall Named to Presidential Board, CE:Jan 72:86
Noted Traffic Engineer Dies, CE:Nov 73:86
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884
Rogers Takes Over As District 2 Director, CE:Dec 71:76
Sims Named to CE Chair at Rice, CE:Apr 74:82
The Status Of The Associate Member In ASCE, William H. Wisely, CE:Apr 70:41
Support Your Local Student Chapter!, Virginia Fairweather, CE:Oct 74:52
Tschebotarioff Donates Slide Profits to ESL, CE:Dec 74:80
Upgrading Student Membership, Carter H. Harrison, Jr., PP1:Jan 73:119:9508
Walker Reynolds Honored, CE:July 74:97
Wilbur to Receive John Fritz Medal, CE:Oct 72:87
William H. Wisely Retires as ASCE Executive Director, CE:Apr 72:66
Wisely receives medal, CE:Nov 72:79
A. W. Knecht, Well-Known Consultant, Dies, CE:Dec 73:81
Workshops—Foundation of ASCE Grass Roots Strength, Paul A. Kuhn, EI4:Oct 74:289:10842
'73 Boase Award To Douglas McHenry, CE:Feb 73:71

ASCE (Membership)
Changed ASCE Membership Requirements Proposed, CE:July 72:68
Erickson Named Second Boase Award Winner, CE:Feb 72:56
Former President Hedley Honored, CE:Feb 72:56
Peterson Named to Sanitary Post, CE:Feb 72:79
Profile of ASCE Membership, George K. Wadlin, Jr., CE:Jan 72:39
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843

ASCE (National Affairs)
The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66
Dsc, A Proposal for ASCE, Paul J. Theuer, CE:Oct 71:38
Legislative Involvement, Stephen M. Olko, PP4:Oct 72:491:9278
New Election Procedures Proposed, CE:June 74:74
President's Inaugural Address: ASCE, an Action Profile, Charles W. Yoder, CE:Jan 74:66

ASCE (Officers)
ASCE Installs New Officers in Houston, CE:Oct 72:95
ASCE Installs New Officers in St. Louis, CE:Oct 71:48
Charles W. Yoder Becomes ASCE President, CE:Oct 73:87
Charles W. Yoder Nominated for President-Elect, CE:July 72:82
John Rinne Becomes ASCE's 104th President, CE:Oct 72:94
New ASCE Officers Installed in Kansas City: 1974, CE:Oct 74:92
New Election Procedures Proposed, CE:June 74:74
Professional Briefs: Immediate Past President Sam Baxter represented ASCE, CE:Mar 72:86
Sangster Is President-Elect; Other Officers For '74 Elected, CE:Sept 73:110
1974 ASCE Officers Installed In New York, CE:Oct 73:88

ASCE (Outstanding Civil Engineering)
Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885
Great Falls Canal and Locks: Civil Engineering Landmark, CE:Nov 72:53
Dsc, Landmark Designated During Phoenix Meeting, CE:Mar 71:85
Dsc, OCEA Nominations, Milton Maltby, CE:Aug 74:22

ASCE (Policy)
The Alternative to Unionism, William H. Wisely, CE:Feb 71:43
ASCE and Social Issues, Oscar S. Bray, CE:May 71:58
ASCE Signs Consent Decree on Competitive Bidding, Eugene Zwoyer, CE:July 72:37
ASCE's New President Outlines a Suggested Course, Oscar S. Bray, CE:Dec 71:38
The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66

Civil Engineering Education - Goals and Policy: The Practicing Engineer's Viewpoint, Thomas C. Kavanagh, CEE:Feb 74:2-262
Committee on Curricula and Accreditation Paper on Proposed New ASCE Policy on Engineering Education (Discussion), Garrett H. Evans, CEE: Feb 74:2-288
A Crtical Review of ASCE's Planning and Policy Process, Thomas C. Kavanagh, EI4:Oct 74:343: 10890
Developing Younger Member Communication, Norman L. Buehring, PP3:July 73:321:9876
Education for Public Works Engineering and Proposed ASCE Policy on Engineering Education (Discussion), Donald C. Stone, CEE:Feb 74:2-294
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563: 9287
Proposed Environmental Quality Policy for ASCE, Ralph Stone, CWFE:Mar 71:373
Proposed New ASCE Policy on Engineering Education, by Ad Hoc Subcommittee for Revision of Policy C-37, William W. Moore, Chmn., John L. Rumpf, Leo W. Ruth, James H. Schaub and Ralph H. Wallace, CEE:Feb 74:1-905
Proposed New ASCE Policy on Engineering Education - Role of Technology Graduates (Discussion), Angelo L. Gutierrez, CEE:Feb 74:2-296
Recommendations Concerning Proposed New ASCE Policy on Engineering Education (Discussion), John M. Hayes and Donn E. Hancher, CEE:Feb 74:2-291
A report from the executive director, Eugene Zwoyer, CE:July 74:74
Significance of Safety in Civil Engineering Practice, in the Public Interest, by the ASCE Task Committee on Safety Policy, Richard N. Bergstrom, Chmn., EI1:Jan 74:11:10299
Surveyor 1984, B. Austin Barry, EI3:July 74:235: 10658
Training Minorities for Construction Work, Ewell W. Finley, CE:Mar 72:76

ASCE (Presidents)

Annual Address, Samuel S. Baxter, PP1:Oct 71:5: 8466
Antidote for Environmental Hysteria, Samuel S. Baxter, PP1:Jan 72:1:8663
Arthur J. Fox, Jr. Nominated for ASCE President-Elect, CE:July 74:94
ASCE at Midterm or Challenges of 1972, John E. Rinne, CE:July 73:87
ASCE President's Inaugural Address, John E. Rinne, CE:Jan 73:74
ASCE's New President Outlines a Suggested Course, Oscar S. Bray, CE:Dec 71:38
Blueprint for the New ASCE Year, Samuel S. Baxter, CE:Jan 71:43
Challenges for ASCE, Samuel S. Baxter, CE:July 71: 67
Charles W. Yoder Becomes ASCE President, CE:Oct 73:87
Civil Engineering Practice - Overview and Current Trends, Charles W. Yoder, CEE:Feb 74:2-11
President's Annual Address, John E. Rinne, CE:July 73:87
President's Inaugural Address: ASCE, an Action Profile, Charles W. Yoder, CE:Jan 74:66
State of the Society, Oscar S. Bray, PP4:Oct 72:481: 9291
Two Men Nominated For President-Elect William M. Sangster, Official Nominee, CE:July 73:90
Two Men Nominated For President Elect Frank A. Butrico, Nominee By Petition, CE:July 73:90
Views of Candidates for President-Elect: Sangster, CE:July 73:91
Views of Candidates for President-Elect: Butrico, CE: July 73:91
1974 ASCE Officers Installed In New York, CE:Oct 73:88

ASCE (Professional Activities)

ASCE and Social Issues, Oscar S. Bray, CE:May 71: 58
ASCE at Midterm or Challenges of 1972, John E. Rinne, CE:July 73:87
ASCE Legislative Involvement, CE:Oct 73:57
ASCE Minority Programs, Gerald L. Baker, CE:Aug 73:54
ASCE'S Response to the Spencer Proposals, Board of Direction, ASCE, CE:Aug 70:46
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), Norman J. Overbeek, Chmn., PP1: Jan 72:131:8658
Career Guidance Programs for Minority Youth, Lawrence M. Moy and James E. Roembke, EI3: July 74:207:10691
Consulting Firms Tackle Salary Guidelines, Kneeland A. Godfrey, Jr., CE:Aug 73:77
The Critical U.S. Energy Situation, John J. McKetta, PP2:Apr 73:171:9685
A Crtical Review of ASCE's Planning and Policy Process, Thomas C. Kavanagh, EI4:Oct 74:343: 10890
Federal Funds Available to Sections for Minority Programs, Stephen L. Tuttle, CE:Feb 73:66
Guideline: Employer—Engineer Relationship, Charles J. Stevens, Chmn., PP4:Oct 72:523:9279
National ASCE Drafts Proposed Salary Guidelines, CE:Jan 72:42
New Election Procedures Proposed, CE:June 74:74
New Look To ASCE Professional Staff: Bays, CE: Oct 73:57
New Look To ASCE Professional Staff: Whipple, CE:Oct 73:57
President's Annual Address, John E. Rinne, CE:July 73:87
Professionalization—and a Relevant Code of Ethics, Charles R. Schrader, EI4:Oct 74:337:10888
Professional Recognition -- How?, James Gordon Clark, PP2:Apr 72:169:8857
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
Social Responsibilities of ASCE, William H. Wisely, CE:Aug 70:45
236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73: 107:9507

ASCE (Professional Objectives)

ASCE Drafts Professional Civic Involvement Recommendations, CE:June 74:77
Professionalization—and a Relevant Code of Ethics, Charles R. Schrader, EI4:Oct 74:337:10888
Some Reflections at Retirement Time, William H. Wisely, CE:Apr 72:45
Specialty Registration for Engineers, Thomas deS. Furman, CE:Dec 72:32

ASCE (Professional Practice)

After Agnew: What's Happening in the Profession, Virginia Fairweather, CE:Feb 74:43
After Agnew: What's Happening In The Profession, Virginia Fairweather, CE:Mar 74:52
ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77
ASCE President's Inaugural Address, John E. Rinne, CE:Jan 73:74
ASCE Signs Consent Decree on Competitive Bidding, Eugene Zwoyer, CE:July 72:37
ASCE to Proceed with Disciplinary Hearings against Those Involved in Agnew Scandal, CE:Jan 74:56
Draft Guide to Turnkey Construction Contracts, CE: Oct 72:52
Licensure of Planners and Its Effect on Civil Engineers, Kenneth P. Norrie, PP1:Oct 71:161: 8463
Manual 33- Cost Control and Accounting for Civil Engineers, Task Committee on Revision of Manual 33, Committee on Standards of Practice, Professional Practice Division of ASCE, Nomer Gray, Chairman, 1971, 34 pp.

President's Inaugural Address: ASCE, an Action Profile, Charles W. Yoder, CE:Jan 74:66
Professionalization—and a Relevant Code of Ethics, Charles R. Schrader, EI4:Oct 74:337:10888
Professional Recognition -- How?, James Gordon Clark, PP2:Apr 72:169:8857
Significance of Safety in Civil Engineering Practice, in the Public Interest, by the ASCE Task Committee on Safety Policy, Richard N. Bergstrom, Chmn., EI1:Jan 74:11:10299
Specialty Registration for Engineers, Thomas deS. Furman, CE:Dec 72:32

ASCE (Public Affairs Forum)

Guidelines for Engaging in Public Affairs Activities, by the Committee on Public Affairs of the Member Activities Division, James W. McPhillips, Chmn., PP1:Oct 71:167:8480

ASCE (Publications)

Harold T. Larsen, Retired Staff Member, Dies, CE:Apr 71:86
Professional Papers in Sanitary Engineering, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
Upgrading Student Membership, Carter H. Harrison, Jr., PP1:Jan 73:119:9508

ASCE (Public Relations)

The Civil Engineer: Quiet Man or Spokesman?, Hadley Johnson, Jr., PP1:Oct 71:51:8467
Eminent Rotarian, 89, says "get involved", CE:Jan 72:82

ASCE (Registration of Engineers)

Changed ASCE Membership Requirements Proposed, CE:July 72:68
Licensure of Planners and Its Effect on Civil Engineers, Kenneth P. Norrie, PP1:Oct 71:161:8463
Professional Recognition -- How?, James Gordon Clark, PP2:Apr 72:169:8857
Should Registration Involve Politics?, Wesley E. Haynes, CE:May 71:83
Specialty Registration for Engineers, Thomas deS. Furman, CE:Dec 72:32

ASCE (Research)

Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563:9287

ASCE (Salaries and Fees)

ASCE President's Inaugural Address, John E. Rinne, CE:Jan 73:74
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
Consulting Firms Tackle Salary Guidelines, Kneeland A. Godfrey, Jr., CE:Aug 73:77
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
Retirement Starts Now, Ernest W. Fair, CE:Nov 73:77
Which First Higher Fees or Higher Salaries, Cranston Rogers, CE:Aug 73:76
1973 Salary Survey, by the Committee on Employment Conditions of the Department of Professional Activities, Edward A. Bryant, Chmn., EI2:Apr 74:127:10450

ASCE (Sections)

ASCE Drafts Professional Civic Involvement Recommendations, CE:June 74:77
ASCE Involvement in Social Action, Stephen L. Tuttle, EI3:July 74:201:10690
ASCE Seeks Bigger Role in Building Codes, CE:Dec 73:36
Career Guidance, Ross M. Lanius, Jr., EI2:Apr 74:111:10465
Carl E. Nelson Named Manager of Field Services, CE:July 71:75
Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913
An Innovative A.S.C.E Student Chapter Structure, Vincent P. Drnevich, CEE:Feb 74:1-988
Support Your Local Student Chapter!, Virginia Fairweather, CE:Oct 74:52
Workshops—Foundation of ASCE Grass Roots Strength, Paul A. Kuhn, EI4:Oct 74:289:10842

ASCE (Service to Members)

Are ASCE Dues Too High, Eugene Zwoyer, CE:May 73:43
ASCE's Involvement in Pension Concepts, Joseph S. Ward, CE:Sept 73:93
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), Norman J. Overbeek, Chmn., PP1:Jan 72:131:8658

ASCE (Special Activities)

Federal Funds Available to Sections for Minority Programs, Stephen L. Tuttle, CE:Feb 73:66

ASCE (Staff)

After 49 years on the ASCE headquarters staff, Mrs. Ethel S. Colligan recently retired, CE:Sept 72:119
ASCE Employee Retires With 53 Years Of Service, CE:Aug 73:70
ASCE Exhibits Manager, CE:Aug 74:95
ASCE Legislative Involvement, CE:Oct 73:57
Carl E. Nelson Named Manager of Field Services, CE:July 71:75
CE Ad Rep Dies, CE:May 74:91
Cypher Is New CE Ad Manager, CE:Dec 73:80
Engineer-lawyer to ASCE, CE:Aug 72:70
Eugene M. Zwoyer Takes Over as ASCE Executive Director, CE:May 72:66
Farewell to Ben, CE:May 74:93
Hamlin Leaves ASCE Staff For New Job, CE:July 73:95
Harold T. Larsen, Retired Staff Member, Dies, CE:Apr 71:86
Jim Norton, CE Advertising Manager, Retires, CE:Nov 73:83
Miss Bays Added To ASCE Staff, CE:Apr 73:92
New Look To ASCE Professional Staff: Bays, CE:Oct 73:57
New Look To ASCE Professional Staff: Whipple, CE:Oct 73:57
Newman Joins Staff as student Services Manager, CE:Aug 71:72
New Staff Members For Technical Activities: P. A. Roupe, CE:Aug 73:69
New Staff Members For Technical Activities: T. A. Wolfe, CE:Aug 73:69
Phillips Assumes Meetings Post, CE:Sept 73:110
Retirement, CE:Apr 74:81
Staff Men Named Assistant Secretaries, CE:Dec 72:71
Three Staff Men Named Assistant Secretaries, CE:Dec 72:71
Three Staff Men Named Assistant Secretaries, CE:Dec 72:71
Tributes to Wisely, CE:May 72:90
Whipple Joins Expanding Professional Staff, CE:July 73:75
William H. Wisely Retires as ASCE Executive Director, CE:Apr 72:66
William P. Layton Joins ASCE Staff, CE:Apr 71:86
Wisely Takes University Post, CE:July 72:86

ASCE (Student Chapters)

ASCE -- Its Role, Function and Activities on the Urban Campus, Joseph Di Sorbo, CEWAU:74:270
Commentary, Gerald Palevsky, CEWAU:74:259
Commentary, Clifford R. Scudder, Jr., CEWAU:74:263
Education and the Job Market, Lucien Kraner, CEWAU:74:279
Engineering Education -- Introduction, M. D. Morris, CEWAU:74:257

Engineering Students Learn Social Awareness at UMR, Fred Lamar, CE:May 74:54
Four Win ASCE Zone Scholarships: Fennell, CE:Sept 73:112
Four Win ASCE Zone Scholarships: Hurst, CE:Sept 73:112
Four Win ASCE Zone Scholarships: Masucci, CE: Sept 73:112
Four Win ASCE Zone Scholarships: Myers, CE:Sept 73:112
An Innovative A.S.C.E Student Chapter Structure, Vincent P. Drnevich, CEE:Feb 74:1-988
Newman Joins Staff as student Services Manager, CE:Aug 71:72
Purdue Students Tackle Social Projects, David Brenchley, Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83
Role of ASCE Student Chapters in Engineering Education, T. A. Austin and J. J. Valenta, CEE:Feb 74:1-980
Student Assistance for Local Governments, Lansford C. Bell, CEE:Feb 74:1-143
Students Revitalize On-Campus Lake, John G. Gonzales and Paul A. Ferrari, CE:June 71:38
Support Your Local Student Chapter!, Virginia Fairweather, CE:Oct 74:52
Upgrading Student Membership, Carter H. Harrison, Jr., PP1:Jan 73:119:9508
What Graduate Students Want From ASCE, Harold J. Singer, PP3:July 73:313:9881

ASCE (Technical Divisions)
Division name change, CE:Sept 72:112

ASCE (Younger Members)
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), Norman J. Overbeek, Chmn., PP1: Jan 72:131:8658
The Civil Engineer as a Sales Engineer, James M. Dockey, CE:Feb 71:78
Commentary, Allan H. Sample, CEWAU:74:275
Creativity, The Young Engineer's Viewpoint, David R. Antes, CEWAU:74:22
Developing Younger Member Communication, Norman L. Buehring, PP3:July 73:321:9876
Education and the Job Market, Lucien Kraner, CEWAU:74:279
Engineering Education -- Introduction, M. D. Morris, CEWAU:74:257
A Funny Thing Happened On The Way To The Forum, Michael N. Goodkind, CE:Dec 73:79
Organizational Changes To Make The Associate Member Forum More Viable Force, CE:June 73: 100
Professional Development for Consulting Engineers, Gerald L. Baker, PP1:Jan 72:49:8662
Recycling Civil Engineering Education, William K. Johnson, CE:Oct 71:101
Turnkey Contracts for Sewage Treatment Plants?, Steven S. Pinnell, CE:Jan 74:86

(ASCE) Awards & Prizes
Armco Steel Works Features Pollution Control, Charles G. Kramer, CE:June 70:37
Guide for Public Agency Professional Development, Marble J. Hensley, PP1:Sept 70:55:7553

(ASCE) Board of Direction
What's New in Water and Sewer Pipe?, CE:Oct 70: 46

(ASCE) Education
ASCE's Response to the Changing Times, Gerald L. Baker, CE:Feb 70:82

(ASCE) Local Sections
Public Relations and Public Service Papers in the Los Angeles Section, Irvan F. Mendenhall, CE:June 69: 47

(ASCE) Membership
ASCE's Response to the Changing Times, Gerald L. Baker, CE:Feb 70:82

(ASCE) Policy
ASCE's Response to the Changing Times, Gerald L. Baker, CE:Feb 70:82

(ASCE) Presidents
Priorities: Engineering education; ASCE; Pollution Control, Thomas M. Niles, CE:July 70:60

(ASCE) Professional Activities
Black People Call for ASCE Social Action, Ralph E. Spencer, CE:Dec 69:73
Collective Bargaining for Public Employees, Myron D. Calkins, CE:Oct 69:40
Proposed ASCE Professional Organization and Structure, CE:Dec 69:38

Ashes
Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4: Apr 72:311:8817
Constructing Non-Polluting Coal Ash Disposal Sites, Anthony M. Di Gioia, Jr., Robert P. Hayden and James E. Niece, CE:Dec 74:64
One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF: Aug 72:641
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72: 927:9443

Asphalt Emulsions
Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172

Asphalts
Asphalt Paving Technology-Some Current Developments and Trends, Louis L. Monismith, CE:Aug 69:45
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
Bridge Deck Protection and Resurfacing, Roland A. Pettitt, ST4:Apr 70:791:7217
Fatigue Damage of Asphalt under Compound-Loading, James McElvaney and Peter S. Pell, TE3: Aug 74:701:10730
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139
Investigations into Control of Seepage, Walter G. Brusey, IMROD:Sept 73:616
Kneading Compaction of Asphalt Beam Specimens, H. Hong, HW2:Nov 68:179:6231
Pavement Design and Staging for Mayan Roads, Allen F. Lubina and Robert N. Panfill, TE4:Nov 71:651:8516
Pennsylvania Tries Mastic Asphalt Pavement, Dale B. Melott, CE:June 73:56
Permanent Deformation in Asphaltic Materials, Geoffrey E. Blight, TE1:Feb 74:263:10327
Progress in Asphalt Pavement Thickness Design, Alfred W. Maner, CE:Mar 70:39
Runway Overlay Applied Overnight at Toledo Airport, Eugene R. Kasper, CE:Aug 69:58
Significance of Variably Confined Triaxial Testing, John J. Allen and Marshall R. Thompson, TE4:Nov 74:827:10911
Sprayed Asphalt Pavements for Water Harvesting, Lloyd E. Myers, Gary W. Frasier and John R. Griggs, IR3:Sept 67:79:5413
Stone Asphalt Cores Waterproof French Dams, Victorien Lelu, CE:Apr 72:70
Use of Asphalt in Breakwater Construction, K. d'Angremond, H. J. Th. Span, J. van der Weide and A. J. Woestenenk, 12CEC:71:1601
50th Birthday for Asphalt Institute, History of Asphalt and Asphalt Institute, Arvin S. Wellborn, CE:May 69:62

Assessments
Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566

Astronomical Observatories
Structural Aspects of the Lindheimer Astronomical Observatory, S. Hal Iyengar, CE:Mar 69:71

Astronomy
Reliability of Refraction in Polar Astronavigation, Gerald W. Johnson and James L. Clapp, SU2:Nov 71:165:8502
Solar Astronavigation in High Latitudes, Gerald W. Johnson and James L. Clapp, SU1:May 71:27:8139
Systematic Errors in High Latitude Astronavigation, Gerald W. Johnson, TN: SU2:Nov 74:183:10905

Asymmetry
Stability of Asymmetric Structures—Research Needs, Peter F. Adams, ST11:Nov 74:2271:10960
Unsymmetrical Bending of Prestressed Annular Plate, William E. Alzheimer and R. T. Davis, EM4:Aug 68:905:6066

Atmospheric Corrosion
Factors Affecting Durability of Ferrous Metals in the Atmosphere, Francis L. LaQue, ST11:Nov 69:2385:6890

Atmospheric Density
Density Altitude Variations and Runway Length, Thomas B. Davinroy, TE4:Nov 71:591:8512

Atmospheric Models
Statistical Evaluation of Reaeration Prediction Equations, Linfield C. Brown, EE5:Oct 74:1051:10849

Atmospheric Pressure
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
Density Altitude Variations and Runway Length, Thomas B. Davinroy, TE4:Nov 71:591:8512
Evaluation of Barometric Leveling, James D. Gruendler, James L. Clapp and Paul R. Wolf, SU1:Apr 70:1:7195
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Urban Gravity-Vacuum Transit System, Lawrence K. Edwards, TE1:Feb 69:173:6423

At Rest Pressure
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Attenuation
Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534
Characteristics of Open Tube Wave Attenuation System, Efstathios L. Bourodimos and Arthur T. Ippen, WW4:Nov 68:465:6234
Wave Attenuation by Fluid Filled Bags, Harald D. Frederiksen, WW1:Feb 71:73:7874

Attenuators
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747

Atterberg Limits
Properties of Slightly Organic Topsoils, Robert D. Holtz and Raymond J. Krizek, CO1:June 70:29:7358

Attitudes
Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062

Attitude Surveys
Accessibility and Environmental Quality, V. Setty Pendakur and Gerald R. Brown, UP1:Apr 69:43:6518

Attrition (Personnel)
Management System Saves Highway Maintenance Dollars, Forrest E. Crawford, CE:Aug 71:36

Auditoriums
Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800
Wind Loads on Kresge Auditorium and Travelers Building, Francis J. Maher, ST1:Jan 69:1:6330

Auger-Type Footings
Testing Transmission Line Belled Auger Footings, Richard S. Saliman, PES:72:I-1501

Australia
AMP Centre, Peddle, Thorp and Walker, TB:73:C-P-402
Australia Square, Seidler & Associates, TB:73:C-P-418
Bank of New South Wales, Peddle, Thorp and Walker, TB:73:C-P-408
Book Review: Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, Richard W. Bletzacker, CE:June 73:34
Central Square, Fox & Associates, TB:73:C-P-424
City Mutual Building, Seidler & Associates, TB:73:C-P-422
Concrete Production and Placing at Gordon Dam, Tasmania, Henry H. Thomas, ECCD:72:299
Design Developments - Asia & Australia, State-of-Art Report 4, Leonard K. Stevens, TB:73:Ib-7-399
Exchange Centre, Peddle, Thorp and Walker, TB:73:C-P-406
Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002
M.L.C. Centre, Seidler & Associates, TB:73:C-P-426
Nauru House, Perrott, Lyon, Timlock & Kesa, TB:73:C-P-428
Poor Structural Design Brings West Gate Bridge Failure, John J. Kozak and Charles Seim, CE:June 72:47
Review of Steel Design Standards in Australia, State-of-Art Report 4B, Maxwell G. Lay, TB:73:II-13-71
Royal Exchange Building, Peddle, Thorp and Walker, TB:73:C-P-414
Simple Nonlinear Model for Flood Estimation, Russell G. Mein, Eric M. Laurenson and Thomas A. McMahon, HY11:Nov 74:1507:10933
Sydney Opera House, O. N. Arup and Gerd J. Zunz, CE:Dec 71:50
Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793
The Use of Prestressing in Dams in Tasmania, Henry H. Thomas, ECCD:72:287

Austria
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836
The Viennese Subway System, Max Ellinger, TB:73:C-P-269

Autocorrelation
Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72:1343:9119

Automatic Control
Development of Automation on Salt River Project, Henry Shipley, IR2:June 70:151:7373
Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41

Automatic Control Equipment
Rehabilitation of Irrigation System, Ray S. Bennett and Charles F. Lurvey, IRS:Sept 72:151
Some Factors Affecting Control of Flow in a Large Canal System, Johannes J. DeVries and Jaime Amorocho, IRS:Aug 73:329

Automatic Welding
Grand Coulee 3rd Powerplant — Units 22, 23 and 24, James F. Meyers, EPCE:Aug 74:413

Automation

Automated Design of Frame Structures, Dag Kavlie and Johannes Moe, ST1:Jan 71:33:7823
Automated Design Of Statically Indeterminate Frames, Dag Kavlie and Johannes Moe, EC5:70:27
Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795
Automated Optimum Design From Discrete Components, Aldo Cella and Robert D. Logcher, EC5:70:259
Automated Optimum Design from Discrete Components, Aldo Cella and Robert D. Logcher, ST1:Jan 71:175:7845
Automatic Design Of Shell Structures, Peter G. Smith and Edward L. Wilson, EC5:70:289
Automation For Small Irrigation Projects, Theodore E. Mann, IR3:Sept 71:501:8344
Automation in California's State Water Project, Robin R. Reynolds and Welby R. Madsen, PL3: Nov 67:15:5574
Automation of an Existing Irrigation System - Part I, Richard G. Ericsen, IR73:Aug 73:369
Automation of Surface Irrigation Systems, Howard R. Haise and E. Gordon Kruse, IR4:Dec 69:503:6969
BART in Operation—Innovations in Rapid Transit, William A. Bugge, TE2:May 74:335:10522
Combined Sewer Considerations by Philadelphia, Carmen F. Guarino, Joseph V. Radziul and William L. Greene, SA1:Feb 70:1:7050
Computer Controls for Aqueduct Operation, Alfred R. Golze, PL1:Oct 68:19:6145
Current Water Systems Automation Research and Development in the Bureau of Reclamation, Charles A. Calhoun, IR73:Aug 73:353
Efficient Reanalysis of Modified Structures, EC5:70: 619
Experiences with Interactive Computing System, LeRoy T. Boyer and John C. Casson, ST1:Jan 71: 289:7853
External Transportation, State-of-Art Report 9, Roger M. Seitz, TB:73:Ia-1-211
General Introduction, Daniel Brand, UTI:71:5
Illinois Central Suburban Automated Revenue Collection System, Leonard A. West, TE1:Feb 71: 117:7872
Managing System Operations—Central Valley Project, Dan M. Fults and Lawrence F. Hancock, HY10:Oct 74:1419:10886
Mechanical Structures for Farm Irrigation, Allan S. Humpherys, IR4:Dec 69:463:6944
Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299
Novel Features on Lindenwold Line, Richard E. Pinkham, TE2:May 72:367:8892
Optimization of Long-Span Cold-Formed Truss Purlins, Richard T. Douty and James O. Crooker, ST11:Nov 74:2275:10952
Pallet System for Integrating and Automating Urban Transportation, David Gordon Wilson, UTI:71:81
Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900
Planning and Control of Combined Sewerage Systems, William R. Giessner, Robert T. Cockburn, Frank H. Moss, Jr. and Mark E. Noonan, EE4:Aug 74:1013:10744
Plant Performance Using Dissolved Oxygen Control, Joseph F. Roesler, EE5:Oct 74:1069:10841
A Procedure For Automating Aircraft Wing Structural Design, Gary L. Giles, EC5:70:125
Procedure for Automating Aircraft Wing Structural Design, Gary L. Giles, ST1:Jan 71:99:7821
Stands for Automation Achieved by Sprinkling, Frank E. Robinson, IR3:Sept 69:385:6774
StaRRcar Automatic Capsule Transportation, William L. Alden, UTI:71:113
State of the Art-Urban Transportation Systems, Donald O. Eisele, TE3:Aug 69:439:6729
Subsurface Irrigation Easily Automated, Sterling Davis and Sheldon D. Nelson, IR1:Mar 70:47:7135
Tall Buildings: Computerized Bibliography, Committee on Bibliography, TB:73:C-AC10-47
Technique for Interactive Computer Graphics in Design, Richard T. Douty and Sidney Shore, ST1: Jan 71:273:7837
Transportation R&D By Private Enterprise, Robert V. Emling, TE4:Nov 70:591:7668

Automobiles

Automobile Energy Requirements, Eric Hirst, TE4: Nov 74:815:10909
Dsc, Automobile Exhaust Pollutants, James W. Hudson, CE:Nov 70:36
Balanced Highway-Airport Design, Henry K. Evans, TE1:Feb 69:213:6420
Effects and Control of Highway Traffic Noise, James E. Shahan and George W. Kamperman, TE2:May 73:307:9726
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Express Bus Mass Transit, Joseph Barnett, TE2:May 70:133:7256
Four Freeway Fallacies, San Francisco Section, ASCE Highway Technical Division Task Force, Henry K. Evans, Chairman, CE:Mar 71:72
Mini Automobile-shredding Plant for Western Michigan, Charles E. Haltenhoff, CE:Apr 71:55
New Concepts in Urban Parking, John G. Schoon and Herbert S. Levinson, TE3:Aug 74:611:10731
Optimizing Traffic Flow on Existing Street Networks, Wesley La Baugh, TE2:May 71:353:8135
Patterns of Mobility of Working Poor, Arthur Saltzman and Alice E. Kidder, TE3:Aug 74:769: 10760
Plan for Financing Urban Mass Transit Systems, Robert T. Howe, TE2:May 70:219:7286
Salvaging Obsolete Autos: Systems Approach to Materials Recycling, CE:Apr 71:52
Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341
Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2: May 72:285:8914
Will Air Pollution Regulations Change Commuting Patterns?, William D. Ruckelshaus, CE:Sept 71:86

Average Flow

Determining Streamflows from Geomorphic Parameters, John F. Orsborn, IR4:Dec 74:455: 10986

Aviation Safety

General Aviation in Our Transportation System, George P. Coker, ASC73:Mar 73:133

Awards

Medal of Honor for City Planning -- Introduction, M. D. Morris, CEWAU:74:65
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
William Fitts Ryan Award Citation, Thomas J. Colston, CEWAU:74:67

Awards & Prizes

Commentary, Gerald Palevsky, CEWAU:74:259

Axial Compression

Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73: 1283:10207
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107
Post-Buckling of Axially Compressed Plates, Archibald N. Sherbourne and Robert M. Korol, ST10:Oct 72:2223:9239
Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
Tests of Concrete Columns in Torsion, Ganpat S. Pandit and Manak B. Mawal, ST7:July 73:1409: 9850
Time-Dependent Rock Behavior in Uniaxial Compression, W. R. Wawersik, RM14:73:85

Axial Flow

Effect Of Axial Flow On Preforated Pipe Outflow, Fred J. Molz and Reed A. Edwards, TN: HY4:Apr 72:747:8803

Flow Through Annulus with Large Radial Clearance, M. H. Abdul Khader and H. Suresh Rao, HY1:Jan 74:25:10265

Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72:447:8836

Nonlinear Flow in Porous Media by Finite Elements, Raymond Edward Volker, HY6:Nov 69:2093:6927

Axial Load

Axial Load Design for Concrete Filled Steel Tubes, Robert B. Knowles and Robert Park, ST10:Oct 70:2125:7597

Collapse Load Analysis of Frames Considering Axial Forces, M. Z. Cohn and Tariq Rafay, EM4:Aug 74:773:10757

Diagonal Tension Cracking in Concrete Beams with Axial Forces, Alan H. Mattock, ST9:Oct 69:1887:6776

Postbuckling of Column under Distributed Axial Load, Tung-Ming Wang, TN: EM4:Aug 71:1323:8273

Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555

Axisymmetric Flow

Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711

Numerical Solutions to Free-Surface Axisymmetric Flows, Roland W. Jeppson, EM1:Feb 69:1:6381

Azimuth

Evaluation of Antarctic Star Observations, John C. Albright and James L. Clapp, SU2:Sept 68:81:6092

Geodetic Computations by Electronic Computer, Gerald F. Clohecy, SU1:May 71:97:8105

Backfills

Analysis of a High Gravity Retaining Wall, Fred H. Kulhawy, GT74:June 74:159

Building Damage From Expansive Steel Slag Backfill, Carl B. Crawford and Kenneth N. Burn, SM6:Nov 69:1325:6879

Building Damage from Expansive Steel Slag Backfill, Carl B. Crawford and Kenneth N. Burn, PISST:71:235

Density Studies of Cohesive Trench Backfills, Van A. Silver, Henry M. Reitz and Richard C. Huning, TN: SM2:Mar 70:789:7117

Implementation of Foundation Design Criteria, Joseph L. Ehasz, Jr. and M. Temchin, SDNPF:Dec 73:99

New Design Method for Corrugated Steel Pipe, Alma P. Moser and Reynold K. Watkins, CE:June 72:61

Retaining Wall Under Action of Accreted Backfill, Paul P. Christiano and Suradej Chuntranuluck, TN: GT4:Apr 74:471:10454

Structural Behavior of Concrete Arch Culvert, Raymond Eugene Davis, ST12:Dec 69:2665:6942

Structures In Soil Under High Loads, Jay R. Allgood, SM3:Mar 71:565:8006

Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501

Back Pressure

Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73:75:9484

Backwashing

Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72:937:9[illegible]01

Determining Specific Deposit by Backwash Technique, Kou-ying Hsiung, EE2:Apr 74:353:10449

Filter Backwashing Tests and Upflow Equalization, A. Adler Hirsch, SA1:Feb 68:129:5813

Backwater

Backwater Effect of Submerged Sills, Eric J. Schiller, TN: SM11:Nov 72:2059:9311

Bridge Backwater in Wide Valleys, Emmett M. Laursen, HY4:Apr 70:1019:7246

Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799

Computer Determination of Flow Through Bridges, Bill S. Eichert and John Peters, HY7:July 70:1455:7412

Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841

Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831

Flow Analysis of Large Triangular Weit, Donn G. DeCoursey and Bruce J. Blanchard, HY7:July 70:1435:7405

Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114

Survey of Programs for Water-Surface Profiles, Bill S. Eichert, HY2:Feb 70:547:7098

Two-Dimensional Analysis of Backwater at Bridges, J. Thomas Franques and Dannial W. Yannitell, HY3:Mar 74:379:10403

Backwater Profiles

Nonuniform Flow in Flat Rectangular Channels, Kuan M. Yao, HY9:Sept 71:1343:8369

Bacteria

Aerobic and Anaerobic Landfill Stabilization Process, Ralph Stone and Rishab K. Gupta, SA6:Dec 70:1399:7766

Bactericidal Disinfectant Testing by Micromethods, Winfred F. Maline, Theodore F. Wetzler and Lloyd G. Herman, NSCD:71:307

Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718

Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819

Chlorine Disinfection of Low Temperature Waters, Leroy C. Reid, Jr. and Dale A. Carlson, EE2:Apr 74:339:10443

Control of Bacterial Growths in Rapid Sand Filters, John T. O'Connor and Kalyanpur Y. Baliga, SA6:Dec 70:1377:7767

Destruction of Bacteria and Viruses in Seawater, Ralph Mitchell, SA4:Aug 71:425:8299

Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100

Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722

Engineering Considerations in Disinfection, Robert J. Baker, NSCD:71:683

Enteric Disease Criteria for Recreational Waters, John M. Henderson, SA6:Dec 68:1253:6320

Evaluation of Anaerobic Denitrification Processes, Daniel F. Seidel and Ronald W. Crites, SA2:Apr 70:267:7211

Evaluation of Fecal Streptococci Tests for Chlorinated Secondary Sewage Effluents, Shundar Lin, EE2:Apr 74:253:10452

Halogen Action on Bacteria, Viruses, and Protozoa, Cornelius W. Kruse, Yu-Chih Hsu, Annabel C. Griffiths and Richard Stringer, NSCD:71:113

Influence of Summer Use of a Mountain Watershed on Bacterial Water Quality, Quentin D. Skinner, John C. Adams and Paul A. Rechard, IRS:Sept 72:57

Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, NSCD:71:515

Mass Transfer Limitations in Substrate Removal, C. Robert Baillod and William C. Boyle, SA2:Apr 70:525:7239

Persistence of Virus and Bacteria in Seawater, William D. Won and Harold Ross, EE3:June 73:205:9781

Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, NSCD:71:137
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
Response of Activated Sludge to Organic Transient Loadings, Carl E. Adams, Jr. and W. Wesley Eckenfelder, Jr, SA2:Apr 70:333:7205
Salmonellae in Fresh Water Pollution, Edwin E. Geldreich and Dale J. Van Donsel, NSCD:71:495
Sources and Transport of Bacterial Indicators in Rural Streams, Samuel H. Kunkle, IAWM:72:105
Status of Water Disinfection with Iodine, Riley N. Kinman, A. P. Black and W. C. Thomas, Jr., 4NSCD:71:11
Temperature Effects on Microbial Growth in CSTR's, Richard E. Muck and C. P. Leslie Grady, Jr., EE5: Oct 74:1147:10848
Validity of Energy Change as a Growth Parameter, Edward D. Schroeder and Arthur W. Busch, SA2: Apr 68:193:5881
Viability of Long-Storaged Airborne Bacterial Aerosols, Calvin P.C. Poon, SA6:Dec 68:1137:6299
Virus Removal by Diatomaceous Earth Filtration, Malay Chaudhuri, Parviz Amirhor and Richard S. Engelbrecht, EE4:Aug 74:937:10732
Water and Health-Are We Concerned Enough?, Walter A. Lyon, SA5:Oct 70:1147:7595

Bactericides
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, NSCD:71:61

Bacteriology
Bacterial Dieoff in Ponds, Ernst M. Davis and Earnest F. Gloyna, SA1:Feb 72:59:8714
Enteric Disease Criteria for Recreational Waters, John M. Henderson, SA6:Dec 68:1253:6320
Estuary Water Quality and Salmonella, Francis T. Brezenski, NSCD:71:481
Faecal Bacterial Kinetics in Stabilization Ponds, Gerrit v.R. Marais, EE1:Feb 74:119:10323
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, NSCD:71:515
Sources and Transport of Bacterial Indicators in Rural Streams, Samuel H. Kunkle, IAWM:72:105

Baffles
Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71: 2023:8599
Energy Dissipators for Large Culverts, Thomas C. MacDonald, HY6:Nov 69:1941:6893
Filter Backwashing Tests and Upflow Equalization, A. Adler Hirsch, SA1:Feb 68:129:5813
Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093
Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846
Vortex Suppression in Stilling Pond Overflow, Y. R. Reddy and John Pickford, HY11:Nov 74:1685: 10969

Balancing
Load Balancing Analysis of Cable Stayed Bridges, Benjamin E. Lazar, Michael S. Troitsky and Matthew McC. Douglass, ST8:Aug 72:1725:9122

Baling
Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437

Bandwidth
Bandwidth Minimization of Stiffness Matrices, James G. Crose, TN: EM1:Feb 71:163:7858

Bangladesh
Irrigation Development in Bangladesh, Stephen V. Allison and Kazi F. Jalal, IR1:Mar 74:69:10394

Bank Protection (Waterways)
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
Stability Tests of Interlocking Block Revetment, Jay V. Hall, Jr., WW3:Aug 68:331:6079

Banks (Buildings)
Bank of New South Wales, Peddle, Thorp and Walker, TB:73:C-P-408
Brandywine Building, Vincent G. Kling and Partners, TB:73:C-P-386
Central Penn National Bank, Vincent G. Kling and Partners, TB:73:C-P-362
Citizens Fidelity Bank, Welton Becket and Associates, TB:73:C-P-330
First & Merchants National Bank, Welton Becket and Associates, TB:73:C-P-322
First National Bank of Oregon, Ormond Robert Berry, TB:73:C-P-258
First Wisconsin Center, Skidmore, Owings & Merrill, TB:73:C-P-494
Royal Bank Building, M. I. Gilmore, TB:73:C-P-288
Standard Bank Centre (Johannesburg S.A.), Hentrich - Petschnigg & Partner, TB:73:C-P-446
United California Bank, Ormond Robert Berry, TB: 73:C-P-251

Bank Storage
Nonsteady Flow to Surface Reservoir, William Wen-Gong Yeh, HY3:Mar 70:609:7137

Barges
Barge-Coal Handling at A.S. King Generating Plant, Arthur V. Dienhart and Norris R. Fitch, PO3:June 70:299:7322
Barge Transportation-Energizer of Production and Marketing, Braxton B. Carr, WW2:May 69:163: 6559
The Cross-Florida Barge Canal: A Lesson in Ecology, Suzy Fisher, CE:Apr 71:44
Hardinge Bridge Span Repair, Amitabha Ghosal, Jagadish C. Ganguly, Himangsu K. Banerjee and Mahesh P. Kapoor, CO4:Dec 74:631:11034
Innovations in Barge Transportation on Columbia River, W. E. Torget and Rowena Funston, WW2: May 70:411:7290
Multipurpose Land-Water Transfer Facility, C. Adrian Arnold, WW2:May 72:253:8903
Navigation Charting for Inland Waterways, Benjamin O. Holmes, SU1:Oct 69:117:6856
Ocean Tug-Barge Systems, Lawrence R. Glosten, WW2:May 72:243:8868
On Acceleration of Barge Tows, Joseph S. DeSalvo, WW2:May 69:121:6545
A Reel-Type Pipelaying Barge, Paul K. Johnson, CE: Oct 71:45
Replacement-Lock and Dam No. 26: Lock Capacity Procedure and Scope, Anson G. Eickhorst and DuWayne A. Koch, WW1:Feb 70:15:7094
Replacement-Lock and Dam No. 26: Projecting Waterborne Commerce-Inland Navigation, DuWayne A. Koch, WW1:Feb 70:9:7100

Barometers
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1: July 72:93:9053

Barriers
Concrete Median Barrier Safely Redirects Impacting Vehicles, Edwin C. Lokken, CE:Oct 71:77
Concrete Safety Barrier Design, Edwin C. Lokken, TE1:Feb 74:151:10356
Designing Fail-Safe Structures of Highway Safety, Flory J. Tamanini, TE2:May 71:305:8150
Wave Attenuation by Fluid Filled Bags, Harald D. Frederiksen, WW1:Feb 71:73:7874

Bars
Flow-Induced Vibrations of Trashrack Bars, Joseph W. Fortey and Robert F. Tiry, CE:May 72:44
Lateral Vibrations of Plane Curved Bars, Muppidi N. Reddy, ST10:Oct 68:2197:6148

Torsion of Bars of Regular Polygonal Cross Section, Enrique Romanelli, Mario J. Maurizi and Patricio A. Laura, EM2:Apr 72:415:8809

Torsion of Nonhomogeneous Anistropic Bars, Somasundaram Valliappan and V. Pulmano, TN: ST1:Jan 74:286:10264

Transformation of Waves Passing a Submerged Bar, Pierce L. Chandler, Jr. and Robert M. Sorensen, CE13:72:I-385

Upper Bounds in Complementary Energy Method, Cenap Oran, EM4:Aug 71:1093:8289

Bart

BART Demonstration Program, David G. Hammond, TE4:Nov 71:627:8508

BART Rail Transit System Begins Operations, CE: Nov 72:63

Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075

Passenger Design Standards for Bay Area Rapid Transit Stations, Wilmot R. McCutchen, MTI:May 72:197

Subway Construction: Management and Costs, Thomas R. Kuesel, CE:Mar 69:60

Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008

Base Courses

Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240

Problems of Designing Roadway Structures, William Ronald Hudson, TE2:May 69:289:6542

Stabilized Base for Residential Streets, Wesley J. Gallup, CE:May 69:40

Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalarikamary P. George, SM12: Dec 72:1375:9454

Base Flow

Flow Rates in Two-Dimensional, Unsteady, Confined Groundwater Flow, Bruce W. Hunt, HY2:Mar 69: 603:6451

Basins

Oscillations in Harbors with Connected Basins, Jiin-Jen Lee and Fredric Raichlen, WW3:Aug 72:311: 9094

Batching

DASHEVEYOR Application In Concrete Dam Construction, L. G. Janzow and D. F. Evans, II, RCCD:70:297

Ribbon Batch and Conveyor Placing Systems for Concrete Dams, Robert F. Oury, RCCD:70:281

Shotcrete Durability and Strength - A Practical Viewpoint, Jan A. Blanck, SUSS:July 73:320

Bathymetry

Field Study of a Tidal Inlet, Bimini, Bahamas, W. Harrison, R. J. Byrne, J. D. Boon, III and R. W. Moncure, 12CEC:71:1201

Properties of Longshore Bars in the Great Lakes, James H. Saylor and Edward B. Hands, 12CEC:71: 839

Study of Topolobampo's Bay, Mexico, Entrance, Hector Lopez Gutierrez and Daniel Cervantes Castro, 12CEC:71:1151

Batter Piles

Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56

Bauschinger Effect

Inelastic Response for Arbitrary Histories of Loads, Frank Baron and Mahadeva S. Venkatesan, EM3: June 69:763:6634

Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957

Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011

Bayes Theorem

Bidding Models—The Final Resolution of a Controversy, John M. Dixie, CO3:Sept 74:265: 10790

Making Decisions in the Face of Uncertainty, Jack R. Benjamin, IMROD:Sept 73:356

Bays (Topographic Features)

Pump Drainage in Carolina Bays, Coy W. Doty, IR4: Dec 73:465:10244

Tidal Motion in Bays, Omar H. Shemdin and R. M. Forney, 12CEC:71:2225

Use of Crenulate Shaped Bays to Stabilize Coasts, Richard Silvester and Siew-Koon Ho, CE13:72:II-1347

Beach Erosion

Beach Nourishment at Virginia Beach, Virginia, James W. Bunch, 12CEC:71:967

Coastal Sand Management System, Birchard M. Brush, CE13:72:II-1503

Comparison of Model and Beach Scour Patterns, John B. Herbich, 12CEC:71:1281

Field Study of Surathkal Beach, P. Suryaprakasa Rao and P. Kassim, 12CEC:71:1365

Forms of Erosion and Accretion on Cape Cod Beaches, Victor Goldsmith, Joseph M. Colonell and Peter N. Turbide, CE13:72:II-1277

Jamaica Bay Hurricane Barrier, Frank L. Panuzio, 12CEC:71:2069

Laboratory Tests of Longshore Transport, John C. Fairchild, 12CEC:71:867

The Nile Delta Coastal Protection Project, Ismail E. Mobarek, CE13:72:II-1409

An Offshore Beach Nourishment Scheme, Robert A. Dalrymple, 12CEC:71:955

On the Formation of Spiral Beaches, Paul H. LeBlond, CE13:72:II-1331

Rate of Sediment Motion Using Fluorescent Tracer, Abdel-Latif A. Kadib, CE13:72:II-985

Recent History of Erosion at Carolina Beach, N. C., Limberios Vallianos, 12CEC:71:1223

Stochastic Analysis of Beach Profile Data, Choule J. Sonu and Myron H. Young, 12CEC:71:1341

Underwater Mound for the Protection of Durban's Beaches, Johan A. Zwamborn, G. A. W. Fromme and J. B. FitzPatrick, 12CEC:71:975

Velocity Measurement in Waves Using Strain Gauge Technique, Harihar Raman, Viswanatha Sethuraman and I. V. Muralikrishna, WAVES:Sept 74:817

Waves Generated by Large Ships and Small Boats, Madan M. Das and Joe W. Johnson, 12CEC:71: 2281

Beaches

Artificial Beach Nourishment on the German North Sea Coast, Johann Kramer, CE13:72:II-1465

Artificial Nourishment of Copacabana Beach, Daniel Vera-Cruz, CE13:72:II-1451

Beach Behavior, North Shore, Long Island Sound, Robert A. McCabe, WW4:Nov 70:781:7679

Beach Changes and Wave Conditions, New Brunswick, S. Brian McCann and Edward A. Bryant, CE13:72:II-1293

Beach Nourishment at Virginia Beach, Virginia, James W. Bunch, 12CEC:71:967

Bottom Boundary Shear Stresses on a Model Beach, P. G. Teleki and Melvin W. Anderson, 12CEC:71: 269

Braking Wave Setup and Decay on Gentle Slopes, Li-San Hwang and David Divoky, 12CEC:71:377

Breaker Travel and Choice of Design Wave Height, Cyril J. Galvin, Jr., WW2:May 69:175:6569

Calculated Sand Fills and Groin Systems, John Simpson Hale, CE13:72:II-1385

CERC Field Wave Gaging Program, Harold G. Peacock, WAVES:Sept 74:170

Characteristics of Shingle Beaches: The Solution to Some Practical Problems, A. M. Muir Wood, 12CEC:71:1059
The Cleaning of Gravel Beaches Polluted by Oil, E. H. Owens, CE13:72:III-2539
A Comparison of Fluvial and Coastal Similitude, Bernard LeMehaute, 12CEC:71:1077
Comparison of Model and Beach Scour Patterns, John B. Herbich, 12CEC:71:1281
Crater-sink Sand Transfer System, Douglas L. Inman and Roland W. Harris, 12CEC:71:919
Deformation of Rotational Tidal Currents in Shallow Coastal Water, Harald Gohren, 12CEC:71:2147
Determining Nearshore Intergravity Wave Spectra, Joseph N. Suhayda, WAVES:Sept 74:54
The Dynamics of a Coast with a Groyne System, W. T. Bakker, E. H.J. Klein Breteler and A. Roos, 12CEC:71:1001
The Effect of Groynes on Eroded Beaches, W. A. Price and K. W. Tomlinson, 12CEC:71:1053
Equilibrium Conditions in Beach Wave Interactioe, Harihar Raman and John J. Earattupuzha, CE13:72:II-1237
Equilibrium Profiles of Model Beaches, Irvathur Vasudeva Nayak, 12CEC:71:1321
Establishment of a Coastal Setback Line in Florida, James A. Purpura, CE13:72:II-1599
Experiments of Wave Reflexion on Impermeable Slopes, Carlos de Campos Moraes, 12CEC:71:509
Field Study of Surathkal Beach, P. Suryaprakasa Rao and P. Kassim, 12CEC:71:1365
Field Tests on Two Permeable Groynes, W. A. Price, K. W. Tomlinson and D. H. Willis, CE13:72:II-1401
Forms of Erosion and Accretion on Cape Cod Beaches, Victor Goldsmith, Joseph M. Colonell and Peter N. Turbide, CE13:72:II-1277
Hawaiian Beaches, Franciscus Gerritsen, CE13:72:II-1257
Impact of Beach Nourishment on Distribution of *Emerita talpoioa,* the Common Mole Crab, Bruce Hayden and Robert Dolan, WW2:May 74:123:10538
Laboratory Tests of Longshore Transport, John C. Fairchild, 12CEC:71:867
Longshore Transport Computations, Eco W. Bijker, WW4:Nov 71:687:8546
Maximum Breaker Height for Design, J. Richard Weggel, CE13:72:I-419
Measurement of Swash Profile and Orbital Motion on the Beach, Choule J. Sonu, Neal Pettigrew and Rodney G. Fredericks, WAVES:Sept 74:621
Mining The Ocean For Beach Sand, Charles H. Fisher, CEO-II:70:717
Natural Cleaning of Oil Polluted Seashores, Georges Drapeau, CE13:72:III-2547
New Designs for Beach Protection Structures, G. D. Khaskhachikh, G. A. Tsaturiyan and Ya. S. Shulgin, CE13:72:III-1675
On the Formation of Spiral Beaches, Paul H. LeBlond, CE13:72:II-1331
Periodic Waves Shoaling in Waters over Steeply Sloping Bottoms, Harihara Rama, 12CEC:71:363
Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
Pollution of the Marine Environment by Oig, Ralph L. Rhodes, CEO-II:70:1211
Predicting Changes in the Plan Shape of Beaches, W. A. Price, K. W. Tomlinson and D. H. Willis, CE13:72:II-1321
Problems of Oil Pollution on Coastal Waters and Beaches, Uwe Carow, CE13:72:III-2533
Proposed Santa Monica Causeway Project, James W. Dunham, WW4:Nov 68:425:6219
Recent History of Erosion at Carolina Beach, N. C., Limberios Vallianos, 12CEC:71:1223
Shoaling of Finite Amplitude Long Waves on a Beach of Constant Slope, Yuichi Iwagaki and Tetsuo Sakai, CE13:72:I-347
Shoaling of Finite-Amplitude Waves on Plane Beaches, Robert K. C. Chan and Robert L. Street, 12CEC:71:345
Shoaling of Solitary Waves on Small Slopes, Frederick E. Camfield and Robert L. Street, WW1:Feb 69:1:6380
Standing Waves in Front of a Sloping Dike, Nobuo Shuto, CE13:72:III-1629
Stochastic Analysis of Beach Profile Data, Choule J. Sonu and Myron H. Young, 12CEC:71:1341
Study of Durban Harbor Silting and Beach Erosion, Jan Malan Jordaan, Jr., 12CEC:71:1097
Surface Shear Waves, D. Howell Peregrine, HY9:Sept 74:1215:10809
Systematic Study of Coastal Erosion and Defence Works in the Southwest Coast of India, N. S. Moni, CE13:72:II-1427
Underwater Mound for the Protection of Durban's Beaches, Johan A. Zwamborn, G. A. W. Fromme and J. B. FitzPatrick, 12CEC:71:975
Variation of Longshore Current Across the Surf Zone, Edward B. Thornton, 12CEC:71:291
Velocity Fields in the Wave Breaker Zone, M. D. Adeyemo, 12CEC:71:435
Velocity Measurement in Waves Using Strain Gauge Technique, Harihar Raman, Viswanatha Sethuraman and I. V. Muralikrishna, WAVES:Sept 74:817

Beach Nourishment

Artificial Beach Nourishment on the German North Sea Coast, Johann Kramer, CE13:72:II-1465
Artificial Nourishment of Copacabana Beach, Daniel Vera-Cruz, CE13:72:II-1451
Beach Nourishment at Virginia Beach, Virginia, James W. Bunch, 12CEC:71:967
Impact of Beach Nourishment on Distribution of *Emerita talpoioa,* the Common Mole Crab, Bruce Hayden and Robert Dolan, WW2:May 74:123:10538
Mining The Ocean For Beach Sand, Charles H. Fisher, CEO-II:70:717
An Offshore Beach Nourishment Scheme, Robert A. Dalrymple, 12CEC:71:955
On the Formation of Spiral Beaches, Paul H. LeBlond, CE13:72:II-1331

Beach Ridges

Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367

Beam Columns

Analysis of Unbraced Multistory Steel Rigid Frames, E. Whitman Wright and Edwin H. Gaylord, ST5:May 68:1143:5944
Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771
Approximate Solution of Beam-columns, Wai F. Chen, TN: ST2:Feb 71:743:7861
Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72:1069:8911
Beam-Column Design, Maxwell G. Lay, TB:73:II-15-382
Beam Columns on Elastic Foundations, Sridhara D.N. Murthy and Archibald N. Sherbourne, TN: EM3:June 71:1033:8160
Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6:Dec 72:1353:9441
Beam-to-Column Connections in Non-Sway Frames, J. Witteveen and C. T.J. Bakker, TB:73:II-15-386
Behavior of Continuous Crane Rails, Pavel J. Marek and J. Hartley Daniels, ST4:Ap. 71:1081:8067
Behavior of Elastic-Plastic Frames, Alfred Korn and Theodore V. Galambos, ST5:May 68:1119:5942
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Columns Design in Buildings, State-of-Art Report 1, J. Brozzetti and J. Fourcriat, TB:73:II-16-415
Column Web Strength in Beam-to Column Connections, Wai F. Chen and David E. Newlin, TN: ST9:Sept 73:1978:9968
Concrete Column Design by AASHO Specifications, Hans H. Fickel, ST4:Apr 71:1187:8070

Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3: June 72:595:8968

Design Criteria for H-Columns under Biaxial Loading, Negussie Tebedge and Wai F. Chen, ST3: Mar 74:579:10400

Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595

Economical Design of Prestressed Plate Girder, Miloslav Tochacek and Champa L. Mehta, ST6: June 72:1273:8973

Elastic Lateral Buckling of Portal Frames, Porpan Vacharajittiphan and Nicholas S. Trahair, ST5:May 73:821:9720

Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525

Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851

Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12: Dec 72:2647:9407

Finite Element for Reinforced Concrete Frame Study, Wayne C. Kroenke, Martin J. Gutzwiller and Robert H. Lee, ST7:July 73:1371:9835

Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773

Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353

Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343

Free Vibration of Stochastic Beam-Column, Masaru Hoshiya and Haresh C. Shah, EM4:Aug 71:1239: 8331

General Analysis of Laterally Loaded Beam-Columns, Francois Cheong Siat Moy, ST6:June 74: 1263:10625

General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776

Geometric Nonlinearity in Nonprismatic Members, Cenap Oran, ST7:July 74:1473:10679

Hollow Tubular Beam-Columns in Biaxial Bending, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1399:8094

Inelastic Spatial Stability of Restrained Beam-Columns, Sriramulu Vinnakota and Pentti Aysto, ST11:Nov 74:2235:10919

Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, Ben Kato and Le-Wu Lu, TB:73:II-16-463

Lateral-Torsional Buckling of Bulit-Up Beam-Columns, Hiroshi Yoshida and Susumu Nishida, TN: ST7:July 73:1713:9828

Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439: 10232

Method of Analysis of Laterally Loaded Columns, Francois Cheong Siat Moy, ST5:May 74:953:10548

Nonlinear Formulations of Beam-Column Effects, Frank Baron and Mahadeva S. Venkatesan, ST4: Apr 71:1305:8080

Plastic Analysis and Design, Summary Report, George C. Driscoll, Jr., TB:73:II-15-399

Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255

Preliminary Plastic Design of Tall Steel Frames, M. Bassam El Hafez and Graham H. Powell, ST9:Sept 74:1837:10796

Reinforced Concrete Beam-Column Connection, Eric F.P. Burnett and Rajendra P. Jajoo, ST9:Sept 71: 2315:8395

Reinforced Concrete Beam-Column Joints, Yoichi Higashi and Yoshimasa Owada, TB:73:III-21-259

Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293

Safety Of An Elastic Beam-Column, Colin B. Brown and Roger J. Evans, TN: ST3:Mar 72:805:8755

Simple Interaction Equations for Beam-Columns, Wai F. Chen and Toshio Atsuta, ST7:July 72:1413:9020

Slender Prestressed Concrete Columns, Samuel Aroni, ST4:Apr 68:875:5886

Southwell Plot for Beam-Columns, Robert H. Leicester, EM6:Dec 70:945:7750

Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683

Stiffness Center Method, Hayrettin Kardestuncer, ST7:July 74:1421:10673

Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295: 9545

Strength and Behavior of an Inelastic Hybrid Frame, Peter Arnold, Peter F. Adams and Le-Wu Lu, ST1: Jan 68:243:5759

Tangent Stiffness in Plane Frames, Cenap Oran, ST6: June 73:973:9810

Three-Dimensional Inelastic Subassemblage Design, John F. Lott, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1445:8108

Unbraced Multistory Steel Frames with Wind Load, E. Whitman Wright, ST1:Jan 72:185:8633

Web Buckling Strength of Beam-to-Column Connections, Wai F. Chen and Irving J. Oppenheim, TN: ST1:Jan 74:279:10264

Beams (Structural)

Analysis of Box Girders with Diaphragms, Sana R. Abdel-Samad, Richard N. Wright and Arthur R. Robinson, ST10:Oct 68:2231:6153

Behavior of Prestressed Composite Beams, Ronald S. Reg and Nat W. Krahl, ST6:Dec 67:87:5663

Buckling Analysis of One-Story Frames, Alfred Zweig, ST9:Sept 68:2107:6118

Composite Beams in Torsion, Conrad P. Heins, Jr. and John T.C. Kuo, ST5:May 72:1105:8921

Design of Beams With Web Openings, John E. Bower, ST3:Mar 68:783:5869

Design of Hybrid Steel Beams, Report of Subcommittee 1 on Hybrid Beams and Girders, Joint ASCE-AAHSO Committee on Flexural Members, Charles G. Schilling, ST6:June 68:1397: 5995

Design of Reinforced Concrete Spandrel Beams, Thomas T.C. Hsu and Kenneth T. Burton, ST1:Jan 74:209:10277

Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steel of Joint ASCE-AASHO Committee on Steel Flexural Members, C. E. Eckberg, Jr., ST9:Sept 68:2033:6112

Elastic Shear Analysis of General Prismatic Beams, William E. Mason and Leonard R. Herrmann, EM4:Aug 68:965:6082

Horizontally Curved Girders-State of the Art, Paul F. McManus, Ghulam A. Nasir and Charles G. Culver, ST5:May 69:853:6546

Inelastic Deflections of Beams, Alexander Chajes, ST6:June 68:1549:6012

Laminated Wood Beams Reinforced with Steel Strips, Karl B. Borgin, Gerrit F. Loedolff and Gerald R. Saunders, ST7:July 68:1681:6020

Lateral Stability of Welded Light Trusses, John A. Hribar and William P. Laughlin, ST3:Mar 68:809: 5873

Longitudinally Restrained Reinforced Concrete Beams, German R. Gurfinkel and Chester P. Siess, ST3:Mar 68:709:5859

Mechanisms of Shear Resistance of Concrete Beams, R. C. Fenwick and Thomas Paulay, ST10:Oct 68: 2325:6167

Minimum Weight Proportions for Steel Girders, Edward C. Holt and Gary L. Heithecker, ST10:Oct 69:2205:6838

Optimum Beam Layout for Large Areas, Paul Grundy, ST8:Aug 71:2085:8304

Plastic Analysis of Transversely Loaded Frames, Neil Jackson, ST8:Aug 71:2047:8284

Simulated Seismic Loading of Spandrel Beams, Thomas Paulay, ST9:Sept 71:2407:8365

Structural Analysis of Circular Curved Beamn, Samuel Engel, ST1:Mar 67:221:5099
Structural Engineering Research in Wood, Billy Bohannan, ST2:Feb 68:403:5784
Tests on Composite Beams with Cellular Deck, Hugh Robinson, ST4:Aug 67:139:5391
Torsional Strength of Prestressed Concrete Beams, H. Roger Woodhead and Arthur E. McMullen, ST5: May 74:881:10545

Beams (Supports)

Alternative Approach to Light-Gage Beam Design, James Rhodes and James M. Harvey, ST8:Aug 71: 2119:8327
Analysis of Composite Prestressed Concrete Beams, Vadaporty Jagannadha Rao and Walter H. Dilger, ST10:Oct 74:2109:10850
Anchor Zone Stresses in Prestressed and Concrete Beams, Kashi T. Sundara Raja Iyengar, Raja Sundara and Mandanapalli K. Prabhakara, ST3:Mar 71:807:7961
Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73: 1283:10207
At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73: 72
Beam Buckling by Finite Element Procedure, C. Philip Johnson and Kenneth M. Will, ST3:Mar 74: 669:10432
Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
Beams on Discrete, Nonlinear Elastic Supports, Aylmer P. Cheng and Howard L. Furr, ST11:Nov 69:2335:6873
Beam-To-Girder Connections, Vincent R. Cartelli, TB:73:II-15-371
Behavior of Composite-Beam to Column Joints, J. Hartley Daniels, Geoffrey D. Kroll and John W. Fisher, ST3:Mar 70:671:7173
Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626
Behavior of Fiber Glass Reinforced Concrete Beams, Edward G. Nawy, Gary E. Neuwerth and Charles J. Phillips, ST9:Sept 71:2203:8353
Behavior of Howe, Pratt, and Warren Trusses, John D. Renton, ST2:Feb 69:183:6388
Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800
Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
Bonded Wood-Concrete T-Beams, George Pincus, ST10:Oct 69:2265:6842
Box Girder Model Studies, Dennis E. Myers and Peter B. Cooper, ST12:Dec 69:2845:6966
Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812
Buckling of Columns with Random Initial Displacements, Michael C. Bernard and John L. Bogdanoff, EM3:June 71:755:8194
Buckling of Composite Beams in Negative Bending, Sumio Hamada and Jack Longworth, ST11:Nov 74: 2205:10917
Buckling of Continuously Supported Beams, Arnold D. Kerr, EM1:Feb 69:247:6422
Buckling of Finite Beams in Elastic Continuum, Madhira Radha Madhav and Edward H. Davis, EM6:Dec 74:1227:11033
Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903
Buckling of Naturally Curved and Twisted Beams, Irving U. Ojalvo and Malcolm Newman, EM5:Oct 68:1067:6156
Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437
Collapse of Curved Reinforced Concrete Beams, Ian J. Jordaan, Magdi M. A. Khalifa and Arthur E. McMullen, ST11:Nov 74:2255:10951
Column Instability Under Weight and Follower Loads, David J. McGill, EM3:June 71:629:8196
Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238
Concrete Beams in Bending, Torsion and Shear, Arthur E. McMullen and Joseph Warwaruk, ST5: May 70:885:7270
Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655
Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774
Coupling Beams of Reinforced Concrete Shear Walls, Thomas Paulay, ST3:Mar 71:843:7984
Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72: 2663:9423
Creep and Shrinkage in Reinforced Concrete Beams, Tuck Wah Leong and Robert F. Warner, ST3:Mar 70:509:7150
Creep Deflection of Reinforced Concrete Beams, Charles A. Miller and Sidney A. Guralnick, ST12: Dec 70:2625:7768
Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790
Deep Beam on Statically Indeterminate Supports, Prabhakara Bhatt, EM4:Aug 73:793:9902
Deflection Analysis for Shakedown, Dale G. Eyre and Theodore V. Galambos, ST7:July 70:1359:7403
Deflections of Lightweight Reinforced Concrete Beams, John L. Heiman, TB:73:III-25-811
Deflection Stability of Beams under Repeated Loads, Yuhshi Fukumoto and Hiroshi Yoshida, ST7:July 69:1443:6668
Deformations of Geometrically Imperfect Beams, Nicholas S. Trahair, ST7:July 69:1475:6682
Design Aid for Deflection Calculation for a Uniformly Loaded Flexural Member, Thomas M. Chura, CE:Feb 72:75
Design Aids for Beams with Circular Eccentric Web Holes, Richard G. Redwood and Peter W. Chan, ST2:Feb 74:297:10331
Design of Beams With Off-Center Web Openings, Terry R. Douglas and Samuel C. Gambrell, Jr., ST6:June 74:1189:10611
Design of Cylindrical Concrete Water Tanks, Harvey C. Olander, ST5:May 70:947:7303
Design of Laterally Unsupported Beams, G. Donald Brandt, CE:Feb 74:60
Design of Laterally Unsupported Timber Beams, David W. Fowler, ST3:Mar 71:881:7995
Diagonal Tension Cracking in Concrete Beams with Axial Forces, Alan H. Mattock, ST9:Oct 69:1887: 6776
Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73: 655:9653
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72: 2541:9345
Effects of Creep and Shrinkage on Prestressed Concrete Columns, William J. Wilhelm and Paul Zia, ST10:Oct 70:2103:7614
Eigenvalue Analysis of Structures by Folding Force, Itio Hirai and Torazo Yoshimura, EM6:Dec 70: 1081:7728
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elastic Behavior of Biaxially Loaded Steel Columns, Ishwar C. Syal and Satya S. Sharma, ST3:Mar 70: 469:7143
Elastic Lateral Buckling of Stepped I-Beams, Nicholas S. Trahair and Sritawat Kitipornchai, ST10:Oct 71:2535:8445
Elastic Stability of Continuous Beams, Nicholas S. Trahair, ST6:June 69:1295:6632
Elastic Stability of Tapered I-Beams, Sritawat Kitipornchai and Nicholas S. Trahair, ST3:Mar 72: 713:8775
Elasto-Plastic Deflection of Tubular Beams, Leon Ru-Liang Wang, ST2:Feb 69:159:6379

Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898
Estimating Beam Size, Adrian J. Perez, CE:Dec 71: 67
Euler Beams on a Two Parameter Foundation Model, Milton E. Harr, John L. Davidson, Da-Min Ho, Luis E. Pombo, S. V. Ramaswamy and John C. Rosner, SM4:July 69:933:6651
Experiments on Nonsway Structural Subassemblages, Eugene L. Sheninger and Le-Wu Lu, ST3:Mar 70: 573:7159
Failure Probabilities of Reinforced Concrete Beams, James F. Costello and Kuang-han Chu, ST10:Oct 69:2281:6848
Fatigue Strength of Rolled and Welded Steel, Manfred A. Hirt, Ben T. Yen and John W. Fisher, ST7:July 71:1897:8238
Fatigue Tests of Beams with Rectangular Web Holes, Ronald W. Frost and Robert E. Leffler, SM2:Feb 71:509:7913
Fatigue Tests of Prestressed Concrete I-Beams, John M. Hanson, Cornie L. Hulsbos and David A. VanHorn, ST11:Nov 70:2443:7705
Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12: Dec 72:2647:9407
Finite Element Analysis of Concrete Beams, Chung-Hyun Nam and Charles G. Salmon, ST12:Dec 74: 2419:11016
Finite Element Analysis of Concrete Beams, Chung-Hyun Nam and Charles G. Salmon, ST12:Dec 74: 2419:11016
Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081
Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353
Flexural Members with Confined Concrete, Dudley Charles Kent and Robert Park, ST7:July 71:1969: 8243
Forced Vibration of Class of Nonlinear Dissipative Beams, Sami F. Masri, EM4:Aug 73:669:9959
Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343
Free Vibration Of Horizontally Curved Beams, Sidney Shore and Swapan Chaudhuri, TN: ST3:Mar 72:793:8755
Free Vibration of Two-Dimensional Frameworks, Karl-Robert Leimbach and Donald McDonald, ST2: Feb 70:267:7082
Frequencies of Beams with Elastic Warping Restraint, Paul P. Christiano and Larry Salmela, TN: ST6:June 71:1835:8164 .
Fundamental Frequencies of Axially Moving Beams, Chien-Yung Wei and John Peddieson, Jr., TN: EM4:Aug 71:1343:8273
Further Studies of Inelastic Beam-Column Problem, Wai F. Chen, ST2:Feb 71:529:7922
General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103
General Solution of Inelastic Beam-Column Problem, Wai F. Chen, EM4:Aug 70:421:7482
Higher Mode Buckling of Bimetallic Beam, David Burgreen and David Regal, EM4:Aug 71:1045:8305
Hollow Tubular Beam-Columns in Biaxial Bending, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1399:8094
Horizontally Curved Bridges Subject to Moving Load, Paul P. Christiano and Charles G. Culver, ST8:Aug 69:1615:6713
Inelastic Bar Subjected To Thrust and Cyclic Bending, Ben Kato and Hiroshi Akiyama, ST1:Jan 69:33:6335
Inelastic Bending of Wood Beams, Borislav D. Zakic, ST10:Oct 73:2079:10071
Inelastic Flexural-Torsional Buckling, Alois J. Hartmann, EM4:Aug 71:1103:8294
Inelastic Lateral Buckling of Restrained Beams, Hiroshi Yoshida and Yoshihiro Imoto, EM2:Apr 73:343:9666
Inelastic Shear Deflection of Steel Beams, Dale G. Eyre, ST10:Oct 73:1985:10052
Inelastic Stability of Beams under Biaxial Bending, Chesada Kasemset, Fumio Nishino and Seng-Lip Lee, EM5:Oct 74:965:10881
Influence Lines for Beams on Elastic Supports, Edward N. Wilson, TN: ST6:June 74:1325:10596
Dsc, Inspector vs. Quality Engineer, John P. Jackson, CE:Oct 70:52
Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247
Lateral Buckling of Constrained Beams, Thomas G. Morrison, ST3:Mar 72:741:8793
Lateral Stability of Beam and Deck Structure, Pa[illegible] M. Jenkinson and John J. Zahn, ST3:Mar 72:5[illegible] 8786
Lateral Stability of Wood Beam-and-Deck Sy[illegible]ems, John J. Zahn, ST7:July 73:1391:9829
Layered Beam Analysis, George W. Swift and Robert A. Heller, EM2:Apr 74:267:10484
Local Plastic Buckling of A514 Steel Members, John F. McDermott, ST9:Sept 69:1837:6761
Lumped Parameter Beams Based on Impedance Methods, Vernon H. Neubert, Hong T. Hahn and Hae Lee, EM1:Feb 70:69:7099
Machine Stress Rated Lumber: Challenge to Design, William L. Galligan and Delos V. Snodgrass, ST12: Dec 70:2639:7772
Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094
Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671
Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
Nonlinear Beam and Plate Elements, Jimmy H. Smith, ST3:Mar 72:553:8768
Nonlinear Bending of Bars, Imamuddin Khwaja, TN: EM1:Feb 71:137:7858
Nonuniform Torsion of Composite Beams, Paul F. McManus and Charles G. Culver, ST6:June 69: 1233:6623
Nonuniform Torsion of Steel Beams in Inelastic Range, Charles R. Farwell and Theodore V. Galambos, ST12:Dec 69:2813:6964
On the Accuracy of Timoshenko's Beam Theory, G. Richard Cowper, EM6:Dec 68:1447:6285
Optimal Structure Design by Dynamic Programmino, Andrew C. Palmer, ST8:Aug 68:1887:6057
Optimization of Long-Span Cold-Formed Truss Purlins, Richard T. Douty and James O. Crooker, ST11:Nov 74:2275:10952
Optimum Design of Prestressed Concrete Members, Chen H. Wang, ST7:July 70:1525:7422
Optimum Proportions for I-Shaped Beams, Charles G. Schilling, ST12:Dec 74:2385:11007
Penetration of Beam on Plastic Foundation, Robert J. Green, TN: EM6:Dec 71:1769:8559
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181
Photoelastic Study of Beams on Elastic Foundations, August J. Durelli, Vincent J. Parks, Carson K.C. Mok and Han-Chow Lee, ST8:Aug 69:1713:6739
Plastic Behavior of Beams with Reinforced Holes, Judith G. Congdon and Richard G. Redwood, ST9: Sept 70:1933:7561
Plastic Bending of A514 Steel Beams, John F. McDermott, ST9:Sept 69:1851:6762
Point-Matching Analysis of Curved Timber Beams, Ricardo O. Foschi, ST1:Jan 70:35:6998
Post-Buckling Behavior of Determinate Beams, Scott T. Woolcock and Nicholas S. Trahair, EM2:Apr 74: 151:10471
Post Lateral Buckling Behavior of Beams, Gerald Zamost and E. Russell Johnston, Jr., EM4:Aug 71: 1133:8313
Post-Local-Buckling Behavior of Continuous Beams, Shien T. Wang and Sheng S. Yeh, ST6:June 74: 1169:10595
Preliminary Plastic Design of Tall Steel Frames, M. Bassam El Hafez and Graham H. Powell, ST9:Sept 74:1837:10796

Prestressed Beams in Torsion, Bending, and Shear, Robert L. Henry and Paul Zia, ST5:May 74:933: 10560

Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301: 9594

Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906

Rapid Determination of Evenly Distributed Load Effects, Edward L. Rushbrook, Jr., CE:Oct 70:52

Rational Design of Light Gage Beams, Jeffrey L. Bluestein and Atle Gjelsvik, ST7:July 70:1535:7421

Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1: Jan 73:183:9501

Reinforced Concrete Beam-Column Connection, Eric F.P. Burnett and Rajendra P. Jajoo, ST9:Sept 71: 2315:8395

Reinforced Concrete Beams Under Repeated Loads, Walter M. Ruiz and George Winter, ST6:June 69: 1189:6601

Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011

Reinforcement for Torque in Spandrel L-Beams, Umakanta Behera, K. S. Rajagopalan and Phil M. Ferguson, ST2:Feb 70:371:7103

Research On Steel-Concrete Composite Beams, R. Paul Johnson, ST3:Mar 70:445:7122

Residual Stresses in Curved Laminated Wood Beams, John J. Zahn, ST12:Dec 69:2873:6977

Response of Nonlinear Beams and Plates to Ponding, Ahmed E. Salama and Martin L. Moody, EM1:Feb 69:195:6402

Response of Nonlinear Beam to Random Excitation, Henry R. Busby, Jr. and Victor I. Weingarten, EM1:Feb 73:55:9530

Response of Viscoelastically Restrained Beam, Frank A. Moughton, ST7:July 73:1607:9869

Restrained Elastic Beam-Columns, Nicholas S. Trahair, ST12:Dec 69:2641:6941

Rotational Capacity of Prestressed Concrete Beams, Alfred G. Bishara and Gurcharan S. Brar, ST9:Sept 74:1883:10821

Rotation Capacity of Beams Under Moment Gradient, A. F. Lukey and Peter F. Adams, ST6: June 69:1173:6599

School Buildings Feature Polygon Shape, German R. Gurfinkel, CE:Dec 70:31

Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt, James R. Goodman and Marvin E. Criswell, ST1:Jan 74:11:10274

Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595

Shakedown Tests on Steel Bars and Beams, Dale G. Eyre and Theodore V. Galambos, ST7:July 70: 1287:7395

Shear Strength of Large Beams, Howard P.J. Taylor, ST11:Nov 72:2473:9329

Shear Strength of Post-Tensioned Daps in Prestressed Concrete Beams, Ali A. Hamoudi and Michael K.S. Phang, ST12:Dec 74:2403:11011

Shear Strength of Reinforced Concrete Beams, Bengt B. Broms, ST6:June 69:1339:6636

Southwell Plot for Beam-Columns, Robert H. Leicester, EM6:Dec 70:945:7750

Stability of Monosymmetric Beams and Cantilevers, John M. Anderson and Nicholas S. Trahair, ST1: Jan 72:269:8646

Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51

Static and Dynamic Stability of an Imperfect Beam, Jorn S. Hansen and John Roorda, EM2:Apr 73:271: 9647

Static Model Tests of Curved Girder Bridge, Charles G. Culver and Paul P. Christiano, ST8:Aug 69: 1599:6712

Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449

Stiffness Requirements for Lateral Bracing, Bruce R. Mutton and Nicholas S. Trahair, ST10:Oct 73:2167: 10086

Stirrup Effectiveness in RC Beams with Axial Force, Munther J. Haddadin and Alan H. Mattock, ST9: Sept 71:2277:8394

Strength of Beams or Columns with Buckled Elements, Maurice L. Sharp, TN: ST5:May 70: 1011:7254

Strength of Concrete Filled Steel Tubular Columns, Robert B. Knowles and Robert Park, ST12:Dec 69: 2565:6936

Strength of Square-Tube Connections Under Combined Loads, Roger L. Brockenbrough, ST12: Dec 72:2753:9425

Strength of Steel Columns with Biaxially Eccentric Load, Satya S. Sharma and Edwin H. Gaylord, ST12:Dec 69:2797:6960

Stress Distribution in Castellated Beams, James A. Mandel, Paul J. Brennan, Benjamin A. Wasil and Charles M. Antoni, ST7:July 71:1947:8260

Stresses in Beams Having Holes of Arbitrary Shape, H. Deresiewicz, EM5:Oct 68:1183:6185

Stress Waves at Rigid Right Angle Joint, James A. Mandel, Rajendra K. Mathor and Yuan C. Chang, EM4:Aug 71:1173:8316

Structural Behavior of Thick Cold-Formed Steel Members, Wei-Wen Yu, Victor A.S. Liu and William M. McKinney, ST11:Nov 74:2191:10907

Subassemblage Concept for Tall Frame Analysis, Graham H. Powell and M. Bassam El Hafez, ST8: Aug 74:1611:10739

Suggested Design Guides for Beams with Web Holes, John E. Bower, Chmn., ST11:Nov 71:2707:8536

Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564

Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72: 611:8791

Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687: 9428

Thermal Buckling of a Bimetallic Beam, David Burgreen and Phillip J. Manitt, EM2:Apr 69:421: 6509

Thick Rectangular Beams, Kashi T. Sundara Raja Iyengar, Chuen-Yuan Chandrashekhara and V. K. Sebastian, TN: EM6:Dec 74:1277:10979

Time Dependent Behavior of Concrete Beams, John D. Mozer, Kurt H. Gerstle and Leonard G. Tulin, ST3:Mar 70:597:7157

Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73: 1205:9788

Torsionally Stiff Columns under Eccentric Loads, Donald R. Sherman and Donald E. Lukas, ST2:Feb 70:335:7090

Torsional Strength of Prestressed Concrete Beams, H. Roger Woodhead and Arthur E. McMullen, ST5: May 74:881:10545

Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130

Torsion, Bending and Shear in Prestressed Concrete, Priya R. Mukherjee and Joseph Warwaruk, ST4: Apr 71:1063:8041

Torsion-Bending-Shear Interaction for Concrete Beams, Lennart Elfgren, Inge Karlsson and Anders Losberg, ST8:Aug 74:1657:10749

Torsion in Beams with Open Sections, Kuang-Han Chu and Robert B. Johnson, ST7:July 74:1397: 10666

Torsion of Nonprismatic Beams of Open Section, Donald R. Evick and Conrad P. Heins, Jr., ST12: Dec 72:2769:9453

Torsion, Shear, and Bending on Stirruped L-Beams, Umakanta Behera and Phil M Ferguson, ST7:July 70:1271:7419

Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209

Two Nonlinear Beams with Definitions of Ductility, Melbourne F. Giberson, ST2:Feb 69:137:6377

Two-Way Slab System with Beams, Phil M. Ferguson, CE:Aug 74:90

Ultimate Load Tests on Braced Multistory Frames, Joseph A. Yura and Le-Wu Lu, ST10:Oct 69:2243:6840
Ultimate Torque of Rectangular Reinforced Concrete Beams, Ganpat S. Pandit, TN: ST9:Sept 70:1987:7503
Variational Approach to Beams on Elastic Foundations, N. S. V. Kameswara Rao, Y. C. Das and M. Anandakrishnan, EM2:Apr 71:271:8034
Vibration of Circular Plates with Edge-Beams, Richard J. Stuart and John F. Carney, III, TN: EM4:Aug 73:907:9898
Vibration of Flanged Beams and Panels, Satya P. Keshava, TN: ST7:July 73:1681:9828
Vibration of Structures Having Changing Boundaries, Manuel A. G. Silva and Leon M. Keer, EM3:June 71:1007:8220
Vibration of Support Excited Tubes in Coaxial Flow, Stanley A. Knudson and Gerald S. Smith, EM6: Dec 70:1039:7775
Vibrations of Stacks Supported on Steel Structures, Anthony Morrone, ST12:Dec 69:2831:6965
Warping and Distortion at I-Section Joints, Porpan Vacharajittiphan and Nicholas S. Trahair, ST3:Mar 74:547:10390
What Do We Know About Torsion in Concrete Members, Paul Zia, ST6:June 70:1185:7372

Bearing Capacity

Analysis of Circular Footings on Layered Soils, Chandrakant S. Desai and Lymon C. Reese, SM4: July 70:1289:7408
Analysis of Load-Bearing Fills over Soft Subsoils, James K. Mitchell and William S. Gardner, SM11: Nov 71:1549:8522
Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480
Analysis of Undrained Behavior of Loads on Clay, Richard M. Simon, John T. Christian and Charles C. Ladd, GT74:June 74:51
Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187:9338
Axial Capacity, Lymon C. Reese, PES:73:III-201
Bearing Capacities by Plasticity Theory, Hon-Yim Ko and Ronald F. Scott, SM1:Jan 73:25:9497
Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73:433:9816
Bearing Capacity Factors for Inclined Loads, N. S.V. Kameswara Rao and S. Krishnamurthy, TN: SM11: Nov 72:1286:9312
Bearing Capacity of Anisotropic Cohesive Soil, Edward H. Davis and John T. Christian, SM5:May 71:753:8146
Bearing Capacity of Concrete Block or Rocks, Wai F. Chen and Daniel C. Drucker, EM4:Aug 69:955:6742
Bearing Capacity of Concrete Blocks, Wai F. Chen and Sergio Couarrubias, EM5:Oct 71:1413:8421
Bearing Capacity of Eccentrically Loaded Footings, Shamsher Prakash and Swami Saran, SM1:Jan 71:95:7814
Bearing Capacity of Footings on Anisotropic Soils, Annapareddy Siva Reddy and Ramanathan J. Srinivasan, SM6:Nov 70:1967:7677
Bearing Capacity of Foundation on Sand, Assad Abdul-Baki and Lewis A. Beik, SM2:Mar 70:545:7158
Bearing Capacity of Partly Saturated Soils, Annapareddy Siva Reddy and Gavidi Mogaliah, TN: SM6:Nov 70:2175:7646
Bearing Capacity Theory From Experimental Results, A. Verghese Chummar, SM12:Dec 72:1311:9411
Bearing Strength of Concrete--Geometric Variations, Sanat Kumar Niyogi, ST7:July 73:1471:9853
Behavior of Bored Piles in Sand, Fadlo T. Touma and Lymon C. Reese, GT7:July 74:749:10651
Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71:1183:8372
Collapse of Fargo Grain Elevator, Reymond L. Nordlund and Don U. Deere, SM2:Mar 70:585:7172
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
Concrete Bearing Strength—Support, Mix, Size Effect, Sanat Kumar Niyogi, ST8:Aug 74:1685:10765
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785:10154
Elastic-Plastic Foundation Model for Punch-Shear Failure, Warren J. Rhines, SM3:May 69:819:6560
Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, TN: SM9:Sept 72:987:9161
Experiments in Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, SM11:Nov 73:957:10161
Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650
Foundation Failure of the Vankleek Hill Tower Silo, Michael Bozozuk, PES:72:I-885
Geotechnical Studies for La Angostura Project, Mexico, Raul J. Marsal, EFFD:Mar 74:425
High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985
Initial Settlement of Structures on Clay, David J. D'Appolonia, Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438
In-Situ Determination Of Seafloor Bearing Capacity, T. R. Kretschmer and H. J. Lee, CEO-II:70:679
Joints, Precast Panel Buildings, State-of-Art Report 2, Bohdan Lewicki and Adrian Pauw, TB:73:III-21-171
Lateral Load Capacity of Piles in Sand and Normally Consolidated Clay, Awtar Singh, Richard E-Wei Hu and Robert D. Cousineau, CE:Aug 71:52
Limit Analysis of Plane Problems in Soil Mechanics, John Lysmer, SM4:July 70:1311:7416
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592
Model Investigations of Pile Groups in Sand, Andrzej F. Tejchman, SM2:Feb 73:199:9579
Nomograph for Bearing Capacity, J. Neil Kay, TN: SM1:Jan 71:301:7787
Numerical Design-Analysis for Piles in Sands, Chandrakant S. Desai, GT6:June 74:613:10617
Pile Bearing Capacity -- Prediction Versus Performance, George G. Goble, Frederick K. Walker and Frank Rausche, PES:72:I-1243
Pile Stability, Part 1 -- Elastic Soil, Peter J. Hoadley, GT74:June 74:225
Plastic Analysis of a Plate Sealing a Fluid, Richard H. Lance and David N. Robinson, EM6:Dec 70:1183:7742
Reducing Negative Friction with Bitumen Slip Layers, Alphonsus I. M. Claessen and Endre Horvat, GT8:Aug 74:925:10764
Repair of 7-Story Bearing Wall, Russell S Fling, CO1:July 69:39:6669
Scale and Boundary Effects in Foundation Analysis, James Graham and John Gordon Stuart, SM11:Nov 71:1533:8510
Settlement of Strip Load On Elastic-Plastic Soil, Kaare Hoeg, John T. Christian and Robert V. Whitman, SM2:Mar 68:431:5850
Shape Factors In Bearing Capacity Equation, Leslie L. Karafiath, TN: SM4:July 70:1493:7387
Soil Mechanics and Theorems of Limit Analysis, Wai F. Chen, SM2:Mar 69:493:6450
Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220
Some Load Transfer Data on Caissons in Hard Chicago Clay, Robert D. Holtz and Clyde N. Baker, Jr., PES:72:I-1223
Sustained and Cyclic Loading of Concrete Columns, Jostein Hellesland and Roger Green, ST4:Apr 71:1113:8033
Test Fills to Failure on the Soft Bangkok Clay, Ove Eide and Soren Holmberg, PES:72:I-159
Tests on Instrumented Piles, Ogeechee River Site, Aleksandar Sedmak Vesic, SM2:Mar 70:561:7170

Theoretical Bearing Capacity of Very Shallow Footings, Lawrence A. Larkin, SM6:Nov 68:1347:6258

Torsion-Bending-Shear Interaction for Concrete Beams, Lennart Elfgren, Inge Karlsson and Anders Losberg, ST8:Aug 74:1657:10749

Ultimate Capacity of Single Bolted Angle Connections, John B. Kennedy and George R. Sinclair, ST8:Aug 69:1645:6721

Ultimate Strength of Laterally Loaded Columns, Le-Wu Lu and Hassan Kamalvand, ST6:June 68:1505:6009

Bearing Pads

Elastomeric Bridge Bearings, Charles E. Rejcha, CE:May 72:46

Bearing Piles

Building Settlement on End-Bearing Driven Piles, Amos Komornik, Gdalyah Wiseman and Joseph G. Zeitlen, PES:72:I-1135

Reducing Negative Friction with Bitumen Slip Layers, Alphonsus I. M. Claessen and Endre Horvat, GT8:Aug 74:925:10764

Bearing Pressure

Footblock Design, Weldon S. Booth, CE:Aug 74:59

Bearing Properties

Practical Design of Masonry Buildings, R. M. Gensert and William C. Bretnall, TB:73:III-27-1069

Bearing Strength

Bearing Strength of Concrete Blocks, Wai F. Chen, TN: EM6:Dec 73:1314:10187

Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577

Bearing Tests

Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511

Bearing Values

Fly Ash as Structural Fill, Anthony M. DiGioia, Jr. and William L. Nuzzo, PO1:June 72:77:8980

Beautification

Esthetics in Structural Design, David P. Billington, CE:Oct 73:36

Good Esthetics a "Happy Accident?", Ignacio Martin, CE:Dec 74:71

Bedding Materials

Analysis of Sediment Sorting in Alluvial Channels, Saeed A. Rana, Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168

Bed-Material Transport and Bed Forms, Marion R. Carstens and Hilmi D. Altinbilek, HY5:May 72:787:8890

Fluid-Dynamic Consideration of Bottom Materials, Hormoz Pazwash and James M. Robertson, HY9:Sept 71:1317:8374

Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51

Bed Forms

Analytically Determined Bed-form Shape, Albert G. Mercer, TN: EM1:Feb 71:175:7858

Critical Review of Sediment Transport Experiments, Richard H. Cooper, Allan W. Peterson and Thomas Blench, HY5:May 72:827:8873

Experiments on Bed Form Generation by Wave Action, Geoffrey R. Mogridge and J. William Kamphuis, CE13:72:II-1123

Factors Determining Bed Forms of Alluvial Streams, Vito A. Vanoni, HY3:Mar 74:363:10396

Measurement of Bed Shear Stress Under Waves, H. P. Riedel, J. William Kamphuis and A. Brebner, CE13:72:I-587

A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF:Aug 72:261

Bed Load

Bed Load Transportation in Alluvial Channels, Satya P. Garg, Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177

A Comparison of Fluvial and Coastal Similitude, Bernard LeMehaute, 12CEC:71:1077

Coordination of Mobile-Bed Hydraulics, Thomas Bunch, HY6:Nov 69:1871:6884

Definitive Computations of Sand Discharge in Rivers, Fred B. Toffaleti, HY1:Jan 69:225:6350

Deformation of Rotational Tidal Currents in Shallow Coastal Water, Harald Gohren, 12CEC:71:2147

Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10:Oct 73:1659:10070

Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138

Effect of Flume Width on Bed-Form Characteristics, Maurice J. Crickmore, HY2:Feb 70:473:7077

Engineering Properties of Sea Floor Sediments from La Jolla Canyon, Iraj Noorany and Robert A. Zinser, CE13:72:II-1559

Experimental Investigation of Form of Bed-Roughness, Sat Dev Khanna, HY10:Oct 70:2029:7623

Field Study of a Tidal Inlet, Bimini, Bahamas, W. Harrison, R. J. Byrne, J. D. Boon, III and R. W. Moncure, 12CEC:71:1201

Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854

Height of Sand Dunes in Open Channel Flows, Mohammad Akram Gill, HY12:Dec 71:2067:8612

Initial Instability of Fine Bed Sand, Anthony J. Grass, HY3:Mar 70:619:7139

Initiation of Ripples on Flat Sediment Beds, Philip B. Williams and Patrick H. Kemp, HY4:Apr 71:505:8042

Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3:Mar 72:489:8765

Laboratory Tests on Artificial Seaweed, W. A. Price, K. W. Tomlinson and D. H. Willis, 12CEC:71:995

Longitudinal Dispersion of Bed-Material Particles, Chih Ted Yang and William W. Sayre, HY7:July 71:907:8228

Longshore Transport Computations, Eco W. Bijker, WW4:Nov 71:687:8546

Motion of Single Particles in Alluvial Channels, Neil S. Grigg, HY12:Dec 70:2501:7770

Natural Flushing Ability in Tidal Inlets, I. B. Mota Oliveira, 12CEC:71:1827

On the Geometrically Similar Reproduction of Dunes in a Tidal Model with Movable Bed, Mehmet Selim Yalin, CE13:72:II-1143

Parameters for Bed Slip Point in Two-Phase Flow, Kenneth C. Wilson, HY10:Oct 71:1665:8426

Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125

A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130

Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73:1551:10033

Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Vito A. Vanoni, Chmn., HY12:Dec 71:1979:8591

Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783

Sediment-Pickup Function, Albert R. LeFeuvre, Hilmi D. Altinbilek and Marion R. Carstens, HY10:Oct 70:2051:7636

Sediment Transport Measurements in Gravel River, Albert B. Hollingshead, HY11:Nov 71:1817:8521

Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11: Nov 73:2041:10167
Selection of Disposal Areas for Spoil From Baltimore Harbor, John F. Hoffman, 12CEC:71:2267
Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, HY7:July 74:849:10657
Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12: Dec 72:2191:9456
Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8: Aug 72:1427:9105
Tests of Scour Protection for Bridge Piers, Chesley J. Posey, HY12:Dec 74:1773:11017
Underwater Mound for the Protection of Durban's Beaches, Johan A. Zwamborn, G. A. W. Fromme and J. B. FitzPatrick, 12CEC:71:975

Bedload Movement
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469
Deformation of Rotational Tidal Currents in Shallow Coastal Water, Harald Gohren, 12CEC:71:2147
Einstein Bed-Load Function at High Sediment Rates, Hans Albert Einstein and Farouk M. Abdel-Aal, HY1:Jan 72:137:8652
Experiments on Bed Form Generation by Wave Action, Geoffrey R. Mogridge and J. William Kamphuis, CE13:72:II-1123
Failure of Submarine Slopes Under Wave Action, R. J. Mitchell, K. K. Tsui and Dwight A. Sangrey, CE13:72:II-1515
Field and Laboratory Studies: Navigation Channels of the Columbia River Estuary, Morrough P. O'Brien, CE13:72:III-2465
Influence of Grain Size on Littoral Drift, Jose Castanho, 12CEC:71:891
Laboratory Tests on Artificial Seaweed, W. A. Price, K. W. Tomlinson and D. H. Willis, 12CEC:71:995
The Measurement of Offshore Shingle Movement, Maurice J. Crickmore, C. B. Waters and W. A. Price, CE13:72:II-1005
Movable-Bed Model Studies of Perched Beach Concept, C. E. Chatham, Jr., CE13:72:II-1197
On the Geometrically Similar Reproduction of Dunes in a Tidal Model with Movable Bed, Mehmet Selim Yalin, CE13:72:II-1143
Phase Dependent Roughness Control of Sand Movement, Douglas L. Inman and Edward B. Tunstall, CE13:72:II-1155
Research for the Coastal Area of the Delta Region of the Netherlands, J. J. Dronkers, 12CEC:71:1783
River Bed Transport Related to Meander Migration Rates, Charles R. Neill, TN: WW4:Nov 71:783: 8491
Scale Selection for Mobile Bed Wave Models, J. William Kamphuis, CE13:72:II-1173
Sea-Bed Configuration in Relation to Breakwater Stability, J. H. van Oorschot and A. Wevers, CE13: 72:II-1543
Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783
Sediment Transport by Wave Action, Hans Albert Einstein, CE13:72:II-933
Similarity of Equilibrium Beach Profiles, M. J. Paul, J. William Kamphuis and A. Brebner, CE13:72:II-1217
Study of Durban Harbor Silting and Beach Erosion, Jan Malan Jordaan, Jr., 12CEC:71:1097
Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8: Aug 72:1427:9105
Underwater Mound for the Protection of Durban's Beaches, Johan A. Zwamborn, G. A. W. Fromme and J. B. FitzPatrick, 12CEC:71:975
Velocity Measurement in Waves Using Strain Gauge Technique, Harihar Raman, Viswanatha Sethuraman and I. V. Muralikrishna, WAVES:Sept 74:817

Bed Movements
Elbe Tidal Model with Movable Bed, Hans Vollmers and Egon Giese, CE13:72:III-2447
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF: Aug 72:527
Field and Laboratory Studies: Navigation Channels of the Columbia River Estuary, Morrough P. O'Brien, CE13:72:III-2465
Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72: 1057:8952
Mass Transport by Waves and Offshore Sand Bedforms, Trevor G. Carter, Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, Nikolai P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543
Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071

Bed Ripples
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469

Bedrock
Bedrock Motions Computed from Surface Seismograms, Constantine N. Papadakis, Victor L. Streeter and E. Benjamin Wylie, GT10:Oct 74: 1091:10853
Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89
H-Bearing Piles in Limestone and Clay Shales, William D. Ashton and Paul H. Schwartz, GT7: July 74:787:10667
Role of Bedrock in Watershed Management, Walter F. Megahan, IR73:Aug 73:449
Stiffness Coefficients for Embedded Footings, Gordon R. Johnson, Paul P. Christiano and Howard I. Epstein, EPCE:Aug 74:499
Use of Precision Gravity Survey to Determine Bedrock, John R. Sumner and John A. Burnett, GT1:Jan 74:53:10256

Bed Roughness
Measurement of Bed Shear Stress Under Waves, H. P. Riedel, J. William Kamphuis and A. Brebner, CE13:72:I-587
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814
Temperature Effects in Flows over Nonplanar Beds, Brent D. Taylor, HY12:Dec 74:1785:11015

Beds
Experiences with Bed Sills in Stream Stabilization, Robert P. Apmann and Paul H. Blinco, WW3:Aug 69:319:6724
Experimental Investigation of Form of Bed-Roughness, Sat Dev Khanna, HY10:Oct 70:2029: 7623
Free Surface Shear Flow Over a Wavy Bed, Yoshiaki Iwasa and John F. Kennedy, HY2:Mar 68:431:5856
Friction Factors and Bed Forms in Fluvial Channels, David Squarer, HY4:Apr 70:995:7245
Observations on Hydraulic Jumps at Rounded Step, James J. Sharp, HY6:June 74:787:10592
Regime Theory Design of Canals with Sand Beds, Thomas Blench, IR2:June 70:205:7381
Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Vito A. Vanoni, Chmn., HY1:Jan 71:101:7786

Beds (Geology)
Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247

Beds Under Water

Analysis of Flow in Channels with Gravel Beds, John A. Roberson and Steven J. Wright, HYB:Aug 73:63
Discharge, Slope, Bed Element Relations in Streams, J. K. Virmani, Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF: Aug 72:527
Protection of Offshore Structures Against Underscour, Chesley J. Posey, HY7:July 71:1011: 8230
Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293

Behavior

Behavioral Evaluation of Pedestrian Countermeasures, Wallace G. Berger, BP73:Dec 73: 112
Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
Behavioral Perspective for Transportation Planning, D. Geoffrey Hayward, MTI:May 72:27
Behavioral Sciences Investigation, James Kise, ABS: 71:101
Behavior and Transit Vehicle Design, Robert Lepper, MTI:May 72:37
Behavior Setting, Synormorphy, and Environmental Design, Paul V. Gump and Julius Marek, ABS:71: 61
Role of Behavioral Science in Environmental Design, Sidney Cohn, ABS:71:115
Use of Sociology in Design Practice, Robert Gutman, ABS:71:109

Behavioral Sciences

Behavioral Sciences Investigation, James Kise, ABS: 71:101
Behavior Setting, Synormorphy, and Environmental Design, Paul V. Gump and Julius Marek, ABS:71: 61
Better Designs for Man through Teamwork, Training, Research, and Feedback, Calvin W. Taylor, ABS: 71:11
Case Studies of Interdisciplinary Team Efforts in Environmental Design, Eugene D. Jones, ABS:71: 75
The City is the People--So is the Planning/Building Process, Morton Hoppenfeld, ABS:71:91
Experiences with Interdisciplinary Teams, Norman M. Klein, ABS:71:83
Keynote Address, Oscar S. Gray, ABS:71:1
Residential Environment and Adjustment: The Special Case of the Elderly, Kermit K. Schooler, ABS:71:43
Role of Behavioral Science in Environmental Design, Sidney Cohn, ABS:71:115
Territorial Behavior and Preservation in Relation to Environmental Quality, Eugene P. Odum, ABS:71: 53
Use of Sociology in Design Practice, Robert Gutman, ABS:71:109

Belled Footings

Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708

Belt Conveyors

Ribbon Batch and Conveyor Placing Systems for Concrete Dams, Robert F. Oury, RCCD:70:281

Belt Highways

Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619

Bench Marks

Use of Trees as Bench Marks in Expansive Clays, Robert Davis and Richard Tucker, TN: SU1:Sept 73:149:10017

Benchmarks In Civil Engineering

The American Engineer's Nateria Universalis, Neal FitzSimons, CE:June 70:81
Ferdinand Hassler: The Great Triangulator, Neal FitzSimons, CE:Mar 71:87
Gallatins's Report: A Transportation Plan For The United States, Neal FitzSimons, CE:Apr 70:76
L'heritage Francais, Neal FitzSimons, CE:May 71:85
Pollution Fighters: Rudolph Hering, Neal FitzSimons, CE:Oct 71:100

Bending

Analysis of Plate Bending by Triangular Element, William Y.J. Shieh, Seng-Lip Lee and Richard A. Parmelee, EM5:Oct 68:1089:6176
Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
Bending of Clamped Orthotropic Sandwich Plates, G. Michael Folie, EM3:June 70:243:7340
Bending of Spectoral Plates with Clamped Edges, John W. Weber, TN: EM2:Apr 73:440:9641
Bending of Two-Layer Sandwich Plates, Jao-shiun Kao, TN: EM2:Apr 70:201:7193
Biaxial Moment Thrust Curvature Relations, Robert F. Warner, ST5:May 69:923:6564
Comparison Of Finite Elements For Plate Bending, John F. Abel and Chandrakant S. Desai, TN: ST9: Sept 72:2143:9162
Continuously Supported Cylindrical-Conical Tanks, Robert S. C. Wang and Phillip L. Gould, ST10:Oct 74:2037:10876
Convergence of Hypar Finite-Difference Solutions, J. G.A. Croll and J. C. Scrivener, ST5:May 69:809: 6540
Coupled Walls Subjected To Discontinuous Distributed Loads, Ian J. Jordaan and Robert E. Loov, TN: ST7:July 72:1675:9069
Deflection of Circular Plate with Built-in Edges, Manuel A.G. Silva and Leon M. Keer, ST8:Aug 71: 2073:8319
Elastic Plastic Bending of Circular Plates, Narendra K. Srivastava and Archibald N. Sherbourne, EM1: Feb 71:13:7902
Finite Element Bending Analysis of Reissner Plates, Charles W. Pryor, Jr., Richard M. Barker and Daniel Frederick, EM6:Dec 70:967:7760
Finite Element Plate Bending Equilibrium Analysis, Edoardo Anderheggen, EM4:Aug 69:841:6715
Flexure of Circular Plate by Concentrated Force, T. M. Lee, EM3:June 68:841:6006
Inelastic Bending of Wood Beams, Borislav D. Zakic, ST10:Oct 73:2079:10071
Inelastic Spatial Stability of Restrained Beam-Columns, Sriramulu Vinnakota and Pentti Aysto, ST11:Nov 74:2235:10919
Inelastic Stability of Beams under Biaxial Bending, Chesada Kasemset, Fumio Nishino and Seng-Lip Lee, EM5:Oct 74:965:10881
Interaction Equations for Biaxially Loaded Sections, Wai F. Chen and Toshio Atsuta, ST5:May 72:1035: 8902
Nonlinear Bending of Bars, Imamuddin Khwaja, TN: EM1:Feb 71:137:7858
Numerical Solution of Moderately Thick Plates, Rajabhau S. Deshmukh and Robert R. Archer, EM5:Oct 74:903:10860
Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107: 10041
Prestressed Beams in Torsion, Bending, and Shear, Robert L. Henry and Paul Zia, ST5:May 74:933: 10560
Rational Design of Light Gage Beams, Jeffrey L. Bluestein and Atle Gjelsvik, ST7:July 70:1535:7421
Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1: Jan 73:183:9501

Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293
Seismic Analysis of Underground Structural Elements, Hemant H. Shah and Shih-Lung Chu, PO1:July 74:53:10648
Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488
Simple Interaction Equations for Beam-Columns, Wai F. Chen and Toshio Atsuta, ST7:July 72:1413:9020
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
Stability and Drift Problem, State-of-Art Report 3, P. Dayaratnam and Y. C. Das, TB:73:II-15-303
Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455
Stresses in Beams Having Holes of Arbitrary Shape, H. Deresiewicz, EM5:Oct 68:1183:6185
Strongly Curved Finite Element for Shell Analysis, John W. Leonard and Chin-Tsang Li, EM3:June 73:515:9805
Structural Concrete-Biaxial Bending and Compression, Cheng-Tzu Hsu and M. Saeed Mirza, TN: ST2:Feb 73:285:9545
Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386
Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73:1205:9788
Torsion and Bending of Prestressed Concrete Beams, Lawrence H. Martin and Peter J. Wainwright, ST11:Nov 73:2229:10129
Torsion in Beams with Open Sections, Kuang-Han Chu and Robert B. Johnson, ST7:July 74:1397:10666

Bending Moments
Analysis of Longitudinal Behavior of Buried Pipes, Harry G. Poulos, GT74:June 74:199
Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898

Bending Stress
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5:May 72:1119:8916
Optimum Proportions for I-Shaped Beams, Charles G. Schilling, ST12:Dec 74:2385:11007
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090
Static Ending Strain in Stranded Conductor, James C. Poffenberger and Puran R. Mehta, ST11:Nov 70:2429:7687

Bends (Hydraulic)
Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559
Estimating Discharge From Superelevation in Bends, Robert P. Apmann, HY1:Jan 73:65:9482

Beneficial Use
State Water Rights Laws, William R. Walker, IR4:Dec 73:449:10217

Benefit Cost Analysis
Analytical Approach to Railway Signal Block Design, David M. Weiss and David R. Fialkoff, TE1:Feb 74:71:10369
Application of Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE1:Feb 74:61:10322
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
Broad Scope of Navigation's Economic Impact, Minard I. Foster, WW1:Feb 69:23:6389
Budget Constraints and Multiobjective Planning, Arthur Maass and David C. Major, PP3:July 72:359:9064
Cost-cutting Techniques for Rapid Transit Structures, Lev Zetlin and Richard L. Tomasetti, NA:Mar 71:123
Costs and Benefits of Reducing Bicyclists' Exposure to Road-Side Air Pollution, Mike Everett, BP73:Dec 73:352
Costs and Benefits Reating to Paper Mill Waste Treatment, Arthur Lesser, Jr. and Michael A. Tirabassi, EI1:Jan 74:61:10279
The Engineer and the EIS: Some NEPA Court Decisions, Jack Golden and Thomas R. Mongan, CE:Mar 74:49
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877
Exploration and Geologic Prediction for Underground Works, Lloyd B. Underwood, EFSE:Aug 74:65
Financing Metro, William I. Herman, TE4:Nov 70:571:7680
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
Increase Fleet Productivity and Decrease Unit Production Costs, Omar E. Rood, Jr., CE:July 74:84
Interdistrict Apportionment of Flood Control Costs, Richard R. Dague, E. Robert Baumann and Paul E. Morgan, IR4:Dec 68:441:6298
Introduction to Session VI -- Applications of New Technology to the Solution of Environmental Problems, Samuel S. Baxter, PWS:Nov 72:201
Keynote Address — Our Last Unexplored Frontier — The Space Beneath Our Feet, Lloyd J. Money, EFSE:Aug 74:10
Least-Cost Design of Water Distribution Systems, Thawat Watanatada, HY9:Sept 73:1497:9974
Least Cost Design of Water Main System in Series, Arun K. Deb, TN: EE3:June 73:405:9764
Marketing Principles Applied to Engineering Education, George Pincus, CEE:Feb 74:1-1006
Model for Flow Augmentation Analysis-An Overview, George R. Grantham, Edwin E. Pyatt, James P. Heaney and Buford J. Carter, Jr., SA5:Oct 70:1045:7578
Optimum Investment in Structural Flood Control, William Whipple, Jr., HY6:Nov 68:1507:6238
Origin, Purpose, and Status of Project, Robert A. Nelson, TE4:Nov 70:439:7655
Planning Economical Tunnel Surveys, Bruce J. Thompson, SU2:Nov 74:95:10906
Planning Profitable Irrigation Investments in Missouri, Herman E. Workman, OIDS:72:491
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
Systems Analysis and Solid Waste Planning, Robert M. Clark and James I. Gillean, EE1:Feb 74:7:10316
Towards an Optimum Solution for Underground Rapid Transit, Marc S. Caspe, TE1:Feb 69:157:6416

Benefit-Cost Ratios
The Basic Inadequacy of Conventional Urban Transportation Modes, Ben Alexander, UTI:71:59
Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72:823:9319
Consideration of Alternatives in Decision Making, Ellis L. Armstrong, EI2:Apr 74:119:10498
Economic Evaluation of Water Deficiencies, Alan D. Kleinman, IRS:Sept 72:415
Evaluation of Harbor Deepening Projects, Sunil K. Bhattacharya and Amarendra N. Biswas, WW1:Feb 73:111:9575
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
Inclusion of Social Values in Facility Location Planning, David Morris, UP1:July 72:17:9023
Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185
Principles and Standards -- Water and Land Planning, Gary D. Cobb, IRS:Sept 72:399
Project Selection Based on Benefits and Costs, Michael Raymond Toakley and John F. Brotchie, CO2:Sept 72:149:9163

The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492
Quantifying Impact of Transportation Systems, William L. Smith, UP1:Mar 74:79:10416
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147
Transportation Planning Myths and Realities, Raymond H. Ellis, UTI:71:243

Benefits
Costs and Benefits of Reducing Bicyclists' Exposure to Road-Side Air Pollution, Mike Everett, BP73: Dec 73:352

Benthic Flora
Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293

Bentonite
Bentonite Sealing Methods Compared in the Field, Myron B. Rollins and Anthony S. Dylla, IR2:June 70:193:7379
Diaphragm Wall Construction Techniques, Kevin L. Nash, CO4:Dec 74:605:11025
The Dynamic Cone Penetration Test, Dinesh Mohan and D. F. Sen Gupta, CE:Feb 70:49
Stability of Trenches Filled with Fluids, Kevin L. Nash, CO4:Dec 74:533:11006

Bents (Structural)
Interaction of Bents with Box Girders, Richard N. Wright, TN: ST6:June 70:1265:7315

Berms
Design of Embankments on Peat, Gerald P. Raymond, GT74:June 74:143

Berths
The Added Mass of a Ship in Longitudinal Oscillation, Jean Sommet, BMS:71:174
Design Criteria for Fenders and Berthing Structures, Brendan F. Saurin, BMS:71:256
Elastic Characteristics of Mooring Lines, Basil W. Wilson, BMS:71:80
Full Scale Observation of Berthing Impacts: Their Interpretation, John T. O'Brien, BMS:71:203
Full Scale Observations on Berthing Impacts: Their Interpretation, Brendan F. Saurin, BMS:71:198
Further Analysis of Optimum Size Seaport, Stephen R.C. Wanhill, WW4:Nov 74:377:10961
The Mechanics of Impact and Evaluation of the Hydrodynamic Mass Analytic Study of the Problem of Berthing, Fernando Vasco Costa, BMS:71:157
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Selection of Fenders, Fernando Vasco Costa, BMS: 71:260
Supplement List of Needs in Research on Problems of Berthing and Mooring Ships, Basil W. Wilson, BMS:71:286
Ways to Improve Berthing Operations, Basil W. Wilson, BMS:71:268
Ways to Improve Berthing Operations, Fernando Vasco Costa, BMS:71:273

Biaxial Loads
Behavior of Biaxially Loaded Columns, Wai F. Chen, TB:73:II-16-575
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Interaction Equations for Biaxially Loaded Sections, Wai F. Chen and Toshio Atsuta, ST5:May 72:1035: 8902
Ultimate Strength of Biaxially Loaded Steel H-Columns, Wai F. Chen and Toshio Atsuta, ST3: Mar 73:469:9613

Biaxial Stress
Inelastic Structural Response to 2D Ground Motion, David A. Pecknold, EM5:Oct 74:949:10846
Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293

Biaxial Stresses
Analysis of Biaxially Loaded Steel H-Columns, Sakda Santathadaporn and Wai F. Chen, ST3:Mar 73:491: 9621
Biaxially Loaded Beam-Column Analysis, Ishwar C. Syal and Satya S. Sharma, ST9:Sept 71:2245:8384
Biaxial Stress-Strain Relations for Concrete, Tony C.Y. Liu and Arthur H. Nilson, ST5:May 72:1025: 8905
Inelastic Spatial Stability of Restrained Beam-Columns, Sriramulu Vinnakota and Pentti Aysto, ST11:Nov 74:2235:10919
Inelastic Stability of Beams under Biaxial Bending, Chesada Kasemset, Fumio Nishino and Seng-Lip Lee, EM5:Oct 74:965:10881
Numerical Biaxial Characterization for Concrete, Karl M. Romstad, Michael A. Taylor and Leonard R. Herrmann, EM5:Oct 74:935:10879
R/C Column Earthquake Response in Two Dimemsions, A. Emin Aktan, David A, Pecknold and Mete A. Sozen, ST10:Oct 74:1999:10864
Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455

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Bicycles

Balancing Transportation, John E. Hirten, BP73:Dec 73:1

The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120

The Bicycle as It Relates to the Energy Crisis, Nina D. Dougherty, BP73:Dec 73:331

The Bicycle Locker - The Urban Solution, William Hepler, BP73:Dec 73:507

Bicycle Registration, Glenn R. Walters, BP73:Dec 73:515

Bicycles for the Human Environment: New Developments at the U.S. Department of Transportation, Benjamin O. Davis, Jr., BP73:Dec 73:30

Bicycle Theft and Registration - An Overview, Arthur R. Daniel, Jr., BP73:Dec 73:492

Bicycle Theft: The Problem and The Prevention, Raymond N. Seakan, BP73:Dec 73:496

Bicycling Safety and Enforcement Programs - Why They Fail, Larry Wuellner, BP73:Dec 73:565

Bikeway Planning and Design, H. M. Huffman, Jr., BP73:Dec 73:655

Bikeway Planning and Implementation - The Maryland Experience, Paul R. Farragut, BP73:Dec 73:288

Bikeways, Bikeway Planning and Bicycling, Keith Kingbay, BP73:Dec 73:526

Bikeways - The Federal Role, Julian Rhinehart, BP73:Dec 73:13

Biking and Hiking Through Red Tape, Margret M. Rimmer, BP73:Dec 73:9

Chicago Bikeway Progress Report, John N. LaPlante, BP73:Dec 73:307

Chicago Experience, Joseph P. McDermott, BP73: Dec 73:172

Construction and Maintenance, Howard Gregg, BP73:Dec 73:155

Costs and Benefits of Reducing Bicyclists' Exposure to Road-Side Air Pollution, Mike Everett, BP73: Dec 73:352

Dade County Bikeways, Ron Tietgen, BP73:Dec 73: 286

Dangers of Parallel-Bar Sewer Grates to Bicyclists, David Whitman, BP73:Dec 73:383

The Energy Crisis and the Bicyclist, James L. Konski, BP73:Dec 73:576

Estimating Potential Bicycle Use and Public Investment, Carl E. Ohrn, BP73:Dec 73:582

Future National Parks for Pedestrians and Bicyclists, Wm. H. Claire, BP73:Dec 73:530

Getting the Job Done, Carl Berkowitz and Richard Cohen, BP73:Dec 73:282

Investing in Urban Bicycle Facilities: How Much? What Type? Where?, Richard C. Podolske, BP73: Dec 73:596

Investing in Urban Bicycle Facilities, Richard C. Podolske, TE3:Aug 74:687:10742

Licensing of Pedicycle Operators, Lawrence C. Wilson, BP73:Dec 73:571

Maintenance of Bicycle Facilities - An Overview, Thomas A. Gawley and Walter H. Kraft, BP73:Dec 73:143

Now That You Have One, What Have You Done For Your Bikeway Lately?, John M. Freiermuth, BP73:Dec 73:151

Operation and Maintenance of Campus Bicycle Facilities, John E. Baerwald, BP73:Dec 73:167

Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928

Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315

Promotion as a Bikeway Planning Factor, Norman R. Hawirko, BP73:Dec 73:661

Prospects for Bicycle Transportation, Jason C. Yu, BP73:Dec 73:645

Recent Progress in Dual-Mode Bicycle Transportation, David M. Eggleston, BP73:Dec 73: 616

Regulations for Pedestrian and Bicycle Safety: Why, Who, What and How to Regulate, Monroe B. Snyder, BP73:Dec 73:553

Research on Safety and Locational Criteria for Bicycle Facilities, Daniel T. Smith, Jr., BP73:Dec 73:134

Safety Aspects of Bicycle Transportation, Paul H. Wright, A. Trent Germano and R. Gary Hicks, BP73:Dec 73:368

The Tempe Bikeway Study, Elizabeth A. Drake, BP73:Dec 73:297

There Oughta Be A Law!, Norman A. Clarke, BP73: Dec 73:550

UCSB Bikeways - Notes and Comments, Peter Chapman, BP73:Dec 73:672

Bids

Are Submarine Pipeline Contract Documents That Good?, Sam W. Small, III, PITO:74:67

Better Specifications for Underground Work, J. Donovan Jacobs, CE:June 71:47

Better Specifications for Underground Work, J. Donovan Jacobs, URC:72:515

Bidding Contingencies and Probabilities, Marvin Gates, CO2:Nov 71:277:8524

Bidding is Against Client Interest, John T. Merrifield, PP3:July 73:389:9878

Bidding Models: Resolution Of A Controversy, Matthew Rosenshine, TN: CO1:Mar 72:143:8753

Bidding Models—The Final Resolution of a Controversy, John M. Dixie, CO3:Sept 74:265: 10790

Dsc, Bidding Move Overdue, Charles B. Pekor, CE: Mar 72:69

Bidding With Competitive Strategy Models, Louis R. Shaffer and Terry W. Micheau, CO1:Mar 71:113: 8008

Book Review: Handbook of Construction Management and Organization, Ben C. Gerwick, Jr., CE:Oct 73:106

Changed Soil and Rock Conditions in Construction, George F. Sowers, CO2:Nov 71:257:8509

Competitive Bidding on Foreign Work, E. Montford Fucik, PP1:Oct 71:121:8456

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Final Committee Position on The AGC's Recommendation that Approved Securities be Posted in Lieu of Retained Percentages, by the Committee on Contract Adminstration of the Construction Division, Robert D. Rowland, Chmn., CO2:Nov 71:271:8517

The Law -- The Letter and the Spirit -- Introduction, M. D. Morris, CEWAU:74:161

Model Form of "Instructions To Bidders," by the Committee on Contract Administration of the Construction Division, Woodrow W. Wilson, Chmn., CO1:Mar 74:27:10407

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OPBID: Competitive Bidding Strategy Model, Thomas L. Morin and Richard H. Clough, CO1: July 69:85:6690

Open-Shop Movement Slithers Into Construction Contracting, Robert N. Olsen, CE:Nov 71:40

Owner-Engineer-Contractor Economic Considerations in Dam Construction, Gerald T. McCarthy, ECCD:72:493

Owner-Engineer-Contractor Economic Considerations in Dam Construction, George L. Beard, ECCD:72:503

Panel on Owner-Engineer-Contractor Economic Considerations in Dam Construction, Geo. H. Atkinson, ECCD:72:483

Probabilistic Approach to Estimating and Cost Control, Antonio J. Vergara and LeRoy T. Boyer, CO4:Dec 74:543:11021

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Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781

State of Practice — Subsurface Investigation for Highway Tunnels, David S. Gedney, EFSE:Aug 74:36

State of the Society, Oscar S. Bray, PP4:Oct 72:481:9291

Subway Construction: Management and Costs, Thomas R. Kuesel, CE:Mar 69:60

Utility Function Determination for Bidding Models, Jack H. Willenbrock, CO1:July 73:133:9843

What's the Deal? Government Negotiates Engineering Services, Richard H. Tatlow, III, PP1:Sept 70:81:7557

Bifurcations

Bifurcation Analyses for Shallow Arches, Clive L. Dym, EM2:Apr 73:287:9649

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Bikeways

Balancing Transportation, John E. Hirten, BP73:Dec 73:1

The Bicycle as It Relates to the Energy Crisis, Nina D. Dougherty, BP73:Dec 73:331

Bicycling Safety and Enforcement Programs - Why They Fail, Larry Wuellner, BP73:Dec 73:565

Bikeway Planning and Design, H. M. Huffman, Jr., BP73:Dec 73:655

Bikeway Planning and Implementation - The Maryland Experience, Paul R. Farragut, BP73:Dec 73:288

Bikeway Planning/Construction - A PR Tool, John F. Graham, BP73:Dec 73:200

Bikeways, Bikeway Planning and Bicycling, Keith Kingbay, BP73:Dec 73:526

Bikeways in National Capital Parks, Thomas DeHaven, BP73:Dec 73:547

Bikeways - The Federal Role, Julian Rhinehart, BP73:Dec 73:13

Biking and Hiking Through Red Tape, Margret M. Rimmer, BP73:Dec 73:9

Chicago Bikeway Progress Report, John N. LaPlante, BP73:Dec 73:307

Chicago Experience, Joseph P. McDermott, BP73:Dec 73:172

Construction and Maintenance, Howard Gregg, BP73:Dec 73:155

Dade County Bikeways, Ron Tietgen, BP73:Dec 73:286

Future National Parks for Pedestrians and Bicyclists, Wm. H. Claire, BP73:Dec 73:530

Getting the Job Done, Carl Berkowitz and Richard Cohen, BP73:Dec 73:282

Investing in Urban Bicycle Facilities: How Much? What Type? Where?, Richard C. Podolske, BP73:Dec 73:596

Maintenance of Bicycle Facilities - An Overview, Thomas A. Gawley and Walter H. Kraft, BP73:Dec 73:143

Mobility as It Relates to the Handicapped and the Elderly's - An Overview, Steven C. Provost, BP73:Dec 73:411

Now That You Have One, What Have You Done For Your Bikeway Lately?, John M. Freiermuth, BP73:Dec 73:151

Operation and Maintenance of Campus Bicycle Facilities, John E. Baerwald, BP73:Dec 73:167

Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315

Promotion as a Bikeway Planning Factor, Norman R. Hawirko, BP73:Dec 73:661

Prospects for Bicycle Transportation, Jason C. Yu, BP73:Dec 73:645

Public and Legislative Support for Bikeways, John Auerbach, BP73:Dec 73:20

Regulations for Pedestrian and Bicycle Safety: Why, Who, What and How to Regulate, Monroe B. Snyder, BP73:Dec 73:553

Research on Safety and Locational Criteria for Bicycle Facilities, Daniel T. Smith, Jr., BP73:Dec 73:134

Safety of Pedestrians and Abutting Property Occupants, Julie Anna Fee, BP73:Dec 73:85

The Tempe Bikeway Study, Elizabeth A. Drake, BP73:Dec 73:297

There Oughta Be A Law!, Norman A. Clarke, BP73:Dec 73:550

UCSB Bikeways - Notes and Comments, Peter Chapman, BP73:Dec 73:672

Bimetals

Higher Mode Buckling of Bimetallic Beam, David Burgreen and David Regal, EM4:Aug 71:1045:8305

Thermal Buckling of a Bimetallic Beam, David Burgreen and Phillip J. Manitt, EM2:Apr 69:421:6509

Bins

Bin Loads, Andrew W. Jenike and Jerry R. Johanson, ST4:Mar 68:1011:5916

Grain Storage Structures for Food Deficient Areas, Alexander M. Turitzin, ST10:Oct 69:2161:6835

Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595

Bioassay

Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440

Biochemical Oxygen Demand

Biokinetic Evaluation of BOD Concepts and Data, William E. Gates and Sambhunath Ghosh, SA3:June 71:287:8184

Clarification of Book-Mill Effluent by Enzyme-Alum, Yeun C. Wu, EE3:June 74:541:10573

Critical Oxygen Deficit for Bank Outfall, Omar E. Rood, Jr. and Edward R. Holley, EE3:June 74:661:10585

Effects of Dispersion on DO-sag in Uniform Flow, Wen-Hsiung Li, SA1:Feb 72:169:8743

Hydraulically Ventilated Underground Filter, David K. Hills and Ray B. Krone, SA6:Dec 71:851:8596

Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469

Impoundment and Temperature Effect on Waste Assimilation, Peter A. Krenkel, Edward L. Thackston and Frank L. Parker, SA1:Feb 69:37:6406

In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62

Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205

Multi-Process Plant Treats Both Dilute and Strong Sewage, Peter Procopio, CE:June 74:67

Nonlinear Parameter Estimation in Water Quality Modeling, J. S. Shastry, Liang-tseng Fan and L. E. Erickson, EE3:June 73:315:9798

Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938

Oxygen Utilization in Bacterial-Protozoan Community, Raymond P. Canale and Frank Y. Cheng, EE1:Feb 74:171:10314

Power Plant Cooling Water Discharge in Streams, Liang-Tseng Fan, Jie-Tsai Tseng and Ching Hwang, PO4:Dec 71:841:8595

Probabilistic Variations in Ultimate First Stage BOD, Veerasamy Kothandaraman, SA1:Feb 70:27:7054

Problems Associated with Planning BOD Experiments, Paul M. Berthouex and William G. Hunter, SA3:June 71:333:8202

Static Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE3:June 74:529:10572

Stochastic Model for BOD and DO in Estuaries, Stephen W. Custer and Richard G. Krutchkoff, SA5:Oct 69:865:6834

Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296

Biochemistry

Aerobic and Anaerobic Landfill Stabilization Process, Ralph Stone and Rishab K. Gupta, SA6:Dec 70:1399:7766

Biodegradation

Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851

Bioengineering

Artificial Intelligence Continuum Mechanics, Andrew K.C. Wong and George Bugliarello, EM6:Dec 70:1239:7779

Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72:645:9282

Medicine -- Introduction, M. D. Morris, CEWAU:74:135

Opening Remarks, Gerald Palevsky, CEWAU:74:138

Plane Oscillatory Flow Past Rectangular Obstacles, Le-Chung Cheng, Marlyn E. Clark and James M. Robertson, EM4:Aug 74:707:10719

Prospectives in Bioengineering Research for Civil Engineers, George Bugliarello, PP1:Oct 71:83:8461

Streamlines in Two-Dimensional Laminar Branch Flows, David Charles Blest, HY1:Jan 72:171:8656

Biographies

A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, Neal FitzSimons, Chmn., BDACE:72, 163pp.

Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106

Biological Detection

Biological Control Of Intestinal Bacteria and Viruses, Ralph Mitchell, CEO-II:70:1241

Biological Surveys

Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73:691:10046

Biological Treatment

Batch Adsorption Kinetics in Sewage--Activated Carbon, Jeffrey S. Hsieh, Raffi M. Turian and Chi Tien, SA4:Aug 71:505:8339

Biological Denitrification and Phosphate Removal, Wayne E. Wruble, Charles C. Plummer and Mark J. Hammer, TN: EE5:Oct 74:1199:10855

Design and Economics of Joint Wastewater Treatment, W. Wesley Eckenfelder, Jr., SA1:Feb 72:153:8746

Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191

Nitrification Rate in Biological Processes, Ching-San Huang and Ninnian E. Hopson, EE2:Apr 74:409:10462

Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938

Biology

Kinetic Analysis of Data from Biological Systems, Robert L. Irvine and Donald J. Schaezler, SA4:Aug 71:409:8323

Biota

Effects of Wastewaters on Marine Biota, Wheeler J. North, CE13:72:III-2099

Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65:8984

Bitumens

Permanent Deformation in Asphaltic Materials, Geoffrey E. Blight, TE1:Feb 74:263:10327

Reducing Negative Friction with Bitumen Slip Layers, Alphonsus I. M. Claessen and Endre Horvat, GT8:Aug 74:925:10764

Bituminous Coatings

Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59

Runway Overlay Applied Overnight at Toledo Airport, Eugene R. Kasper, CE:Aug 69:58

Bituminous Concretes

Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54

Fatigue of Asphalt Paving Mixtures, Carl L. Monismith and John A. Deacon, TE2:May 69:317:6543

Blanket Grouting

Triangular Blankets Reduce Earthdam Seepage, Dalim K. Majumdar, TN: SM6:Nov 70:2191:7646

Blast Effects

Blast Loaded Buried Arches, Jimmy P. Balsara, EM1:Feb 70:1:7058

Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166

Seismic Effects on Earth Dam from Explosion, Lyman W. Heller, TN: SM11:Nov 73:1038:10/48

Blasting

Dynamic Analysis of Multibay Multistory Frames, Masaaki Suko and Peter F. Adams, ST10:Oct 71:2519:8443

Field Tests of Ice Jam Prevention Techniques, Julius H. Moor and Carl H. Watson, HY6:June 71:777:8179

Flathead Railroad Tunnel Construction, Hans Sacrison, CO1:Mar 71:127:8009

Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274

Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64

Presplitting and Rockbolts Cut Costs at Stockton Dam, Charles R. Gold[illegible]E:Jan 70:44

Rapid Excavation, W[illegible]plosives, Richard H. Groves and Robert [illegible], CE:Aug 72:60

Response of Structures [illegible]bined Blast Effects, Jeremy Isenbe[illegible] Li[illegible]e and Mihran S. Agbabian, TE4:Nov [illegible]0166

River Diversion for Boundary Dam, Adolf A. Schilling, PO3:June 70:319:7339

Session IV: Other Improvement Techniques (Additives, Grouting, Thermal, Electro, Vibroflotation, Blasting, Compaction, Piles), Roy E. Olson, PISST:71:91

Blast Loads

Analysis of Tunnel Liner-Packing Systems, William P. Dawkins, EM3:June 69:679:6622

Blast Loaded Buried Arches, Jimmy P. Balsara, EM1:Feb 70:1:7058

Design Developments - Asia & Australia, State-of-Art Report 4, Leonard K. Stevens, TB:73:Ib-7-399

Displacement Bounds for Blast Loaded Structures, Walter J. Morales, EM4:Aug 72:965:9147

Dynamic Response of Nonlinear Media at Large Strains, Joseph H. Heifitz and Carl J. Costantino, EM6:Dec 72:1511:9451
External Blast, Stanislaw Kajfasz, TB:73:Ib-8-717
External Blast, State-of-Art Report 7, Nathan M. Newmark, TB:73:Ib-8-661
Fire and Blast, Summary Report, Duiliu Sfintesco, Margaret Law and Rowland J. Mainstone, TB:73:Ib-8-739
Fire and Blast, Theme Report, Duiliu Sfintesco, TB:73:Ib-8-463
Internal Blast, State-of-Art Report 6, Rowland J. Mainstone, TB:73:Ib-8-643
Progressive Collapse, Abnormal Loads, and Building Codes, David E. Allen and William R. Schriever, STF:73:21
Progressive Collapse Risk, Norman F. Somes, TB:73:Ib-8-727
Radar Building Can Withstand Nuclear Attack, Edward Cohen and Edward B. Laing, CE:Oct 73:46
A Study of Damage to a Residential Structure from Blast Vibrations, John F. Wiss and Harry R. Nicholls, DRS:74, 80pp.

Blast Resistant Structures

Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12:Dec 73:2345:10230

Blocking

Effect Of Side Walls On Flow Past Bluff Bodies, Thomas L. Shaw, HY1:Jan 71:65:7788

Blocks

Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71:2023:8599

Blood Flow

Plane Oscillatory Flow Past Rectangular Obstacles, Le-Chung Cheng, Marlyn E. Clark and James M. Robertson, EM4:Aug 74:707:10719

Boats

Planning for Pleasure Boating on Regional Basis, Ellsworth J. Gullidge and Frank J. Urabeck, WW3:Aug 70:583:7453

Boilers

Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, Sital Darayanani, TB:73:Ia-2-319
Response of Suspended Boilers to Earthquake Motions, James C. Anderson, Ramachandran Srinivasan and Robert J. Small, EPCE:Aug 74:363
St. Louis Power Plant to Burn City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Jan 71:56

Bolted Joints

Behavior and Design of Shingle Joints, Edward H. Power and John W. Fisher, ST9:Sept 72:1923:9200
Behavior of Large A514 Steel Bolted Joints, Geoffrey L. Kulak and John W. Fisher, ST9:Sept 69:1873:6767
Bolted and Welded Stainless Steel Connections, Samuel J. Errera, Daniel W. Popowich and George Winter, ST6:June 74:1279:10618
Bolted Connections with Varied Hole Diameters, Zaher Shoukry and William Thomas Haisch, ST6:June 70:1105:7349
Connections in Thin Low-ductility Steels, Asfandiar K. Dhalla, Samuel J. Errera and George Winter, ST10:Oct 71:2549:8442
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72:2541:9345
Eccentrically Loaded Bolted Connections, Sherwood F. Crawford and Geoffrey L. Kulak, ST3:Mar 71:765:7956
Fatigue of A514 Steel in Bolted Connections, Peter C. Birkemoe, Donald F. Meinheit and William H. Munse, ST10:Oct 69:2011:6811
Fatigue of Bolted High Strength Structural Steel, Peter C. Birkemoe and Ramachandran Srinivasan, ST3:Mar 71:935:7997
Load Distribution in Multiple-Bolt Tension Joints, Calvin O. Cramer, ST5:May 68:1101:5939
Surface Treatment of High-Strength Bolted Joints, George C. Brookhart, I. H. Siddiqi and Desi D. Vasarhelyi, ST3:Mar 68:671:5851
Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73:2123:10055
Ultimate Capacity of Single Bolted Angle Connections, John B. Kennedy and George R. Sinclair, ST8:Aug 69:1645:6721

Bolts

Analysis of T-Stub Flange-to-Column Connections, Ben Kato and William McGuire, ST5:May 73:865:9725
Behavior and Design of Shingle Joints, Edward H. Power and John W. Fisher, ST9:Sept 72:1923:9200
Bolted Galvanized Bridges-Engineering Acceptance Near, Peter C. Birkemoe and D. C. Herrschaft, CE:Apr 70:42
Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327
Eccentrically Loaded Bolted Connections, Sherwood F. Crawford and Geoffrey L. Kulak, ST3:Mar 71:765:7956
Effect of Surface Coatings and Exposure on Slip, James H. Lee, Colin O'Connor and John W. Fisher, ST11:Nov 69:2371:6889
High Strength Bolts Subject to Tension and Prying, Rajasekharan S. Nair, Peter C. Birkemoe and William H. Munse, ST2:Feb 74:351:10373
Large Bolted and Riveted Shingle Splices, John W. Fisher and Noriaki Yoshida, ST9:Sept 70:1903:7534

Bonding

Analysis of Dowel Action, David W. Johnston and Paul Zia, ST5:May 71:1611:8147
Arch Action and Bond in Concrete Shear Failures, Ramnath N. Swamy, Alexios Andriopoulos and Dotun Adepegba, ST6:June 70:1069:7338
Bonded Concrete Overlays, Raouf Sinno and Howard L. Furr, ST8:Aug 70:1627:7450
Bonded Continuous Turnout, Gregory E. Mester and Robert H. Robey, TN: ST8:Aug 74:1748:10723
Bonding, Effective Stresses and Strength of Soils, T. S. Ramanatha Iyer, Awtar Singh and Richard G. Campanella, SM5:Sept 69:1219:6786
Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73:655:9653
Surface Bonded Masonry Construction, Robert J. Young, TB:73:III-27-1099

Bonding Strength

Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72:2663:9423
Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839
Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001

Bond Stress

Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3:June 72:581:8970

Book Paper

Clarification of Book-Mill Effluent by Enzyme-Alum, Yeun C. Wu, EE3:June 74:541:10573

Books

Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68
New Books On Structural Analysis, CE:Nov 71:70

Booms (Equipment)
Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
Out-of-Plane Buckling of Crane Booms, A. J. Kaninowski and Anatole Longinow, TN: ST10:Oct 70:2261:7572

Border Irrigation
Flow Resistance from Cylindrical Roughness, Soronadi Nnaji and I-pai Wu, IR1:Mar 73:15:9612

Bored Piles
Axial Capacity, Lymon C. Reese, PES:73:III-201
Behavior of Bored Piles in Beaumont Clay, Michael W. O'Neill and Lymon C. Reese, SM2:Feb 72:195:8741
Behavior of Bored Piles in Sand, Fadlo T. Touma and Lymon C. Reese, GT7:July 74:749:10651

Borehole Cameras
Fracture Evaluation by the Borehole Logging Method, John I. Myung and R. W. Baltosser, RM13:72:31

Borehole Geophysics
Fracture Evaluation by the Borehole Logging Method, John I. Myung and R. W. Baltosser, RM13:72:31

Bores
Finite-Difference Simulation of Bore Propagation, C. Samuel Martin and Jerome J. Zovne, HY7:July 71:993:8234

Bores (Wave)
Dam Collapse Wave in a River, Armando Balloffet, Eric Cole and Armando F. Balloffet, HY5:May 74:645:10523
The Development of Undular Bores with Friction, O. Hawaleshka and S. B. Savage, 12CEC:71:461

Boring
Exploration for Soft Ground Tunnels — A New Approaach, Birger Schmidt, EFSE:Aug 74:84
Identification of R&D Needs for Subsurface Site Investigations, George Brown Wallace, EFSE:Aug 74:372
On The Standard Penetration Test in Test Borings (In Spanish), A. D. Ferraz Napoles Neto, 4PCSM:71:II85
An Overview of Horizontal-Borehole Geophysical Techniques, Llewellyn A. Rubin, EFSE:Aug 74:233
A Recommended Borehole Investigation System for Soft Ground, Stephen Alsup, EFSE:Aug 74:117
The Self-Boring Placement Method of Soil Characteristics Measurements, Francois Baguelin, Jean-Francois Jezequel and Alain LeMehaute, EFSE:Aug 74:312
Standard Test Boring with Drilling Mud, Charles S. Hedges, 4PCSM:71:II63

Boring Machines
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72:235:9173

Borings
Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127

Botany
Notes on Trees and Tree Planting, Hans F. Bell, CE: July 73:77

Bottom Water
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, Nikolai P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Boundaries
Boundary-Layer Development at Curved Conduit Entrances, Palepu V. Rao, HY1:Jan 68:195:5756
The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979
Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942

Boundaries (Property)
Recommended Right-of-Way Practices, Harmer A. Weeden, CE:Apr 72:74

Boundary Conditions
Boundary Contractions as Controls in Two-Layer Flows, Subhash C. Mehrotra, HY11:Nov 73:2003:10160
The Development of Undular Bores with Friction, O. Hawaleshka and S. B. Savage, 12CEC:71:461
Elastic Analysis With Indeterminate Boundary Conditions, Antone F. Sayegh, EM1:Feb 74:49:10357
Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730
Finite Element Method: A Galerkin Approach, Stanley G. Hutton and Donald L. Anderson, EM5:Oct 71:1503:8448
Finite Element Method for Elastic Plastic Plates, Ted B. Belytschko and Milan Velebit, EM1:Feb 72:227:8724
Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011:10064
Shallow Spherical Shells Under Apex Loads, Isadore K. Silverman and John R. Mays, ST1:Jan 74:249:10262
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
Turbulent Flows Past Boundaries with Small Streamwise Flows, John F. Kennedy, Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664
Wave Forces on Cylinders Near a Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, HYB:Aug 73:155
Wave Transmission Through Permeable Breakwaters, Charles K. Sollitt and Ralph H. Cross, III, CE13:72:III-1827

Boundary Layer
Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218
Edge Effects in Hyperbolic Paraboloid Shells, J. G. A. Croll and J. C. Scrivener, ST3:Mar 69:457:6481
Flow Through Annulus with Large Radial Clearance, M. H. Abdul Khader and H. Suresh Rao, HY1:Jan 74:25:10265
Flow Visualization in Turbulent Boundary Layers, Joseph A. Clark and Eric Markland, HY10:Oct 71:1653:8459
Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72:447:8836
Linear-Momentum Flux to Overbank Sections, Robert R. Wright and Marion R. Carstens, HY9:Sept 70:1781:7517
Plane Jet on Sloping Floors Under Finite Submergence, Valupadas Mura Hari, HY9:Sept 73:1449:10027
Shear Flow Past Circular Cylinder, Thomas L. Shaw and Michael R. Starr, HY3:Mar 72:461:8774
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72:1365:9445
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475
Unsymmetrical Bending of Prestressed Annular Plate, William E. Alzheimer and R. T. Davis, EM4:Aug 68:905:6066
Water Surface Velocities Induced by Wind Shear, Erich J. Plate, EM3:June 70:295:7351

Boundary Layer Flow
Boundary Shear Distribution in Open Channel Flow, S. N. Ghosh and N. Roy, HY4:Apr 70:967:7241

Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2: Feb 73:259:9542
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475
Turbulence Structure in Plane Couette Flow, James M. Robertson and Henry F. Johnson, EM6:Dec 70: 1171:7754

Boundary Layer Separation

Boundary Layer Separation Concept of Settling Tanks, Yishu Chiu, EE6:Dec 74:1213:11019

Boundary Layer Transition

Thermal Stresses and Movements in Bridges, Joseph C. Reynolds and Jack H. Emanuel, ST1:Jan 74:63: 10275

Boundary Processes

Bottom Boundary Shear Stresses on a Model Beach, P. G. Teleki and Melvin W. Anderson, 12CEC:71: 269
Boundary Shear Stress in Rivers and Estuaries, Ronald E. Nece and Dungan J. Smith, WW2:May 70:335:7280
Variational Principles for Flow in Porous Media, Shlomo P. Neuman and Paul A. Witherspoon, EM2:Apr 71:359:8023

Boundary Shear

Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7: July 72:1127:9007
Characteristics of Turbulent Boundary Shear Stress, Paul H. Blinco and Daryl B Simons, EM2:Apr 74: 203:10477
Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8: Aug 72:1367:9088
Finite Element Solution for Flow in Noncircular Conduits, Robert Gerard, HY3:Mar 74:425:10425
Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB: Aug 73:43
Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125
Prediction of Wind Wave Heights, Henry T. Falvey, WW1:Feb 74:1:10324
Three-Dimensional Turbulent Wall Jets, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY1:Jan 74:69: 10294
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144

Boundary Value Problems

Analysis of Floating Plate Under Ocean Waves, Yi-Kwei Wen and Masanobu Shinozuka, WW2:May 72:177:8889
Bounds for Impulsively Loaded Plastic Structures, John B. Martin and Alan R.S. Ronter, EM1:Feb 72:107:8745
Buckling of Arbitrary Open Cylindrical Shells, Jack W. Vetter and Donald E. Boyd, EM1:Feb 72:177: 8726
Deflection of Circular Plate with Built-in Edges, Manuel A.G. Silva and Leon M. Keer, ST8:Aug 71: 2073:8319
Dynamic Passive Earth-Pressure Problem, Ali Sabzevari and Arsalan Ghahramani, GT1:Jan 74:15: 10285
Dynamic Response of Circular Footings, Juan Enrique Luco and Russell A. Westmann, EM5:Oct 71:1381:8416
Effects of Desposit Resuspension on Settling Basin, Takeichiro Takamatsu, Masaaki Naito, Sadataka Shiba and Yasuyo Ueda, EE4:Aug 74:883:10705
End Effects in Truncated Semi-Infinite Wedge, Robert Wm. Little and Tommie R. Thompson, EM5:Oct 72:1239:9251
Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467
Frequency Analysis of Tapered Orthotropic Plates, Jayaraman Ramachandran, EM1:Feb 72:1:8696
Imbedding Technique For Weak-Weak Approximations Of Linear And Nonlinear Operations, J. Tinsley Oden, TN: EM5:Oct 72: 1327:9228
Interaction of Ocean Waves with Floating Plate, Yi-Kwei Wen, EM2:Apr 74:375:10492
Lateral-Load Analysis of Asymmetric Multistory Structures, Jacob Gluck, ST2:Feb 70:317:7089
Limit States Design of Slabs Using Lower Bound Approach, B. Vijaya Rangan, ST2:Feb 74:373:10348
Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617
Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770
One-Dimensional Consolidation Of Layered Systems, Robert L. Schiffman and Jack R. Stein, TN: SM4: July 70:1499:7387
Scale Effects in Rubble-Mound Breakwaters, Kenneth W. Wilson and Ralph H. Cross, III, CE13:72:III-1873
Shallow Circular Vaults, James F. Dickie and Peter Broughton, EM1:Feb 73:1:9520
Simplified Approach to Lower Bound Solutions of Slabs, B. Vijaya Rangan, TN: ST3:Mar 70:747:7118
Solution of Differential Equations in Structural Mechanics, G. Michael Folie, TN: EM6:Dec 70: 1297:7715
Stream Turbulence Effects On Turbulent Boundary Layer, James M. Robertson and Charles F. Holt, TN: HY6:June 72:1095:8932
Stress Distribution Around Shell Openings, A. Ziya Aktas, ST11:Nov 70:2337:7693
Structural Design for Bounds on Dynamic Response, J.-M. Chern, J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646
Thick-Shell Stress Resultants, Frank G. Bercha and Peter G. Glockner, TN: EM3:June 72:757:8931
Turbulent Flows Past Boundaries with Small Streamwise Flows, John F. Kennedy, Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664
Upper Bound Analysis Of Rough Footing Indentation, Lawrence A. Larkin, TN: EM2:Apr 72:493:8815
Velocity and Shear Stress in Wave Boundary Layers, P. G. Teleki, CE13:72:I-569

Box Beams

Box Girder Model Studies, Dennis E. Myers and Peter B. Cooper, ST12:Dec 69:2845:6966
Interaction of Bents with Box Girders, Richard N. Wright, TN: ST6:June 70:1265:7315
Plastic Behavior of Hollow Structural Sections, Robert M. Korol and John Hudoba, ST5:May 72: 1007:8872
Progress Report on Steel Box Girder Bridges, Subcommittee on Box Girders of the ASCE-AASHO Task Committee on Flexural Members, Theodore V. Galambos, Chmn., ST4:Apr 71:1175: 8068
Severn River Suspension Bridge, Gilbert Roberts, CE: Aug 69:68
Shear Lag in Stiffened Box Girders, David J. Malcolm and Richard G. Redwood, ST7:July 70: 1403:7409
Tapered Box Girders of Deformable Cross Section, Vladimir Kristek, ST8:Aug 70:1761:7489
Torsion Analysis of Heavy Box Beams in Structures, Frederick A. Smith, Jr., Francis M. Thomas and James O. Smith, ST3:Mar 70:613:7165

Box Girders

Behavior Under Load of Composite Box-Girder Bridges, Alan H. Mattock and Sterling B. Johnston, ST10:Oct 68:2351:6168

Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7:July 73:1439:9854
Irregular Supports and Skew Diaphragms of Box Girders, Vladimir Kristek, ST5:May 74:917:10541
Plastic Behavior of Hollow Structural Sections, Robert M. Korol and John Hudoba, ST5:May 72:1007:8872
Poor Structural Design Brings West Gate Bridge Failure, John J. Kozak and Charles Seim, CE:June 72:47
Railway Box-Girder Bridge Erected by Launching, Jackson L. Durkee, ST7:July 72:1443:9028
Steel Box-Girder Bridges—Ultimate Strength Considerations, Charles G. Culver, Chmn., ST12:Dec 74:2433:11014
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021

Bracing
Behavior of Composite-Beam to Column Joints, J. Hartley Daniels, Geoffrey D. Kroll and John W. Fisher, ST3:Mar 70:671:7173
Benefits of Tunnel Measurements, Larry H. Heflin, EFSE:Aug 74:366
Braced Excavations, T. William Lambe and Edmund K. Turner, LS:70:149
Circular Discontinuously Braced Excavation (In Spanish), Andres Perez M., 4PCSM:71:II203
Columns Braced by Girts and a Diaphragm, Tamirisa V.S.R. Apparao, Samuel J. Errera and Gordon P. Fisher, ST5:May 69:965:6576
Criteria for Lateral Pressures for Braced Cuts, William J. Armento, PES:72:I-1283
Design for Stability in High Rise Buildings, State-of-Art Report 2, Jerome S.B. Iffland, TB:73:II-16-445
Excavations and Deep Foundations, T. D. Dismuke, TB:73:Ia-11-1014
Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675
Multistory Prefabricated Columns, German R. Gurfinkel, CO2:Oct 70:137:7587
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257
Performance of Bracing for Deep Chicago Excavation, Edwin Paul Swatek, Jr., Sherwin P. Asrow and Arthur M. Seitz, PES:72:I-1303
Plane Strain Approximations in Finite Element Analyses of Temporary Walls, Yuet Tsui and Gerald W. Clough, GT74:June 74:173
Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279
Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, M. R. Horne, TB:73:II-15-311
Predicting Performance of Braced Excavations, T. William Lambe, PES:73:III-255
Seismic Response of One Story X-Braced Frames, Enrique Bazan and Emilio Rosenblueth, TN: ST2:Feb 74:489:10341
Slurry Wall Construction for BART Civic Center Subway Station, J. George Thon and Richard C. Harlan, SM9:Sept 71:1317:8361
Stability of Braced and Unbraced Frames, James H. Davison and Peter F. Adams, ST2:Feb 74:319:10371
Stability, Theme Report, George Winter, TB:73:II-16-409
Stiffness Requirements for Lateral Bracing, Bruce R. Mutton and Nicholas S. Trahair, ST10:Oct 73:2167:10086

Branches
Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215
Economic Pipe Sizing for Gravity Sprinkler Systems, Roland P. Perold, IR2:June 74:107:10583
Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227
General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205
Some Basic Concepts on Flow in Branching Conduits (Abstract), James R. Villemonte, HYB:Aug 73:203

Brazil
Artificial Nourishment of Copacabana Beach, Daniel Vera-Cruz, CE13:72:II-1451
Effectiveness of Cut-offs under Three Earth Dams, Milton Vargas, 4PCSM:71:II257
Dsc, Request for Technical Publications, Marcelo Fernandes Cascione, CE:Aug 72:64
Rio Grande Bar - The Case History of a Lagoon Outlet into a Tideless Sea, V. F. Motta, 12CEC:71:1243
Seepage Control in the Rio Jaguari Dam and Dike, Lincoln de A. Queiroz, Hamilton G. de Oliveira, Ruy Taiji Mori and Francisco Nazario, 4PCSM:71:II293
South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, Nilo Andrade Amaral, TB:73:III-20-57

Breakeven Point
Economic Pipe Sizing in Pumped Irrigation Systems, Roland P. Perold, IR4:Dec 74:425:10988

Breaking Load
Anchor Zone Stresses in Prestressed and Concrete Beams, Kashi T. Sundara Raja Iyengar, Raja Sundara and Mandanapalli K. Prabhakara, ST3:Mar 71:807:7961

Breakwaters
Armor Stability of Overtopped Breakwater, Patrick T. Lording and John R. Scott, WW2:May 71:341:8138
Breakwater and Quay Wall by Horizontal Plates, Takeshi Ijima, Shigeo Ozaki, Yasuhiko Eguchi and Akira Kobayashi, 12CEC:71:1537
Breakwater Built With Concrete Piles, Thomas F. Plodowski, CE:Apr 72:80
Burns Harbor-New Lake Port in Indiana, John H. McGavock, CE:Mar 70:36
Computer Modelling of Diffraction of Wind Waves, Per Moller Bruun and Leon Emry Borgman, 12CEC:71:473
Consideration on Factors in Breakwater Model Tests, Yvon Ouellet, CE13:72:III-1809
Damage Function of Rubble-Mound Breakwaters, Jacobus van de Kreeke, WW3:Aug 69:345:6743
Damage Functions for a Rubble-mound Breakwater Under the Effect of Swells, Juan B. Font, 12CEC:71:1567
Damping Effect of Floating Breakwater, Juichi Kato, Thoshifumi Noma, Yukio Uekita and Seiya Hagino, WW3:Aug 69:337:6733
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Design of Filter System for Rubble-Mound Structures, Theodore T. Lee, CE13:72:III-1917
Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, Yvon Ouellet, WW1:Feb 72:1:8693
Floating Breakwater for Reservoir Marinas, Kenneth Chen and Robert L. Wiegel, 12CEC:71:1647
Floating Breakwaters, David S. Miller, CE:Mar 74:77
Head Loss at Tsunami-Breakwater Opening, Yoshiyuki Ito, 12CEC:71:2123
Honolulu Reef Runway Dike, Robert Q. Palmer and James R. Walker, 12CEC:71:1629
Irregular Wave Action on Rubble-Mound Breakwaters, Aysen Ergin and Serif Pora, WW2:May 71:279:8114
Jamaica Bay Hurricane Barrier, Frank L. Panuzio, 12CEC:71:2069
Large Area Wave-Load Meter, M. Geleedst and H. H. Hart, WW4:Nov 68:415:6209
Model Study of Transformation of Tsunamis in Urado Bay, Shigehisa Nakamura, Yuichi Iwagaki and Yoshito Tsuchiya, 12CEC:71:2089
Modular Systems Make Shore Protection Economical, Carl R. Wilder and Earl R. Koller, CE:Oct 71:60
Numerical Model for Wave Pressure Distributions, J. Richard Weggel and W. Hall C. Maxwell, WW3:Aug 70:623:7467

On the Need of Wave Data for the Design of Rubble-Mound Breakwaters, Yvon Ouellet, WAVES:Sept 74:500

On Wave Damping in Harbors, Charles E. Lee, WW4:Nov 68:489:6241

Piling-Up Behind Low and Submerged Permeable Breakwaters, Mordechai H. Diskin, Michael L. Vajda and Illan Amir, WW2:May 70:359:7283

Port Construction At Burns Waterway Harbor, John H. McGavock, Norman R. Loesing and Elvis R. Dye, CO1:Mar 71:17:7990

Pressures of Partial Standing Waves on Vertical Walls, Shoshichiro Nagai, WW3:Aug 68:273:6054

Pressure Upon Vertical Walls from Overtopping Waves, M. E. Plakida, CE13:72:III-1661

Prestressed Concrete Simplifies Construction of Breakwater/Wharf, C. A. Ponder and P. S. Belyea, CE:Jan 69:58

Rio Grande Bar - The Case History of a Lagoon Outlet into a Tideless Sea, V. F. Motta, 12CEC:71:1243

Scale Effects in Rubble-Mound Breakwaters, Kenneth W. Wilson and Ralph H. Cross, III, CE13:72:III-1873

Sea-Bed Configuration in Relation to Breakwater Stability, J. H. van Oorschot and A. Wevers, CE13:72:II-1543

Shock Pressure on Coastal Structures, Adel M. Kamel, WW3:Aug 70:689:7487

Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4:Nov 72:443:9318

A Study On Construction Of Floating Breakwaters Or Floating Platforms, Tae Sang Won, CEO-II:70:943

Use of Asphalt in Breakwater Construction, K. d'Angremond, H. J. Th. Span, J. van der Weide and A. J. Woestenenk, 12CEC:71:1601

Variation of Topography of Sea-bed Caused by the Construction of Breakwaters, Shoji Sato and Isao Irie, 12CEC:71:1301

Wave Attenuation by a Porous Walled Breakwater, Eugene P. Richey and Charles K. Sollitt, CEO-II:70:903

Wave Attenuation by Fluid Filled Bags, Harald D. Frederiksen, WW1:Feb 71:73:7874

Wave Attenuation by Porous Walled Breakwater, Eugene P. Richey and Charles K. Sollitt, WW3:Aug 70:643:7468

Wave Defraction by Detached Breakwater, Michael Stiassnie and Gedeon Dagan, WW2:May 72:209:8869

Wave-Maze Floating Breakwater, H. Morgan Noble, CEO-II:70:929

Wave Refraction Near San Pedro Bay, California, Yuan Jen, WW3:Aug 69:379:6749

Waves in a Harbor with Protruding Breakwaters, Chiang C. Mei and Ricardo V. Petroni, WW2:May 73:209:9700

Wave Statistics and Rubble Mound Structures, J. Ian Collins, WAVES:Sept 74:486

Wave Transmission by Overtopping, Ralph H. Cross, III and Charles K. Sollitt, WW3:Aug 72:295:9137

Wave Transmission Through Permeable Breakwaters, Charles K. Sollitt and Ralph H. Cross, III, CE13:72:III-1827

Weak Reflection of Water Waves by Bottom Obstacles, Chiang C. Mei, EM1:Feb 69:183:6401

Brick Construction

Masonry Construction Operations, Clayford T. Grimm, CO2:June 74:171:10630

Brick Masonry

Masonry Construction Operations, Clayford T. Grimm, CO2:June 74:171:10630

Bricks

Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5:May 72:1119:8916

Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839

Hypothesis for Shear Failure of Brickwork, Bryan Stafford Smith and Clifford Carter, ST4:Apr 71:1055:8029

Investigation of Polymer-Impregnated Brick Masonry, David W. Fowler and Thomas J. Fraley, ST1:Jan 74:1:10278

Masonry Building Systems, State-of-Art Report 9, Alan H. Yorkdale, TB:73:Ia-3-567

Reinforced Masonry Bearing Walls Used in 13-Story Buildings, Robert F. Higgins, CE:Nov 70:40

Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593:8143

Weather Effects on Mason Productivity, Clayford T. Grimm and Norman K. Wagner, CO3:Sept 74:319:10783

Brick Structures

Hypothesis for Shear Failure of Brickwork, Bryan Stafford Smith and Clifford Carter, ST4:Apr 71:1055:8029

Bridge Abutments

Bridge Design Considering Scour and Risk, Emmett M. Laursen, TE2:May 70:149:7262

Bridge Approaches

Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391:9740

New Highway Bridge Dimensions for Safety, John N. Clary, TE2:May 71:371:8152

Plastic Foam Serves as Lightweight Fill, Thomas A. Coleman, CE:Feb 74:68

Redesign Modernizes Old Bridge, Jim D. King and Harry R. Powell, CE:Nov 70:37

Three Support Systems Used to Build Bridge Substructure, Kristian Tonning, CE:Dec 71:43

Bridge Construction

Bridge Construction Surveying, Ray W. Burgan, Jr., CO2:June 74:105:10602

Brooklyn Bridge Superstructure -- 1876-1973 and Beyond, Carl H. Gronquist and Blair Birdsall, CEWAU:74:52

Construction of the Foundations and Towers of the Brooklyn Bridge, George F. Flay, Jr., CEWAU:74:36

Namhae Suspension Bridge, Hackjoo Hwang and Lawrence Chung Lee, CE:Oct 74:50

Oregon Gets a Segmental Post-Tensioned Bridge, L. F. Pierce, CE:Mar 72:67

Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, CE:May 74:58

Three Support Systems Used to Build Bridge Substructure, Kristian Tonning, CE:Dec 71:43

Bridge Decks

Bonded Concrete Overlays, Raouf Sinno and Howard L. Furr, ST8:Aug 70:1627:7450

Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35

Empirical Frequency Analysis of Bridge Deck Slabs, Simon F. Ng and Garnesh G. Kulkarni, TN: ST4:Apr 74:842:10456

Indicial Aerodynamic Functions for Bridge Decks, Robert H. Scanlan, Jean-Guy Beliveau and Kathleen S. Budlong, EM4:Aug 74:657:10709

Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326

Thermal Stresses and Movements in Bridges, Joseph C. Reynolds and Jack H. Emanuel, ST1:Jan 74:63:10275

Bridge Design

Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37

"Highway Safety, Design and Operations, Narrow Bridges-Driver Dilemmas," report of hearings before the Subcommittee on Investigations and Review of the Committee on Public Works, House of Representatives (Book Review), Frederick Reickert, CE:Apr 74:36

Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069

Ultimate Strength of Concrete Box Girder Bridge, Jack G. Bouwkamp, Alexander C. Scordelis and S. Tanvir Wasti, ST1:Jan 74:31:10293

Bridge Failure

Inspect Bridges Now, Avoid Problems Later, Chester F. Comstock, CE:Nov 71:66

Poor Structural Design Brings West Gate Bridge Failure, John J. Kozak and Charles Seim, CE:June 72:47

Steel Box-Girder Bridges—Ultimate Strength Considerations, Charles G. Culver, Chmn., ST12: Dec 74:2433:11014

Structural Failures: Modes, Causes, Responsibilities, Neal FitzSimons, Chmn., STF:73, 111pp.

Bridge Foundations

Construction of the Foundations and Towers of the Brooklyn Bridge, George F. Flay, Jr., CEWAU:74: 36

Designing Computer Programs for Bridge Foundations, E. F. Roberts and M. Lohrmann, CE: Dec 71:64

Measuring Pile Deflections With Inclinometer, Jai B. Kim and Robert J. Brungraber, TN: GT7:July 74: 867:10641

Bridge Piers

Analytical Model for Prediction of Ice-Structure Interaction, Hudson Matlock, William P. Dawkins and John J. Panak, EM4:Aug 71:1083:8282

Bridge Piers-Hydrodynamic Force Coefficients, Colin J. Apelt and Lewis T. Isaacs, HY1:Jan 68:17:5707

Computer Determination of Flow Through Bridges, Bill S. Eichert and John Peters, HY7:July 70:1455: 7412

Conquering Conneaut Marsh, Joseph S. Goff, CE: May 69:43

Bridges (Arch)

Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102

Bayonne River Bridge, Claude Bourgeois, CE:June 69:43

Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885

Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862

Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62

Least-Weight Frameworks for Loads Across Span, Richard E. McConnel, EM5:Oct 74:885:10872

Longest Concrete-Arch Bridge in North America, Ernest C. Harris and John A. Talbott, CE:July 72: 49

Milwaukee Boosts 600 Ft Steel Arch, Joseph H. Looper and Robert W. Anzia, CE:Jan 74:62

Timber-Arch Falsework for Concrete Arch Bridges, E. George Stern, CE:Feb 70:69

Bridges (Box Girder)

Aerodynamic Investigations of Box Girder Bridges, Ali Sabzevari and Robert H Scanlan, ST7:July 69: 1517:6684

Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73: 799:9715

Analysis of Horizontally Curved Box Girder Bridges, Kuang-Han Chu and Suresh G. Pinjarkar, ST10:Oct 71:2481:8453

Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168

Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7: July 72:1377:9013

Concrete Box-Girder Bridges as Sandwich Plates, J. G. Arendts and Wallace W. Sanders, Jr., ST11:Nov 70:2353:7695

Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35

Elastic Buckling of Stiffened Plates, Charles G. Culver and Clive L. Dym, TN: ST11:Nov 72:2641: 9374

Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7: July 73:1439:9854

First Segmental Bridge in U.S., Wayne Henneberger and John E. Breen, CE:June 74:54

"Inquiry into the Basis of Design and Method of Erection of Steel Box-Girder Bridges" by Merrison Committee (Book Review), Roman Wolchuk, CE: Feb 74:26

Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603

Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1: Feb 73:201:9576

Montreal Boasts Cable-Stayed Bridge, Jean-Guy Demers and Ole Simonsen, CE:Aug 71:59

Multicell Curved Girder Model Studies, Conrad P. Heins, Jr., Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835

Oregon Gets a Segmental Post-Tensioned Bridge, L. F. Pierce, CE:Mar 72:67

Poor Structural Design Brings West Gate Bridge Failure, John J. Kozak and Charles Seim, CE:June 72:47

Railway Box-Girder Bridge Erected by Launching, Jackson L. Durkee, ST7:July 72:1443:9028

Steel Box-Girder Bridges—Ultimate Strength Considerations, Charles G. Culver, Chmn., ST12: Dec 74:2433:11014

Steel Box Girder Makes Handsome Bridge, Jack P. Shedd, CE:May 73:67

Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069

Torsional Analysis of Box-Girder Suspension Bridges, H. Max Irvine, ST4:Apr 74:789:10464

Ultimate Strength of Concrete Box Girder Bridge, Jack G. Bouwkamp, Alexander C. Scordelis and S. Tanvir Wasti, ST1:Jan 74:31:10293

Bridges (Cable-Stayed)

Analysis of Cable-Stayed Girder Bridges, Man-Chung Tang, ST5:May 71:1481:8116

Bridge Features Cable Stays, Precast Segmental Deck, Herbert B. Rothman and Fu-Kuei Chang, CE:Mar 74:56

Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35

Design of Cable-Stayed Girder Bridges, Man-Chung Tang, ST8:Aug 72:1789:9151

Dynamic Analysis of Cable-Stiffened Structures, Nicholas F. Morris, ST5:May 74:971:10556

Europe's Dramatic Cable-Stayed Bridges, Allen Firmage, CE:Sept 74:107

First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50

Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201

Load Balancing Analysis of Cable Stayed Bridges, Benjamin E. Lazar, Michael S. Troitsky and Matthew McC. Douglass, ST8:Aug 72:1725:9122

Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71: 2837:8604

Stiffness-Analysis of Cable-Stayed Bridges, Benjamin E. Lazar, ST7:July 72:1605:9036

Bridges (Cantilever)

Analysis of Dynamic Response of Highway Bridgeu, Anestis S. Veletsos and Tseng Huang, EM5:Oct 70: 593:7591

Pine Valley Creek--a First, A. P. Bezzone, CE:Aug 74:72

Bridges (Concrete)

An American Engineer in Israel, Irving Kett, CE: June 72:63

Bridge Features Precast Girders and Struts, Donald D. Casad and Halvard W. Birkeland, CE:July 70:42

Concrete Box-Girder Bridges as Sandwich Plates, J. G. Arendts and Wallace W. Sanders, Jr., ST11:Nov 70:2353:7695
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Displacements and Losses in Multistage Prestressed Members, Amin Ghali, Romy G. Sisodiya and Gamil S. Tadros, ST11:Nov 74:2307:10968
Epoxy Injections Repair Historic Prestress Concrete Bridge, Henry G. Garfield, CE:Mar 71:39
A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
First Segmental Bridge in U.S., Wayne Henneberger and John E. Breen, CE:June 74:54
Hyperbolic Functions for Prestress Loss and Camber, Raouf Sinno and Howard L. Furr, ST4:Apr 70:803:7227
Longest Concrete-Arch Bridge in North America, Ernest C. Harris and John A. Talbott, CE:July 72:49
Longest Prestressed Girders for New York City Bridge, Robert Cuccioli, CE:Apr 71:72
Long-Span Bridge: Utility, Grace at Low Cost, Harry M. Montgomery and Roger D. Troxell, CE:May 72:73
The Mechanics of Impact and Evaluation of the Hydrodynamic Mass, Brendan F. Saurin, BMS:71:192
Need For Diaphragms in Concrete Box Girders, Denison Campbell-Allen and Raymond J.L. Wedgwood, ST3:Mar 71:825:7965
Pine Valley Creek--a First, A. P. Bezzone, CE:Aug 74:72
Prestressed Concrete Developments Around the World, Ben C. Gerwick, Jr., CE:Dec 70:55
Prestressed Precast Concrete Railroad Bridges, Robert M. Barton, ST12:Dec 68:2885:6302
Seismic Response Predictions of Bridge Pier, Robin Shepherd and Richard E. McConnel, EM3:June 72:609:8949
Structural-Design Innovations in Japanese National Railways, Tatsuo Nishiki, Hidehiko Abe and Yoshio Ozaka, CE:Nov 69:60
Tie-Downs and Inclined Legs Lead to Slender Graceful Overpass, B. P. Dowsley and W. W. Irwin, CE:July 69:64
Two Prestressed Concrete Bridges in Pakistan, Donovan H. Lee, CE:Oct 69:61
World's Top Prestressed Structures, 1970-74, CE:Aug 74:68

Bridges (Decking)

Analysis of Orthotropic Steel Plate Bridge Decks, Graham H. Powell and David W. Ogden, ST5:May 69:909:6563
Bridge Deck Deterioration and Crack Control, Joseph P. Callahan, James L. Lott and Clyde E. Kesler, ST10:Oct 70:2021:7579
Bridge Features Cable Stays, Precast Segmental Deck, Herbert B. Rothman and Fu-Kuei Chang, CE:Mar 74:56
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
Horizontal Thermal Movement of Curved Bridge Decks, Heinz G. Juhl, ST10:Oct 70:2037:7590
Namhae Suspension Bridge, Hackjoo Hwang and Lawrence Chung Lee, CE:Oct 74:50
Redesign Modernizes Old Bridge, Jim D. King and Harry R. Powell, CE:Nov 70:37
Repairs Delaminated Bridge Decks, Carl F. Crumpton, Bruce F. McCollom and F. Wayne Stratton, CE:Nov 74:55
Thermal Movement Of Bridge Decks, Ganpat S. Pandit, TN: ST8:Aug 72:1899:9086

Bridges (Girder)

Analysis of Box Girders with Diaphragms, Sana R. Abdel-Samad, Richard N. Wright and Arthur R. Robinson, ST10:Oct 68:2231:6153
Analysis of Curved Girder Bridges, Lansford C Bell and Conrad P Heins, Jr., ST8:Aug 70:1657:7462
Analysis of Multibeam Bridges, Graham H. Powell, Amitava Ghose and Ian G. Buckle, ST9:Sept 69:1953:6796
Analysis of Three Dimensional Thin-Walled Structures, Bharat L. Mehrotra, Aftab A. Mufti and Richard G. Redwood, ST12:Dec 69:2863:6968
Box Girder Model Studies, Dennis E. Myers and Peter B. Cooper, ST12:Dec 69:2845:6966
Commentary on Orthotropic-Deck Bridge Specifications by the Task Committee on Orthotropic Plate Bridges of the Committee on Metals of the Structural Division, Charles G. Schilling, Chmn., ST1:Jan 74:109:10273
Design of Cable-Stayed Girder Bridges, Man-Chung Tang, ST8:Aug 72:1789:9151
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50
Fracture Analysis of King's Bridge, Melbourne, Ronald B. Madison and George R. Irwin, ST9:Sept 71:2229:8377
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
Impact from Railway Loading on Steel Girder Spans, William G Byers, ST6:June 70:1093:7341
Multicell Curved Girder Model Studies, Conrad P. Heins, Jr., Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835
Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848
Progress Report on Steel Box Girder Bridges, Subcommittee on Box Girders of the ASCE-AASHO Task Committee on Flexural Members, Theodore V. Galambos, Chmn., ST4:Apr 71:1175:8068
Shear Lag in Stiffened Box Girders, David J. Malcolm and Richard G. Redwood, ST7:July 70:1403:7409
Skew and Elevated Support Effects on Curved Bridges, Donald W. Funkhouser and Conrad P. Heins, Jr., ST7:July 74:1379:10670
Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovio, ST9:Sept 72:2059:9193
Static Model Tests of Curved Girder Bridge, Charles G. Culver and Paul P. Christiano, ST8:Aug 69:1599:6712
Steel Box Girders Highlight Design of I-480 in Omaha, G. C. Strobel, CE:Dec 69:66
Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73:335:9627
Theoretical Analysis of Curved Girder Bridges, Terry R. Douglas and Samuel C. Gambrell, Jr., EM5:Oct 74:991:10871
81-ft Model of Prestressed Bridge, CE:Oct 72:83

Bridges (Highway)

Airport Overpass is technical esthetic winner, Yue-Chyou Yang and Kam-Shing Lo, CE:July 74:50
Errors in Step Wise Solutions to Bridge Vibrations, David R. Schelling, ST10:Oct 70:2045:7600
Fatigue Life Of Multilane Highway Bridges, Chi C. Tung, TN: EM5:Oct 70:801:7573
Inspect Bridges Now, Avoid Problems Later, Chester F. Comstock, CE:Nov 71:66
Life Expectancy of Highway Bridges to Vehicle Loads, Chi C. Tung, EM6:Dec 69:1417:6976
Motorway Bridge Across Lillebaelt, by Chr. Ostenfeld et. al. (Book Review), M. Juul Hvorslev, CE:Dec 71:12
Response of Highway Bridges to Renewal Traffic Loads, Chi C. Tung, EM1:Feb 69:41:6383
Standard Specifications for Highway Bridges - New Edition (Book Review), W. J. Wilkes, CE:July 70:111

Tubular Sections in Highway Structures, Richard N. White, HW2:Nov 68:161:6227

Bridges (Lift)
Hydraulically Actuated Vertical Lift Bridge, George C. Ashton, CE:Oct 69:38

Bridges (Movable)
Multipurpose Land-Water Transfer Facility, C. Adrian Arnold, WW2:May 72:253:8903

Bridges (Orthotropic)
Bayonne River Bridge, Claude Bourgeois, CE:June 69:43
Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168
Bridge Tests Predicted by Finite Difference Plate Theory, Conrad P. Heins, Jr. and Charles T.G Looney, ST2:Feb 69:249:6421
Commentary on Orthotropic-Deck Bridge Specifications by the Task Committee on Orthotropic Plate Bridges of the Committee on Metals of the Structural Division, Charles G. Schilling, Chmn., ST1:Jan 74:109:10273
Effective Width of Steel Deck-Plate in Bridges, George Abdel-Sayed, ST7:July 69:1459:6673
Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62
Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326

Bridges (Piers)
Concrete Column Design by AASHO Specifications, Hans H. Fickel, ST4:Apr 71:1187:8070
Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
Eddy Formation Behind Circular Cylinders, Alan D. K. Laird, HY6:June 71:763:8170
Elastomeric Bridge Bearings, Charles E. Rejcha, CE:May 72:46
Hydrologic Evaluations in Bridge Pier Scour Design, Peter C. Klingeman, HY12:Dec 73:2175:10224
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
Longest Prestressed Girders for New York City Bridge, Robert Cuccioli, CE:Apr 71:72
Montreal Boasts Cable-Stayed Bridge, Jean-Guy Demers and Ole Simonsen, CE:Aug 71:59
New Highway Bridge Dimensions for Safety, John N. Clary, TE2:May 71:371:8152
Prestressed Concrete for County Bridge Solves Maintenance Problems, Frank J. Brechting, Jr., CE:June 70:74
Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833
Seismic Response Predictions of Bridge Pier, Robin Shepherd and Richard E. McConnel, EM3:June 72:609:8949
Tests of Scour Protection for Bridge Piers, Chesley J. Posey, HY12:Dec 74:1773:11017
Three Support Systems Used to Build Bridge Substructure, Kristian Tonning, CE:Dec 71:43

Bridges (Railroad)
Computer Technology in New Line and Relocation Planning, R. A. Stane, TE3:Aug 70:291:7458
Dumbarton Bridge Renewal, H. M. Williamson and T. L. Fuller, CE:July 69:44
Dynamics of Cambered Rapid-Transit Bridge, Nelson M. Isada, ST7:July 69:1553:6701
Eads Bridge Repaired by Jacking, Bernard H. Spinner, CE:June 71:50
Load Distribution in Steel Railway Bridges, Wallace W. Sanders, Jr. and William H. Munse, ST12:Dec 69:2763:6952
Long-Span Steel Deck Railroad Bridge, Roman Wolchuk and J. C. Bridgefarmer, CE:Apr 70:71
Railway Box-Girder Bridge Erected by Launching, Jackson L. Durkee, ST7:July 72:1443:9028
Recorded Stress Histories in Railroad Bridges, Freeman P. Drew, ST12:Dec 68:2713:6288

Bridges (Spans)
Lateral Wind on Side Spans of Suspension Bridges, Ahmet H. Gursoy, ST10:Oct 68:2399:6175
Long-Span Bridge: Utility, Grace at Low Cost, Harry M. Montgomery and Roger D. Troxell, CE:May 72:73
Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848

Bridges (Steel)
Hardinge Bridge Span Repair, Amitabha Ghosal, Jagadish C. Ganguly, Himangsu K. Banerjee and Mahesh P. Kapoor, CO4:Dec 74:631:11034
Hydraulically Actuated Vertical Lift Bridge, George C. Ashton, CE:Oct 69:38
Inspection of Steel Bridges For Fatigue Damage, by the Subcommittee on Inspection of Steel Bridges for Fatigue of the Task Committee on Structural Fatigue of the Structural Division, Ivan M. Viest, Chmn., ST8:Aug 71:2107:8321
A Kansas County Replaced Old Bridges Economically, John W. Frazier, CE:Jan 70:68
Load Distribution in Steel Railway Bridges, Wallace W. Sanders, Jr. and William H. Munse, ST12:Dec 69:2763:6952
Progress Report on Steel Box Girder Bridges, Subcommittee on Box Girders of the ASCE-AASHO Task Committee on Flexural Members, Theodore V. Galambos, Chmn., ST4:Apr 71:1175:8068
Steel Box-Girder Bridges—Ultimate Strength Considerations, Charles G. Culver, Chmn., ST12:Dec 74:2433:11014
Steel Box Girders Highlight Design of I-480 in Omaha, G. C. Strobel, CE:Dec 69:66

Bridges (Structures)
Aerodynamic Investigations of Box Girder Bridges, Ali Sabzevari and Robert H Scanlan, ST7:July 69:1517:6684
Analysis of Cable-Stayed Girder Bridges, Man-Chung Tang, ST5:May 71:1481:8116
Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73:799:9715
Analysis of Dynamic Response of Highway Bridgeu, Anestis S. Veletsos and Tseng Huang, EM5:Oct 70:593:7591
Analysis of Horizontally Curved Box Girder Bridges, Kuang-Han Chu and Suresh G. Pinjarkar, ST10:Oct 71:2481:8453
Analysis of Ribbed Plates, Donald L. Dean and Cyrus Omid'varan, ST3:Mar 69:411:6474
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
Automatic Drafting System Aids Wisconsin Bridge Design, Leon J. Schuchardt, CE:Feb 70:38
Bayonne River Bridge, Claude Bourgeois, CE:June 69:43
Behavior of Prestressed Composite Beams, Ronald S. Reg and Nat W. Krahl, ST6:Dec 67:87:5663
Behavior Under Load of Composite Box-Girder Bridges, Alan H. Mattock and Sterling B. Johnston, ST10:Oct 68:2351:6168
Bigger Bridge Loads Coming-Will We Be Ready, Arthur L. Elliott, CE:Feb 69:52
Bolted Galvanized Bridges-Engineering Acceptance Near, Peter C. Birkemoe and D. C. Herrschaft, CE:Apr 70:42
Box Girder Model Studies, Dennis E. Myers and Peter B. Cooper, ST12:Dec 69:2845:6966
Bridge Backwater in Wide Valleys, Emmett M. Laursen, HY4:Apr 70:1019:7246
Bridge Construction Surveying, Ray W. Burgan, Jr., CO2:June 74:105:10602
Bridge Deck Protection and Resurfacing, Roland A. Pettitt, ST4:Apr 70:791:7217

Bridge Engineer Looks at Esthetics of Structures, Reece H. Wengenroth, ST4:Apr 71:1227:8074
Bridge Features Cable Stays, Precast Segmental Deck, Herbert B. Rothman and Fu-Kuei Chang, CE:Mar 74:56
Dsc, Bridge Substructure Design, Ashok Kumar Chugh, CE:Feb 72:63
Bridge Tests Predicted by Finite Difference Plate Theory, Conrad P. Heins, Jr. and Charles T.G. Looney, ST2:Feb 69:249:6421
Brooklyn Bridge -- Introduction, M. D. Morris, CEWAU:74:25
Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885
Commentary on Orthotropic-Deck Bridge Specifications by the Task Committee on Orthotropic Plate Bridges of the Committee on Metals of the Structural Division, Charles G. Schilling, Chmn., ST1:Jan 74:109:10273
Concrete Box-Girder Bridges as Sandwich Plates, J. G. Arendts and Wallace W. Sanders, Jr., ST11:Nov 70:2353:7695
Control Surveys for Major Bridges, Normand L. Moore and Richard G. Begell, SU1:May 71:83:8098
Criteria for Heat Curving Steel Beams and Girders, Roger L Brockenbrough, ST10:Oct 70:2209:7638
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
Design of Cable-Stayed Girder Bridges, Man-Chung Tang, ST8:Aug 72:1789:9151
Design Requirements for Safer Highway Bridge Rails, Robert M. Olson, Edward R. Post and Don L. Ivey, TE2:May 71:291:8125
Direct Design of Taut Cables under Uniform Loading, Anthony J. Wilson and Robert J. Wheen, ST3:Mar 74:565:10427
Displacements and Losses in Multistage Prestressed Members, Amin Ghali, Romy G. Sisodiya and Gamil S. Tadros, ST11:Nov 74:2307:10968
Dynamic Analysis of Cable-Stiffened Structures, Nicholas F. Morris, ST5:May 74:971:10556
Dynamic K_c Testing of Structural Steel, Ronald B. Madison and George R. Irwin, ST7:July 74·1331:10653
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
Eigenvalue Analysis of Structures by Folding Force, Itio Hirai and Torazo Yoshimura, EM6:Dec 70:1081:7728
Ellet's Contribution to the Development of Suspension Bridges, Emory L. Kemp, PP3:July 73:331:9872
Empirical Frequency Analysis of Bridge Deck Slabs, Simon F. Ng and Garnesh G. Kulkarni, TN: ST4:Apr 74:842:10456
Epoxy Injections Repair Historic Prestress Concrete Bridge, Henry G. Garfield, CE:Mar 71:39
Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62
Experimental Stresses and Strains from Heat Curving, Roger L. Brockenbrough and Kenneth D. Ives, ST7:July 70:1305:7400
Field Analysis of Torsionless Bridge Grids, J. C. Smith and Donald L. Dean, ST9:Sept 73:1837:10031
Field Tests of Aluminum Orthotropic Bridge Deck, Maurice L. Sharp, ST11:Nov 69:2463:6920
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Grid Moment Maximization by Mathematical Programming, Francois N. Ayer and C. Allin Cornell, ST2:Feb 68:529:5818
Handsome Civil Engineering Structures, CE:May 70:56
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
Horizontally Curved Bridges Subject to Moving Load, Paul P. Christiano and Charles G. Culver, ST8:Aug 69:1615:6713
Horizontal Thermal Movement of Curved Bridge Decks, Heinz G. Juhl, ST10:Oct 70:2037:7590
Influence Surfaces for Curved Multibeam Bridges, Cenap Oran and Sheng Ching Lin, ST7:July 73:1349:9846
A Kansas County Replaced Old Bridges Economically, John W. Frazier, CE:Jan 70:68
Load Distribution in Steel Railway Bridges, Wallace W. Sanders, Jr. and William H. Munse, ST12:Dec 69:2763:6952
Dsc, Loaded Question, Ashok Kumar Chugh, CE: June 72:64
Longest Prestressed Girders for New York City Bridge, Robert Cuccioli, CE:Apr 71:72
Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71:2837:8604
Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165:8631
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998
Montreal Boasts Cable-Stayed Bridge, Jean-Guy Demers and Ole Simonsen, CE:Aug 71:59
Multicell Curved Girder Model Studies, Conrad P. Heins, Jr., Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835
New Highway Bridge Dimensions for Safety, John N. Clary, TE2:May 71:371:8152
New York City Hall, Alfred C. Maevis, CEWAU:74:33
Optimum Proportions for I-Shaped Beams, Charles G. Schilling, ST12:Dec 74:2385:11007
Oregon Gets a Segmental Post-Tensioned Bridge, L. F. Pierce, CE:Mar 72:67
Overloads on Japan's 130 mph Railroad Structures, Tatsuo Nishiki and Shunta Shiraishi, ST6:June 70:1017:7325
Parallel Processing Approach to Bridge Planning, Andrew K.C. Wong and Tung Au, ST1:Jan 71:115:7822
Prefabricated Highways, William Zuk, TE2:May 72:387:8895
Prestressed Concrete for County Bridge Solves Maintenance Problems, Frank J. Brechting, Jr., CE: June 70:74
Prestressed Precast Concrete Railroad Bridges, Robert M. Barton, ST12:Dec 68:2885:6302
Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833
Railway Box-Girder Bridge Erected by Launching, Jackson L. Durkee, ST7:July 72:1443:9028
Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326
Redesign Modernizes Old Bridge, Jim D. King and Harry R. Powell, CE:Nov 70:37
Research On Steel-Concrete Composite Beams, R. Paul Johnson, ST3:Mar 70:445:7122
Response of Horizontally Curved Bridge to Moving Load, Chen Pang Tan and Sidney Shore, ST9:Sept 68:2135:6125
Saint Louis Bay Bridge, Richard E. Whitaker, CO2: Oct 70:149:7588
The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE: Sept 72:95
Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135
Shakedown of Grids, Dale G. Eyre and Theodore V. Galambos, ST10:Oct 73:2049:10049

Shakedown Tests on Steel Bars and Beams, Dale G. Eyre and Theodore V. Galambos, ST7:July 70: 1287:7395
Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
Stability Problems of Wood Truss Bridge, Oscar M. Hahn, ST2:Feb 70:353:7095
Static Model Tests of Curved Girder Bridge, Charles G. Culver and Paul P. Christiano, ST8:Aug 69: 1599:6712
Steel Box Girder Makes Handsome Bridge, Jack P. Shedd, CE:May 73:67
Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022
Stress Distribution in Castellated Beams, James A. Mandel, Paul J. Brennan, Benjamin A. Wasil and Charles M. Antoni, ST7:July 71:1947:8260
Structural-Design Innovations in Japanese National Railways, Tatsuo Nishiki, Hidehiko Abe and Yoshio Ozaka, CE:Nov 69:60
Structural Timber Research at Forest Products Lab, Fred Werren, ST12:Dec 69:2891:6980
Survey of Curved Girder Bridges, Roger L. Brockenbrough, Chmn., CE:Feb 73:54
Temporary Bypass Bridge Designed for Salvage, Alfred R. Pagan, CE:Mar 70:51
Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73: 335:9627
Theoretical Analysis of Curved Girder Bridges, Terry R. Douglas and Samuel C. Gambrell, Jr., EM5:Oct 74:991:10871
Theoretical Stresses and Strains from Heat Curving, Roger L Brockenbrough, ST7:July 70:1421:7410
Thermal Stresses and Movements in Bridges, Joseph C. Reynolds and Jack H. Emanuel, ST1:Jan 74:63: 10275
Two-Dimensional Analysis of Backwater at Bridges, J. Thomas Franques and Dannial W. Yannitell, HY3:Mar 74:379:10403
Two Prestressed Concrete Bridges in Pakistan, Donovan H. Lee, CE:Oct 69:61
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66
Viaducts—A Case Study, Rowland Richards, Jr. and David G. Elms, EI4:Oct 74:293:10845
Why Not Plastics Bridges?, Fred C. McCormick, ST8:Aug 72:1757:9143
The 1970's: Civil Engineering Forecast-Part I, Kneeland A. Godfrey, Jr., CE:Apr 70:68

Bridges (Suspension)
Aerodynamic Investigations of Box Girder Bridges, Ali Sabzevari and Robert H Scanlan, ST7:July 69: 1517:6684
Airfoil and Bridge Deck Flutter Derivatives, Robert H. Scanlan and John J. Tomko, EM6:Dec 71:1717: 8609
An Analysis of the Pt. Pleasant Bridge Investigation, Charles F. Scheffey, STF:73:77
Brooklyn Bridge -- Introduction, M. D. Morris, CEWAU:74:25
Brooklyn Bridge Superstructure -- 1876-1973 and Beyond, Carl H. Gronquist and Blair Birdsall, CEWAU:74:52
Construction of the Foundations and Towers of the Brooklyn Bridge, George F. Flay, Jr., CEWAU:74: 36
Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
Design and Construction of Newport Bridge, Alfred Hedefine and Herbert M. Mandel, ST11:Nov 71: 2635:8529
Direct Design of Taut Cables under Uniform Loading, Anthony J. Wilson and Robert J. Wheen, ST3:Mar 74:565:10427
Dynamic Analysis of Cable-Stiffened Structures, Nicholas F. Morris, ST5:May 74:971:10556
Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72: 1817:9127
Effect of Turbulence on Galloping Instability, Milos Novak and Hiroshi Tanaka, EM1:Feb 74:27:10338
Ellet's Contribution to the Development of Suspension Bridges, Emory L. Kemp, PP3:July 73: 331:9872
Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72
Field Observation of Tagus River Suspension Bridge, Jose Marecos, Mario Castanheta and J. Teixeira Trigo, ST4:Apr 69:555:6492
Inelastic Stiffened Suspension Space Structures, John J. Jonatowski and Charles Birnstiel, ST6:June 70: 1143:7364
Lateral Wind on Side Spans of Suspension Bridges, Ahmet H. Gursoy, ST10:Oct 68:2399:6175
Main Cables of Newport Suspension Bridge, Blair Birdsall, ST12:Dec 71:2825:8606
Namhae Suspension Bridge, Hackjoo Hwang and Lawrence Chung Lee, CE:Oct 74:50
A National Landmark, Robert E. White, CEWAU: 74:32
Newport Bridge Superstructure, Alfred Hedefine and Louis G. Silano, ST11:Nov 71:2653:8533
Newport Suspension Bridge, Alfred Hedefine and Louis G. Silano, CE:Aug 70:64
New York City Hall, Alfred C. Maevis, CEWAU:74: 33
Point Pleasant Bridge Collapse-Conclusions of the Federal Study, Charles F. Scheffey, CE:July 71:41
Point Pleasant Bridge Collapse Mechanism Analyzed, Daniel Dicker, CE:July 71:61
Self-Controlled Vibration of a Cylinder in a Fluid Stream, Giampaolo DiSilvio, EM2:Apr 69:347:6498
Severn River Suspension Bridge, Gilbert Roberts, CE: Aug 69:68
Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, TE1:Feb 74:207: 10329
Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, CE:May 74:58
Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321
Torsional Analysis of Box-Girder Suspension Bridges, H. Max Irvine, ST4:Apr 74:789:10464

Bridges (Truss)
Hardinge Bridge Span Repair, Amitabha Ghosal, Jagadish C. Ganguly, Himangsu K. Banerjee and Mahesh P. Kapoor, CO4:Dec 74:631:11034
Port Latta--Open Sea Loading Terminal, Paul Soros, CE:Jan 69:62

Bridge Towers
Construction of the Foundations and Towers of the Brooklyn Bridge, George F. Flay, Jr., CEWAU:74: 36
Europe's Dramatic Cable-Stayed Bridges, Allen Firmage, CE:Sept 74:107
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
Montreal Boasts Cable-Stayed Bridge, Jean-Guy Demers and Ole Simonsen, CE:Aug 71:59

Bridging
Arch Action and Bond in Concrete Shear Failures, Ramnath N. Swamy, Alexios Andriopoulos and Dotun Adepegba, ST6:June 70:1069:7338

Brightness
High-mount Interchange Lights, Richard C. LeVere, CE:May 71:44

Brittle Fractures
Brittle Failure of Steel Stack, Max Zar, PO1:July 74: 33:10650
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48
Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818
Fatigue and Fracture, Theme Report, A. A. van Douwen, TB:73:II-18-721
Theory of Brittle Fracture Applied to Soil Cement, Kalankamary P. George, SM3:May 70:991:7301

What Designers Should Know About Fracture Toughness, Arthur L. Elliott, CE:Apr 74:70

Brittle Fracture Theory

Brittle Failure of Steel Stack, Max Zar, PO1:July 74:33:10650

What Designers Should Know About Fracture Toughness, Arthur L. Elliott, CE:Apr 74:70

Brittle Fracturing

Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70

Brittleness

Bearing Capacity of Concrete Block or Rocks, Wai F. Chen and Daniel C. Drucker, EM4:Aug 69:955:6742

Bearing Capacity of Concrete Blocks, Wai F. Chen and Sergio Couarrubias, EM5:Oct 71:1413:8421

Brittle Failure of Steel Stack, Max Zar, PO1:July 74:33:10650

Dual Failure Criterion for Plain Concrete, Han-Chin Wu, EM6:Dec 74:1167:10996

Dynamic K_c Testing of Structural Steel, Ronald B. Madison and George R. Irwin, ST7:July 74:1331:10653

Fracture Mechanism in Concrete: How Much do We Know?, Sandor Popovics, EM3:June 69:531:6604

Lower Strength Steel Brittle Fracture Assessment, Mohammed H. Magued and D J. Laurie Kennedy, ST5:May 74:983:10551

Pore Fluid and Mechanical Behavior of Rock, F. H. Cornet, RM13:72:825

Broad-Crested Weirs

Brink Depth for Trapezoidal Broad-Crested Weir, Birendra N. Neogy, HY12:Dec 72:2171:9427

Characteristics of Flow Weirs of Finite Crest Width, Singamsetti Surya Rao and Manoj Kumar Shukla, HY11:Nov 71:1807:8515

Bromates

Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, NSCD:71:37

Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71:617:8425

Bromine

Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, NSCD:71:37

Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71:617:8425

Status of Methods for Halogen Determination (Br-Cl), Frank W. Sollo, Florence F. McGurk and Thurston E. Larson, NSCD:71:245

Brownian Movement

Stochastic Open Channel Flow, Chao-Lin Chiu, EM3:June 68:811:5999

Bubbles

Behavior of Small Gas Bubbles in Accelerated Liquid, Subba Rao Gutti, HY4:Aug 68:1073:6047

Jet-Induced Circulation and Diffusion, Constantin Rouse, HY2:Mar 69:589:6445

Movement of Small Gas Bubbles in Smoothly Decelerating Liquid, Subba Rao Gutti, HY7:July 71:117:8251

Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728

Buckling

Alternative Approach to Light-Gage Beam Design, James Rhodes and James M. Harvey, ST8:Aug 71:2119:8327

Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101

Analysis For Truss Buckling, Donald L. Dean and Frederick R. Jetter, TN: ST8:Aug 72:1893:9086

Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11:Nov 72:2605:9356

Analysis of Unbraced Multistory Steel Rigid Frames, E. Whitman Wright and Edwin H. Gaylord, ST5:May 68:1143:5944

Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771

Assured Upper Bounds via Complementary Energy, Carl H. Popelar, EM4:Aug 74:623:10704

Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5:Oct 72:1115:9247

Axial Load Design for Concrete Filled Steel Tubes, Robert B. Knowles and Robert Park, ST10:Oct 70:2125:7597

Beam Buckling by Finite Element Procedure, C. Philip Johnson and Kenneth M. Will, ST3:Mar 74:669:10432

Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6:Dec 72:1353:9441

Behavior of Continuous Crane Rails, Pavel J. Marek and J. Hartley Daniels, ST4:Apr 71:1081:8067

Bending of Deep Girders with A514 Steel Flanges, Phillip S. Carskaddan, ST10:Oct 69:2219:6839

Bending Strength of Aluminum Formed Sheet Members, J. R. Jombock and John W. Clark, ST2:Feb 68:511:5816

Bifurcation Analyses for Shallow Arches, Clive L. Dym, EM2:Apr 73:287:9649

Buckling Analysis of One-Story Frames, Alfred Zweig, ST9:Sept 68:2107:6118

Buckling and Post-Buckling of Spherical Caps, Nuri Akkas and Nelson R. Bauld, Jr., EM3:June 71:727:8189

Buckling and Vibrations of Polygonal and Rhombic Plates, Sanford B. Roberts, EM2:Apr 71:305:8030

Buckling Formulas for Design, John E. Goldberg, TB:73:II-16-581

Buckling Frequencies of Long Vertical Pipes, Tseng Huang and D. W. Dareing, EM1:Feb 69:167:6400

Buckling Loads of Nonuniform Columns, Chiyyarath V. Girijavallabhan, ST11:Nov 69:2419:6908

Buckling of Anisotropic Composite Plates, Christos C. Chamis, ST10:Oct 69:2119:6799

Buckling of Arbitrary Open Cylindrical Shells, Jack W. Vetter and Donald E. Boyd, EM1:Feb 72:177:8726

Buckling of Axially Loaded Cylindrical Panels, Pan San Hsueh and Alexander Chajes, EM3:June 71:919:8210

Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812

Buckling of Clamped Rectangular Plates, Lotfi El-Bayoumy, EM4:Aug 71:1277:8336

Buckling of Columns with Random Initial Displacements, Michael C. Bernard and John L. Bogdanoff, EM3:June 71:755:8194

Buckling of Composite Beams in Negative Bending, Sumio Hamada and Jack Longworth, ST11:Nov 74:2205:10917

Buckling of Continuous Circular Plates, A. S. J. Swamidas and Vincent X. Kunukkasseril, EM4:Aug 73:835:9900

Buckling of Continuously Supported Beams, Arnold D. Kerr, EM1:Feb 69:247:6422

Buckling of Cylindrical Shells by Wind Pressure, Yung-shih Wang and David P. Billington, EM5:Oct 74:1005:10874

Buckling of Finite Beams in Elastic Continuum, Madhira Radha Madhav and Edward H. Davis, EM6:Dec 74:1227:11033

Buckling of Fully and Partially Embedded Piles, Annapareddy Siva Reddy and Arun J. Valsangkar, SM6:Nov 70:1951:7688

Buckling of Inelastic I-Beams Under Uniform Moment, Nicholas S. Trahair and Sritawat Kitipornchai, ST11:Nov 72:2551:9339

Buckling of Inelastic Tapered Pin-Ended Columns, Franklin J. Appl and James O. Smith, EM2:Apr 68:549:5897

Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903
Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, Jacob Gluck and Menachem Gelbert, ST9:Sept 72:2031:9196
Buckling of Light-Gage Corrugated Metal Shear Diaphragms, John T. Easley and David E. McFarland, ST7:July 69:1497:6683
Buckling of Longitudinally Stiffened Sheets, Niels C. Lind, TN: ST7:July 73:1686:9828
Buckling of Multilayer Plates by Finite Elements, Harry R. Lundgren and Ahmed E. Salama, EM2: Apr 71:477:8051
Buckling of Naturally Curved and Twisted Beams, Irving U. Ojalvo and Malcolm Newman, EM5:Oct 68:1067:6156
Buckling of Open Cylindrical Shells with Imperfections, Peter Turula and Kuang-Han Chu, EM6:Dec 70:1125:7733
Buckling of Open Cylindrical Shells Under Lateral Load, Kuang-Han Chu and Peter Turula, EM6:Dec 70:1143:7736
Buckling Of Orthotropic Hyberbolic Paraboloid Shells, Peter Gergely, TN: ST1:Jan 72:395:8619
Buckling of Partially Embedded Piles in Sand, Kenneth L. Lee, SM1:Jan 68:255:5754
Buckling of Plates of Abruptly Varying Stiffness, P. Paramasivam and Jawalker K. Sridhar Rao, ST6: June 69:1313:6635
Buckling of Polar Orthotropic Annular Plates, Kaja Vijayakumar and C. V. Joga Rao, EM3:June 71: 701:8171
Buckling of Reinforced Concrete Plates, Stuart E. Swartz and Vernon H. Rosebraugh, ST1:Jan 74:195: 10280
Buckling of Reinforced Concrete Shells, P. Harvey Griggs, EM3:June 71:687:8173
Buckling of Rhombic Plates, Patricio A. Laura and Joseph Grosson, TN: EM1:Feb 71:145:7858
Buckling of Rigidly-Jointed Plane Trusses, Adel Helmy Salem, ST6:June 69:1271:6628
Buckling of Rings, Steven C. Batterman and Alan I. Soler, TN: EM6:Dec 70:1291:7715
Buckling of Shells: An Old Idea with a New Twist, John Roorda, EM3:June 72:531:8951
Buckling of Shells by Finite Element Method, G. Venkateswara Rao, I. S. Raju and S. K. Radhamohan, TN: EM5:Oct 74:1092:10856
Buckling of Simply Supported Folded Plates, Michel L. Mikhail and Sidney A. Guralnick, EM5:Oct 71: 1363:8414
Buckling of Simply Supported Skew Plates, Somayajulu Durvasula, EM3:June 71:967:8218
Buckling of Slanted Columns, Chin-Hao Chang, EM4:Aug 74:737:10738
Buckling of Soil-Surrounded Tubes, James A. Cheney, EM4:Aug 71:1121:8297
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72: 2507:9348
Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682
Buckling of Trapezoidal Frames Permitted to Sway, Adel Helmy Salem, ST12:Dec 69:2621:6940
Buckling of Uniformly Compressed Circular Arches, Cenap Oran and Ronald S. Reagan, EM4:Aug 69: 879:6732
Buckling of Wide Flange Columns About Minor Axis, Subhash C. Anand, Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513
Buckling Strength of Columns Based on Random Parameters, Bertrand T. Chung and George C. Lee, ST7:July 71:1927:8259
Buckling Stress States of Cylindrical Shells, Ihsan Mungan, ST11:Nov 74:2289:10965
Buckling Under Compressive and Tensile Load, Aron Zaslavsky, TN: ST10:Oct 70:2257:7572
Column Instability Under Weight and Follower Loads, David J. McGill, EM3:June 71:629:8196
Columns Design in Buildings, State-of-Art Report 1, J. Brozzetti and J. Fourcriat, TB:73:II-16-415
Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238
Complementary Energy Method for Buckling of Plates, Cenap Oran, EM2:Apr 68:621:5911
Complementary Energy Method for Buckling of Arches, Cenap Oran, EM2:Apr 68:639:5912
Complex Variable Theory and Elastic Stability Problems, Patricio A. Laura and Paul Shahady, EM1:Feb 69:59:6386
Computer Analysis of Buckling of Imperfect Shells, Robert E. Ball and Bruce A. Ryan, ST10:Oct 73: 2097:10072
Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774
Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3: June 72:595:8968
Critical Shear Loading of Curved Panels of Corrugated Sheets, George Abdel-Sayed, EM6:Dec 70:895:7725
Current Application of Limit State Philosophy -- State-of-Art Report No. 1, Andre Paduart, TB:73: III-26-859
Design Criteria for H-Columns under Biaxial Loading, Negussie Tebedge and Wai F. Chen, ST3: Mar 74:579:10400
Design of FRP Fluid Storage Vessels, Frank J. Heger, ST11:Nov 70:2465:7698
Design of Hybrid Steel Beams, Report of Subcommittee 1 on Hybrid Beams and Girders, Joint ASCE-AAHSO Committee on Flexural Members, Charles G. Schilling, ST6:June 68:1397: 5995
Design of Laterally Unsupported Timber Beams, David W. Fowler, ST3:Mar 71:881:7995
Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
Dynamic Buckling of Shallow Arches, Robert E. Fulton and Furman W. Ba[illegible], EM3:June 71:865: 8214
Effective Width of Thin Plates in Compression, George Abdel-Sayed, ST10:Oct 69:2183:6837
Effect of Curvature on Nonlinear Frame Analyses, Mike E. James, Jr., Thomas J. Kozik and Jose E. Martinez, ST7:July 74:1451:10681
Effect of Major Axis Curvature on I-Beam Stability, Nicholas S. Trahair and Scott T. Woolcock, EM1: Feb 73:85:9548
Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782
Elastic Buckling of Beam Flange Plates, Kuang-Han Chu and Albert J. Gouwens, TN: EM4:Aug 71: 1329:8273
Elastic Buckling of Stiffened Plates, Charles G. Culver and Clive L. Dym, TN: ST11:Nov 72:2641: 9374
Elastic Buckling of Two Component Columns, Yu-wen Hsu, EM3:June 69:611:6612
Elastic Lateral Buckling of Steel Beam, Graham H. Powell and Richard Klingner, ST9:Sept 70:1919: 7555
Elastic Lateral Buckling of Stepped I-Beams, Nicholas S. Trahair and Sritawat Kitipornchai, ST10:Oct 71:2535:8445
Elastic Stability of Cylindrical Shells Under External Pressure, Cary K.K. Mak, Luis E. Amaya and Harry C. Saxe, CEO-II:70:535
Elastic Stability of Tapered I-Beams, Sritawat Kitipornchai and Nicholas S. Trahair, ST3:Mar 72: 713:8775
Experimental Study of Lateral Buckling of Arches, Frank J. Tokarz, ST2:Feb 71:545:7893
Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739: 9409
Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12: Dec 72:2647:9407
Flexural Wrinkling in Foam-Filled Sandwich Panels, Ken P. Chong and John A. Hartsock, EM1:Feb 74: 95:10370

Hollow Tubular Beam-Columns in Biaxial Bending, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1399:8094

Inelastic Behavior of H-Columns Under Biaxial Bending, Gunnar A. Harstead, Charles Birnstiel and Keh-Chum Leu, ST10:Oct 68:2371:6173

Inelastic Buckling of Axisymmetric Shells, James C. Hayes and Lawrence H.N. Lee, EM6:Dec 70:1107:7765

Inelastic Buckling of Monosymmetric I-Beams, David A. Nethercot, TN: ST7:July 73:1696:9828

Inelastic Buckling of Rings with Residual Stresses, Subhash C. Anand and Alvin R. Griffith, EM5:Oct 73:927:10063

Inelastic Buckling of Shallow Spherical Shells, Lawrence H.N. Lee, Teoman Ariman and Roger E. Hoffman, CEO-II:70:579

Inelastic Buckling of Spherical Shells, Leo J. Galletta and Nicholas F. Morris, EM4:Aug 74:795:10761

Inelastic Flange Buckling of Curved Plate Girders, Charles G. Culver and Ghulam A. Nasir, ST4:Apr 71:1239:8072

Inelastic Flexural-Torsional Buckling, Alois J. Hartmann, EM4:Aug 71:1103:8294

Inelastic Lateral Buckling of Restrained Beams, Hiroshi Yoshida and Yoshihiro Imoto, EM2:Apr 73:343:9666

Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062

Initial Buckling of Channels in Compression, William H. Wittrick and Frederic W. Williams, EM3:June 71:711:8177

In-Plane Bending and Buckling of Arches, Walter J. Austin, ST5:May 71:1575:8130

Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, Ben Kato and Le-Wu Lu, TB:73:II-16-463

Intersecting Titanium Spheres for Deep Submersibles, George F. Leon, EM3:June 71:981:8219

Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455

Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247

Lateral Buckling of Braced Multistory Frames, John E. Goldberg, ST12:Dec 68:2963:6307

Lateral Buckling of Constrained Beams, Thomas G. Morrison, ST3:Mar 72:741:8793

Lateral Buckling of Parabolic Arches with Tilting Loads, Shyam N. Shulka and Morris Ojalvo, ST6: June 71:1763:8209

Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599:8786

Lateral-Torsional Buckling of Bulit-Up Beam-Columns, Hiroshi Yoshida and Susumu Nishida, TN: ST7:July 73:1713:9828

Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72:1161:8922

Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439:10232

Local and Overall Buckling of Cold-Formed Members, John T. DeWolf, Teoman B. Pekoz and George Winter, ST10:Oct 74:2017;10875

Local Failure of Plastic-Foam Core Sandwich Panels, Billy J. Harris and Gene M. Nordby, ST4:Apr 69:585:6494

Local Instability of Horizontally Curved Members, Charles G. Culver and Ralph E. Frampton, ST2:Feb 70:245:7079

Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301

Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011:10064

Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954

Multistory Prefabricated Columns, German R. Gurfinkel, CO2:Oct 70:137:7587

Nonlinear Buckling Analysis of Sandwich Arches, Parviz Sharifi and Egor P. Popov, EM5:Oct 71:1397:8417

Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263

Numerical Method for Elastic Stability Problems, Chiyyarath V. Girijavallabhan, ST11:Nov 71:2691:8530

Optimal Design for Prescribed Buckling Loads, Kalayya Narayana Murthy and Paul P. Christiano, ST11:Nov 74:2175:10912

Optimum Design of Trusses for Ultimate Loads, William S. LaPay and George G. Goble, ST1:Jan 71:157:7838

Optimum Design of Truss Structures For Ultimate Loads, William S. LaPay and George G. Goble, EC5:70:223

Optimum Prestressed Tubular Columns, Ralph L. Barnett, ST2:Feb 70:291:7083

Out-of-Plane Buckling of Crane Booms, A. J. Kaninowski and Anatole Longinow, TN: ST10:Oct 70:2261:7572

Out-Of-plane Buckling of Curved Members, Morris Ojalvo, Edvins Demuts and Frank J. Tokarz, ST10: Oct 69:2305:6865

Over-All and Local Buckling of Channel Columns, Ahmed A. Ghobarah and Wai K. Tso, EM2:Apr 69:447:6513

Plastic Buckling Of Point-Loaded Spherical Shells, Stephan S-K Wang and Sanford B. Roberts, EM1: Feb 71:77:7930

Plastic Buckling of Shells Under Cyclic Loading, Kenneth W. Neale and John Schroeder, EM1:Feb 74:63:10345

Poor Structural Design Brings West Gate Bridge Failure, John J. Kozak and Charles Seim, CE:June 72:47

Post-Buckling Behavior of Determinate Beams, Scott T. Woolcock and Nicholas S. Trahair, EM2:Apr 74:151:10471

Post-Buckling of Axially Compressed Plates, Archibald N. Sherbourne and Robert M. Korol, ST10:Oct 72:2223:9239

Postbuckling of Column under Distributed Axial Load, Tung-Ming Wang, TN: EM4:Aug 71:1323:8273

Post-Buckling of Geometrically Imperfect Plates, Ralph G. Dawson and Alastair C. Walker, ST1:Jan 72:75:8630

Post Lateral Buckling Behavior of Beams, Gerald Zamost and E. Russell Johnston, Jr., EM4:Aug 71:1133:8313

Post-Local-Buckling Behavior of Continuous Beams, Shien T. Wang and Sheng S. Yeh, ST6:June 74:1169:10595

Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, TE3:Aug 74:733:10756

Reticulated Space Structures, James O. Crooker and Kenneth P. Buchert, ST3:Mar 70:687:7180

Review of Column Behavior Under Biaxial Loading, Wai F. Chen and Sakda Santathadaporn, ST12:Dec 68:2999:6316

Rotation Capacity of Beams Under Moment Gradient, A. F. Lukey and Peter F. Adams, ST6: June 69:1173:6599

Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695

Shear-Flexible Orthotropic Plates Loaded in Plane, Charles W. Bert and Shyming Chang, EM6:Dec 72:1499:9450

Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096

Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106

Slender Prestressed Concrete Columns, Samuel Aroni, ST4:Apr 68:875:5886

Snap-Buckling of Shallow Prestressed Arches, Rodney J. Clifton, EM6:Dec 70:1157:7749

Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193

Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644

Southwell Plot for Beam-Columns, Robert H. Leicester, EM6:Dec 70:945:7750

Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141

Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913:8253

Stability Behavior Illustrated by Simple Models, Alexander Chajes, ST6:June 69:1153:6598

Stability Criteria for Shallow Arches, James F. Dickie and Peter Broughton, EM3:June 71:951:8217

Stability of a Heated Plastic Column, Li-Chung Tao and Atle Gjelsvik, EM5:Oct 69:1169:6849

Stability of a Submerged Stiffened Cylinder, Paul R. Paslay, EM6:Dec 67:179:5690

Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683

Stability of Monosymmetric Beams and Cantilevers, John M. Anderson and Nicholas S. Trahair, ST1: Jan 72:269:8646

Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266

Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, James G. Mac Gregor, TB: 73:III-23-517

Stability of Shells by Parametric Differentiation, S. K. Radhamohan, Achyut V. Setlur and John E. Goldberg, ST6:June 71:1775:8216

Stability of Spaceframes, Mehdi S. Zarghamee and Jayant M. Shah, EM2:Apr 68:371:5878

Stability of Three Dimensional Building Frames, State-of-Art Report 4, Peter F. Adams, TB:73:II-16-483

Stability of Unbraced Single-Bay Multistory Frames, Adel Helmy Salem, ST2:Feb 73:223:9552

Stability, Theme Report, George Winter, TB:73:II-16-409

Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499

Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295:9545

Stiffness Requirements for Lateral Bracing, Bruce R. Mutton and Nicholas S. Trahair, ST10:Oct 73:2167:10086

Strength of Beams or Columns with Buckled Elements, Maurice L. Sharp, TN: ST5:May 70:1011:7254

Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194

Structural Analysis of Circular Curved Beamn, Samuel Engel, ST1:Mar 67:221:5099

Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6: Dec 72:1417:9446

Thermal Buckling of a Bimetallic Beam, David Burgreen and Phillip J. Manitt, EM2:Apr 69:421:6509

Thermal Buckling of Restrained Skew Plates, Mudlapur S. Suryanarayana Prabhu and Somayajulu Durvasula, TN: EM6:Dec 74:1292:10979

Torsional-Flexural Buckling Effects in Portal Frames, David A. Nethercot, TN: ST9:Sept 74:1985:10775

Torsional-Flexural Buckling of Thin-Walled Sections Under Eccentric Load, Teoman B. Pekoz and George Winter, ST5:May 69:941:6571

Transverse Elastic Buckling of Plane Pipe Gridworks, Alan I. Soler and Hooshang Afshari, TN: ST4:Apr 74:837:10456

Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021

Ultimate Load Tests on Braced Multistory Frames, Joseph A. Yura and Le-Wu Lu, ST10:Oct 69:2243:6840

Unbraced Multistory Steel Frames with Wind Load, E. Whitman Wright, ST1:Jan 72:185:8633

Upper Bounds in Complementary Energy Method, Cenap Oran, EM4:Aug 71:1093:8289

Web Buckling Strength of Beam-to-Column Connections, Wai F. Chen and Irving J. Oppenheim, TN: ST1:Jan 74:279:10264

Budget Estimates

Budget Constraints and Multiobjective Planning, Arthur Maass and David C. Major, PP3:July 72:359:9064

Budgeting

Financial Tools for a Consulting Firm, Roy T. Sheehey, CE:Jan 72:66

PPB System Implications on Future Highway Program, Roy E. Jorgensen, TE2:May 69:373:6566

Buffers

Containership Finger Pier has Unique Fender System, Warren M. Buser, CE:Apr 71:58

Build

BUILD-An Integrated System for Building Design, Lavette C. Teague, Jr. and Alan M. Hershdorfer, ST4:Apr 68:983:5901

Building Codes

The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE: Aug 72:55

British Column Design, Allan R. Gent, TB:73:II-16-545

Commentary on Structural Standards, Summary Report, Ira Hooper, TB:73:II-13-147

Commentary on Structural Standards, Summary Report, Emory L. Kemp, TB:73:III-20-139

Hurricane Exposes Structural Flaws, Herbert S. Saffir, CE:Feb 71:54

Implications of the New ACI Building Code, Edward Cohen, CE:Aug 72:47

Influence of Soil Conditions on Building Damage Potential During Earthquakes, H. Bolton Seed and Izzat M. Idriss, ST2:Feb 71:639:7909

Non-Linear Analysis and Limit Design, Summary Report, Herbert A. Sawyer, TB:73:III-22-483

Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42

Recent Developments in Plastic Design Practice, Lynn S. Beedle, Le-Wu Lu and Lee C. Lim, ST9: Sept 69:1911:6781

Structural Safety and Probabilistic Methods, Summary Report, Luis Esteva, TB:73:Ib-10-1043

Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87

Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229

Urban Housing: Kaiser Committee reports, CE:Apr 69:70

Building Materials

Construction in South America, State-of-Art Report 5, Sergio E. Pellegrini, TB:73:Ia-12-1135

The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72, 171pp.

Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73: III-27-981

Quality Control Criteria, Summary Report, E. James White, Robert L'Hermite and I. Gramolin, TB:73: Ib-9-901

Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749

Recycling Wastes for Structural Application, Seymour A. Bortz and Murray A. Schwartz, EM2: Apr 73:249:9648

Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001

Structural Systems of Tall Buildings with Core Structures, State-of-Art Report 8, Jiri Kozak, TB: 73:Ia-3-537

Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647

Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603

Buildings

The Allowable Settlement of Structures, Hugh Q. Golder, 4PCSM:71:I171

Along-Wind Response of Large Bluff Buildings, Julius Solnes and Ragnar Sigbjornsson, ST3:Mar 73:381:9585

Analysis of Asymmetrical Coupled Shear Walls, Arthur C. Heidebrecht and R. David Swift, ST5:May 71:1407:8100

Analysis of Curved Folded Plate Structures, Christian Meyer and Alexander C. Scordelis, ST10:Oct 71:2459:8434

Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233:8643

Analytical Model for Lateral Load Effect on Buildings, Bernardo J. Deschapelles, ST6:June 70:1025:7328

Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550

Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, Fritz Rafeiner, TB:73:Ia-12-1095

Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057

Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43

Artic Research Laboratory, William H.G. Van Ness, CE:May 71:69

ASCE Seeks Bigger Role in Building Codes, CE:Dec 73:36

Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72:1069:8911

The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE:Aug 72:55

Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800

Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7:July 72:1361:9010

Bending Strength of Aluminum Formed Sheet Members, J. R. Jombock and John W. Clark, ST2:Feb 68:511:5816

Big Steel-Truss Roof Welded on Ground, Lifted into Position, Gene W. Jones, CE:Oct 69:42

BUILD-An Integrated System for Building Design, Lavette C. Teague, Jr. and Alan M. Hershdorfer, ST4:Apr 68:983:5901

Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398

Building Dynamics Due to Stochastic Wind Forces, Gary C. Hart, ST3:Mar 70:535:7154

Building Practices for Disaster Mitigation: Book Review, Glen V. Berg, CE:Jan 74:30

Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515

Code Specification of Safety and Serviceability, State-of-Art Report 2, Emilio Rosenblueth, TB:73:Ib-10-931

Commentary, Irving Scheinbart, CEWAU:74:221

Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4:Apr 73:621:9643

Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5:May 72:1119:8916

Conservation of Energy in Buildings, Vance L. Sailor, CO3:Sept 74:295:10795

Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, Mogens Lorentsen, TB:73:III-23-585

Construction Contracting Systems, by William J. Gregg, Philip G. Read, and Ralph C.nash, Jr. (Book Reviewe, Donald A. Patrick, CE:Feb 71:14

Construction Self-Weight Stresses of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, ST1:Jan 71:393:7840

Costs of Lightweight Concrete and Other Materials in Various Building Types, E. Vernon Konkel, CE:Apr 69:65

Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423

Design for Prevention of Progressive Collapse, Ramzi H. Ferahian, CE:Feb 72:66

Design of a Two-Way Post-Tensioned Waffle Slab, Jerry L. McDonald, CE:May 73:64

Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310

Differential Settlement of Buildings, Rebecca Grant, John T. Christian and Erik H. Vanmarcke, GT9:Sept 74:973:10802

Dynamic Properties of Tall Shear-Wall Buildings, George T. Taoka, Augustine S. Furumoto and Arthur N.L. Chiu, ST2:Feb 74:305:10336

Dynamic Response of Frames with Nonrigid Connections, Steve R. Lionberger and William Weaver, Jr., EM1:Feb 69:95:6393

Dynamics of Tier Buildings, William Weaver, Jr., Mark F. Nelson and Thomas A. Manning, EM6:Dec 68:1455:6293

Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383:8399

Earthquake Interaction by Fast Fourier Transform, Shih-Chi Liu and Lawrence W. Fagel, EM4:Aug 71:1223:8324

Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149

Earthquake-Resistant Reinforced-Concrete Buildings, Paul Rogers, CE:Aug 71:32

Elastic Analysis-Strength of Members and Connections, Theme Report, Russell S. Fling, TB:73:III-21-149

Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64

Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79

Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7

Esthetics in Structural Design, David P. Billington, CE:Oct 73:36

Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229

Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324

Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, STF:73:49

Federal Breakthrough Program Spurs Innovation in U.S. Housing Technology, Kneeland A. Godfrey, Jr., CE:Sept 70:73

Foundation Design for Buildings on Soft Clay in Earthquake Zone, James E. Roberts and Edward Margason, CE:Feb 74:56

Framed Tube Structures for High-Rise Buildings, Alexander Coull and Nutan Kumar Subedi, ST8:Aug 71:2097:8301

Free Vibration of Two-Dimensional Frameworks, Karl-Robert Leimbach and Donald McDonald, ST2:Feb 70:267:7082

Fundamental Frequency of Shear Flexible Buildings, Michael J. O'Rourke, TN: EM5:Oct 74:1080:10856

Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231

Gust Factors and Alongwind Pressure Correlations, Emil Simiu, ST4:Apr 73:773:9686

Gust Response Factors, Joseph Vellozzi and Edward Cohen, ST6:June 68:1295:5980

Handsome Civil Engineering Structures, CE:May 70:56

Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868

Inelastic Earthquake Response of Tall Steel Frames, Subhash C. Goel and Glen V. Berg, ST8:Aug 68:1907:6061

Influence of Joints in Panelized Structural Systems, Eric F.P. Burnett and R. Clement S. Rajendra, ST9:Sept 72:1943:9207

Influence of Soil Conditions on Building Damage Potential During Earthquakes, H. Bolton Seed and Izzat M. Idriss, ST2:Feb 71:639:7909

In-Home Shelters from Extreme Winds, Ernst W. Kiesling and David E. Goolsby, CE:Sept 74:105

An Integrated System For RC Building Design, John M. Biggs, Peter J. Pahl and Harry N. Wenke, EC5:70:1

Integrated System For RC Building Design, John M. Biggs, Peter J. Pahl and Harry N. Wenke, ST1:Jan 71:13:7816

Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672

Lateral Buckling of Braced Multistory Frames, John E. Goldberg, ST12:Dec 68:2963:6307

Live Load Effects in Office Buildings, Robin K. McGuire and C. Allin Cornell, ST7:July 74:1351:10660

Load Fluctuations in Turbulent Flow, Barry J Vickery, EM1:Feb 68:31:5782

Masonry Structures, Theme Report, Arnold W. Hendry, TB:73:III-27-957

Mat Foundation Spans Rubble Channels, L. Radley Squier, CE:Aug 70:61

Measuring Building Movement by Precise Survey, J. David Reynolds and John A. Dearinger, SU1:Apr 70:87:7228

Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71:2837:8604

Moment Redistribution in Precast Concrete Frame, Harold W. Conner, Paul H. Kaar and W. Gene Corley, ST3:Mar 70:637:7168

Movable Roof for Municipal Pool, Stewart C. Barnett, CE:Jan 70:61

Multi-level Parking Structure, Elwin M. Pell, CE:Feb 69:49

New Mortars, Prefab Walls Transform Concrete Masonry, Henry T. Toennies, CE:July 73:46

New York City Convention and Exhibition Center, Thomas F. Galvin, CEWAU:74:211

Nonlinear Dynamic Analysis of Frames with Filler Panels, Garrison Kost, William Weaver, Jr. and Russell B. Barber, ST4:Apr 74:743:10481

Nonlinear Earthquake Behavior of Tall Buildings, Ray W. Clough and Kalmar L. Benuska, EM3:June 67:129:5292

Nonlinear Seismic Response Evaluation - Charaima Building, Stephen A. Mahin and Vitelmo V. Bertero, ST6:June 74:1225:10614

Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638

Optimum Housing Allocation Model for Urban Areas, R. S. Atkins and Edward M. Krokosky, UP1:Apr 71:41:8022

Package Buildings in Steel, Concrete, CE:Aug 74:76

Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728

P-delta and Axial Column Deformation in Aseismic Frames, Subhash C. Goel, ST8:Aug 69:1693:6738

Pedestrian System Planning for High Rise Buildings, John J. Fruin, TE3:Aug 74:675:10741

Performance Requirements for Fireproofing Materials, Lawrence G. Seigel, EM3:June 74:489:10598

Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183

Plastic Design: A Case History, Horatio Allison, CE:Apr 69:61

Plastic Design for Buildings, George C. Driscoll, Jr., CE:Apr 69:56

Plastic Design of Multistory Frames by Computer, George C. Driscoll, Jr., James O. Armacost, III and William C. Hansell, ST1:Jan 70:17:6995

Plastic Design of Multistory Steel Frames by Computer, Leroy Z. Emkin and William A. Litle, ST1:Nov 70:2373:7689

Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72:1769:9148

Preloading for Heavy Industrial Installations, Panaghiotis C. Kotzias and Aris C. Stamatopoulos, SM6:Nov 69:1335:6902

Preloading for Heavy Industrial Installations, Panaghiotis C. Kotzias and Aris C. Stamatopoulos, PISST:71:321

Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363:9328

Radar Building Can Withstand Nuclear Attack, Edward Cohen and Edward B. Laing, CE:Oct 73:46

Reinforced Concrete Beam-Column Connection, Eric F.P. Burnett and Rajendra P. Jajoo, ST9:Sept 71:2315:8395

Repairing Buildings Damaged in Earthquake, CE:Oct 73:62

Research On Steel-Concrete Composite Beams, R. Paul Johnson, ST3:Mar 70:445:7122

Response of Ground-Excited Elastoplastic Systems, Anestis S. Veletsos and William P. Vann, ST4:Apr 71:1257:8075

Roof Assembled on Ground, Hoisted into Place, Werner Blum and Philip Wesler, CE:Jan 74:44

Sample Approaches to Optimum Use of Marginal Lands, William W. Moore and Nicholas Chryssafopoulos, SM3:Mar 72:243:8789

Schools. . . With Tornado Protection (Book Review), Joseph E. Minor, CE:Sept 74:44

SCSD:Pioneer Effort in Systems Approach to Building Construction, Christopher Arnold, CE:Apr 69:41

Seismic Design of Soil-Structure Systems, Richard A. Parmelee and John H. Wronkiewicz, ST10:Oct 71:2503:8437

Seismic Response of Single-Story Interaction Systems, David S. Perelman, Richard A. Parmelee and Seng-Lip Lee, ST11:Nov 68:2597:6235

Seismic Response of Structure-Foundation Systems, Richard A. Parmelee, David S. Perelman, Seng-Lip Lee and Leon M. Keer, EM6:Dec 68:1295:6264

Settlement of Building on Pile Foundation in Sand, Robert M. Koerner and Antal Partos, GT3:Mar 74:265:10405

Settlement of Buildings Constructed in Hackensack Meadows, Herbert L. Lobdell, SM4:July 70:1235:7398

Settlement of Some Piled Foundations in Mexico, Pablo Girault, PES:72:I-1185

Shopping Centers Development Team, J. Ross McKeever, CE:Sept 69:89

Solar Heating and Cooling: Untapped Energy Put to Use, George O.G. Lof and Dan S. Ward, CE:Sept 73:88

Specifying Structural Concrete for Buildings, Sidney Freedman, CE:Nov 73:68

Stability of Novel Building Systems, State-of-Art Report 5, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-499

Staggered Truss Building System, Harold P. Bakke, Lawrence A. Kloiber and Albert C. Nuhn, CE:Nov 69:56

Statistical Analysis of Live Load in Column Design, Ross B. Corotis, ST8:Aug 72:1803:9123

Statistical Model for Live Floor Loads, Abraham M. Hasofer, ST10:Oct 68:2183:6146

Steady-State Response of Yielding Shear Structure, Wilfred D. Iwan, EM6:Dec 70:1209:7774

Stiffness Center Method, Hayrettin Kardestuncer, ST7:July 74:1421:10673

Stochastic Frame Response Using Modal Truncation, Gary C. Hart, EM5:Oct 70:565:7596

Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72:327:8675

Stress Distribution in Castellated Beams, James A. Mandel, Paul J. Brennan, Benjamin A. Wasil and Charles M. Antoni, ST7:July 71:1947:8260
Stress in Beams with Circular Eccentric Web Holes, Peter W. Chan and Richard G. Redwood, ST1:Jan 74:231:10291
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642
A Study of Damage to a Residential Structure from Blast Vibrations, John F. Wiss and Harry R. Nicholls, DRS:74, 80pp.
Subassemblage Technique for Asymmetric Structures, William R. Hibbard and Peter F. Adams, ST11:Nov 73:2259:10132
Superstructure for 1,350-ft.-High World Trade Center, Lester S. Feld, CE:June 71:66
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128
Systems Approach to Building, James R. Cagley, CE: Apr 73:59
Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147
Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
Tall Buildings in Antiquity, Douglas D. Feaver, TB: 73:Ia-1-251
Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72: 611:8791
Three-Dimensional Analysis of Shear Wall Buildings to Lateral Load, Jayanta K. Biswas and Wai K. Tso, ST5:May 74:1019:10537
Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Time-Dependent Reinforced Concrete Slab Deflections, Andrew Scanlon and David W. Murray, ST9:Sept 74:1911:10833
Torsion Analysis of Symmetric Building Structures, Alexander Coull and Bryan Stafford Smith, TN: ST1:Jan 73:229:9464
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Treatment of Peak Gusts on Cladding, W. Alan Dalgliesh, ST9:Sept 71:2173:8356
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72: 1365:9445
Urban Degradation and Building Systems, Murray A. Muspratt, UP2:Sept 73:235:10003
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
Use of Precision Gravity Survey to Determine Bedrock, John R. Sumner and John A. Burnett, GT1:Jan 74:53:10256
US Pavilion at EXPO 70 Features Air-Supported Cable Roof, David H. Geiger, CE:Mar 70:48
U.S. Steel Headquarters Building, CE:Apr 70:58
World's Top Prestressed Structures, 1970-74, CE:Aug 74:68
1969 AISC Specifications, Theodore R. Higgins, CE: Oct 69:53
The 1970's: Civil Engineering Forecast-Part I, Kneeland A. Godfrey, Jr., CE:Apr 70:68

Buildings (Apartment)

Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, ST1:Jan 74: 175:10289
Boston Collapse, William A. Litle, STF:73:99
Building Settlement on End-Bearing Driven Piles, Amos Komornik, Gdalyah Wiseman and Joseph G. Zeitlen, PES:72:I-1135
Construction Self-Weight Stresses Of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, EC5:70:645
Dynamic Soil-Structure Interaction, Robert V. Whitman, TB:73:Ib-6-310
Foundation Construction on Compacted Structural Fill in the Washington, D.C. Area, James J. Schnabel, PES:72:I-1019
Influence of Joints in Panelized Structural Systems, Eric F.P. Burnett and R. Clement S. Rajendra, ST9: Sept 72:1943:9207
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
Model Investigations of Shear Wall Structures, Alexander Coull and Andrew W. Irwin, ST6:June 72:1223:8936
Plastic Design: A Case History, Horatio Allison, CE: Apr 69:61
Precast Concrete Panels Cut Cost of Apartment Complex, Zivan Cohen, CE:May 71:48
A Program For New Towns, Ira J. Bach, UP1:Apr 71:55:8059
Settlement of Footings on a Non-Uniform Foundation, C. Robert Lennertz, PES:72:I-929
Staggered Truss Building System, Harold P. Bakke, Lawrence A. Kloiber and Albert C. Nuhn, CE:Nov 69:56
Structural Ground Concept and Wire Fabric Save Time and Money, Don Gehring, CE:Nov 71:50

Buildings (Codes)

Adaptive Control of Design Codes, Gerald Schorn and Niels C. Lind, EM1:Feb 74:1:10332
Architectural-Structural Interaction, Summary Report, Gunnar Essunger, TB:73:Ia-12-1163
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
Architecture of Tall Buildings, State-of-Art Report 8, Arthur James Mc Arthur, Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199
Are the Codes Safe for Wind Pressure?, Clayton T. Crowe, Alfredo Barriga, John A. Roberson and William V. Taylor, TN: ST8:Aug 74:1745:10723
ASCE Seeks Bigger Role in Building Codes, CE:Dec 73:36
Badly Needed: Changes in Building Codes for Houses, Melvin W. Jackson, CE:Apr 72:55
Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182
Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682
Cable-Suspended Roof Construction State-of-the-Art, Subcommittee on Cable-Suspended Roof Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, John B. Scalzi, Chmn., ST6:June 71:1715:8190
Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515
The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66
Code Acceptance of Unique Building Materials and Systems, Paul K. Heilstedt, CO4:Dec 74:553:11023
Codes and Model Testing, John Springfield, TB:73: Ib-7-431
Commentary on Structural Standards, Theme Report, P. A. Lorin, TB:73:II-13-7
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603
Concrete Design Standards in Arab Countries, State-of-Art Report 6, Jacques Nasser, TB:73:III-20-113
Concrete Design Standards in Asia, State-of-Art Report 7, Hon Kwan Cheng, TB:73:III-20-117
Consistent Partial Safety Factors, Niels C. Lind, ST6: June 71:1651:8166
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87
Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183

Design of a Two-Way Post-Tensioned Waffle Slab, Jerry L. McDonald, CE:May 73:64

Design of Reinforced Concrete Spandrel Beams, Thomas T.C. Hsu and Kenneth T. Burton, ST1:Jan 74:209:10277

Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383:8399

Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344

Environmental Systems, Summary Report, Henry J. Cowan, TB:73:Ia-1-289

Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669

Fire Resistance of Unprotected Steel Columns, W. W. Stanzak and T. T. Lie, ST5:May 73:837:9719

Fire Safety, Calvin H. Yuill, TB:73:Ib-8-677

General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959

German Code Requirements, Gert Konig, TB:73:Ib-10-1027

Goal Oriented Systems Approach to Building Fire Safety, Harold E. Nelson, TB:73:Ib-8-692

Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811

ICBO-BOCA Fire Provisions, John G. Degenkolb, TB:73:Ib-8-733

Joints, Precast Panel Buildings, State-of-Art Report 2, Bohdan Lewicki and Adrian Pauw, TB:73:III-21-171

Lateral Analysis of Plywood Diaphragms, Warren H. Bower, ST4:Apr 74:759:10494

Lateral Support of Concrete Block Walls, Harry D. Lovering, CE:May 73:74

Limit States Design, Theme Report, Franco Levi, TB:73:III-26-843

Live Load Effects in Office Buildings, Robin K. McGuire and C. Allin Cornell, ST7:July 74:1351:10660

Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73:III-27-981

Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103

Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB:73:Ib-8-523

Mobile Homes and New Communities, Herbert Behrend, UP2:Nov 74:181:10915

Optimization of Long-Span Cold-Formed Truss Purlins, Richard T. Douty and James O. Crooker, ST11:Nov 74:2275:10952

Precast Concrete in Residential Construction, Rexford L. Selbe, UP1:Mar 73:93:9596

Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941

Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131

Progressive Collapse, Abnormal Loads, and Building Codes, David E. Allen and William R. Schriever, STF:73:21

Reinforced Masonry and the Pathology of Masonry, O. Pfeffermann, TB:73:III-27-1088

Repairing Buildings Damaged in Earthquake, CE:Oct 73:62

Report Relating the Impact of Mobile Homes on Urban Plans and Housing Systems by the Task Committee on Mobile Home Parks of the Urban Planning and Development Division, Charles O. Quade, Chmn., UP1:Mar 74:7:10385

Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, Gaylord R. Claiborne and Lucien Wahl, TB:73:Ib-8-541

Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668

Response of Suspended Boilers to Earthquake Motions, James C. Anderson, Ramachandran Srinivasan and Robert J. Small, EPCE:Aug 74:363

Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45

Risk-Based Evaluation of Design Criteria, Bruce R. Ellingwood and Alfredo H.-S. Ang, ST9:Sept 74:1771:10778

Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66

Safety Practices, State-of-Art Report 3, Rex K. Rainer and Phillip F. Moon, TB:73:Ia-4-701

Seismic Design of Nonstructural Elements, Roland L. Sharpe, TB:73:Ia-12-1143

Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, Alexander Popoff, Jr., TB:73:III-23-571

Staggered Columns in Flat Plates, Maurice P. Van Buren, ST6:June 71:1791:8222

Statistical Model for Live Floor Loads, Abraham M. Hasofer, ST10:Oct 68:2183:6146

Structural Failures: Modes, Causes, Responsibilities, Neal FitzSimons, Chmn., STF:73, 111pp.

Structural Safety and Probabilistic Methods, Theme Report, C. Allin Cornell, TB:73:Ib-10-911

Suggested Steel Ductility Requirements, Asfandiar K. Dhalla and George Winter, ST2:Feb 74:445:10366

System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569

Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541:9864

U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27

Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723

Wind Spectra and Dynamic Alongwind Response, Emil Simiu, ST9:Sept 74:1897:10815

Buildings (Commercial)

Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589

Multi-level Parking Structure, Elwin M. Pell, CE:Feb 69:49

Buildings (Hospitals)

Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72:645:9282

Construction Management Works at Federal Hospital, Jerry Kosro, CE:Jan 74:40

The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292

Integration of Mechanical, Electrical, Structural and Architectural Systems in VA Hospital Facilities (Book Review), Carleton Coulter, III, CE:Nov 71:8

Mat Foundation and Preload Fill, VA Hospital Tampa, L. David Wheeless and George F. Sowers, PES:72:I-939

Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299

Project Control Using CPM, James J. O'Brien, CE:Apr 74:68

A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286

Buildings (Hotels)

Controlling Fires in Tall Buildings, Robert F. Legget, CE:Nov 71:63

Hotel "Intourist" Smolenskaya Square, N. P. Melnikov, TB:73:C-P-240

Le Chateau Champlain, T. A. Monti, TB:73:C-P-278

Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Buildings (Industrial)

Laminated Timber Used in High-Rise Mill Building, L. Elvin Gower, CE:Dec 71:40

Preloading for Heavy Industrial Installations, Panaghiotis C. Kotzias and Aris C. Stamatopoulos, SM6:Nov 69:1335:6902

Preloading for Heavy Industrial Installations, Panaghiotis C. Kotzias and Aris C. Stamatopoulos, PISST:71:321

Buildings (Office)

AMP Centre, Peddle, Thorp and Walker, TB:73:C-P-402
Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169
Athens Tower, A. Albertis-TH. Dimopoulos S.A., TB:73:C-P-502
Australia Square, Seidler & Associates, TB:73:C-P-418
Bank of New South Wales, Peddle, Thorp and Walker, TB:73:C-P-408
Brandywine Building, Vincent G. Kling and Partners, TB:73:C-P-386
Building B -- Santiago Central Development Program, J. Aguirre, C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
Cables Support Office Building, Bogue B. Babicki, CE:Oct 71:64
A Case Study of a Soil Anchor Tie-Back System, Michael L. Larson, Willard R. Willette, Harold C. Hall and John P. Gnaedinger, PES:72:I-1341
Central Penn National Bank, Vincent G. Kling and Partners, TB:73:C-P-362
Central Square, Fox & Associates, TB:73:C-P-424
Centre Square, Vincent G. Kling and Partners, TB:73:C-P-390
Century Park Plaza, Welton Becket and Associates, TB:73:C-P-334
The Chicago Civic Center, Skidmore, Owings & Merrill, TB:73:C-P-492
Citizens Fidelity Bank, Welton Becket and Associates, TB:73:C-P-330
Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363
Clinton Square, Welton Becket and Associates, TB:73:C-P-338
Commerce Court, M. I. Gilmore, TB:73:C-P-294
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4:Apr 73:621:9643
Construction Self-Weight Stresses Of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, EC5:70:645
Controlling Fires in Tall Buildings, Robert F. Legget, CE:Nov 71:63
Design and Observation of a Tied-Back Wall, Gerald W. Clough, Paul R. Weber and Joseph Lamont, Jr., PES:72:I-1367
Ductile-Frame Tie Bars, John T. Merrifield and Albert P. Jensen, CE:Nov 71:52
Exchange Centre, Peddle, Thorp and Walker, TB:73:C-P-406
Fidelity Mutual Life, Vincent G. Kling and Partners, TB:73:C-P-368
Finland House, Kahn & Jacobs, TB:73:C-P-350
First & Merchants National Bank, Welton Becket and Associates, TB:73:C-P-322
First Wisconsin Center, Skidmore, Owings & Merrill, TB:73:C-P-494
Government Offices and Conference Center (Nairobi), Gordon Melvin & Partners, TB:73:C-P-436
Hampshire Plaza, Welton Becket and Associates, TB:73:C-P-342
Human Perception Thresholds of Horizontal Motion, Peter W. Chen and Leslie E. Robertson, ST8:Aug 72:1681:9142
An Instrumented Tied-Back Deep Excavation, Thomas K. Liu and John P. Dugan, Jr., PES:72:I-1323
John Hancock Center, Skidmore, Owings & Merrill, TB:73:C-P-498
Live Load Effects in Office Buildings, Robin K. McGuire and C. Allin Cornell, ST7:July 74:1351:10660
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
McGraw-Hill, Harrison & Abramovitz, TB:73:C-P-430
M.L.C. Centre, Seidler & Associates, TB:73:C-P-426
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456
Nauru House, Perrott, Lyon, Timlock & Kesa, TB:73:C-P-428
Old Hall Street Development -- Liverpool, Alastair J.M. Soane, TB:73:C-P-231
One Astor Plaza, Kahn & Jacobs, TB:73:C-P-348
One Hundred Summer Street, Welton Becket and Associates, TB:73:C-P-314
One Shell Square, Skidmore, Owings & Merrill, TB:73:C-P-490
Pedestrian System Planning for High Rise Buildings, John J. Fruin, TE3:Aug 74:675:10741
Penn Center, Vincent G. Kling and Partners, TB:73:C-P-380
Pittsburgh National Building, Welton Becket and Associates, TB:73:C-P-310
Prudential Insurance Tower, Charles Luckman Associates, TB:73:C-P-358
The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711
Royal Exchange Building, Peddle, Thorp and Walker, TB:73:C-P-414
Sears Tower, Skidmore, Owings & Merrill, TB:73:C-P-500
Some Aspects of Office Design Live Loads, Wilfred W.C. Siu and Niels C. Lind, ST11:Nov 73:2245:10159
Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
Standard Bank Centre (Johannesburg S.A.), Hentrich - Petschnigg & Partner, TB:73:C-P-446
Standard Oil of Indiana Building in Chicago, E. Alfred Picardi, TB:73:C-P-244
Standard Oil of N.J., Harrison & Abramovitz, TB:73:C-P-431
State Office Building, Dalton, Dalton, Little & Newport, TB:73:C-P-434
Stock Exchange Building, Vincent G. Kling and Partners, TB:73:C-P-372
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642
Superstructure for 1,350-ft.-High World Trade Center, Lester S. Feld, CE:June 71:66
Thyssenhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-448
Tour Apogee, Skidmore, Owings & Merrill, TB:73:C-P-486
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
Unileverhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-450
Union Bank, Welton Becket and Associates, TB:73:C-P-326
United States Steel Corporation Building, Harrison & Abramovitz, TB:73:C-P-432
Valley Center, Welton Becket and Associates, TB:73:C-P-318
The Wainwright Building, John D. Randall, TB:73:C-P-352
Westchester County Courthouse, Welton Becket and Associates, TB:73:C-P-302
Dsc, World Trade Center, John O. Bickel, CE:Oct 71:90
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394
200 West Monroe Building, Welton Becket and Associates, TB:73:C-P-306

Buildings (Recreational)

Amphitheater Roof Features Steel Box Sections, Walter P. Moore, Jr., CE:Nov 69:70
Sydney Opera House, O. N. Arup and Gerd J. Zunz, CE:Dec 71:50

Buildings (Residential)

Advance in Refuse Management, Eugene E. Dallaire, CE:Aug 74:82

Chestnut-DeWitt Apartments, Skidmore, Owings & Merrill, TB:73:C-P-496
Choice-HUD's Blueprint for a Better Tomorrow, Byron R. Hanke, CE:Sept 69:49
Crestline Apartments, Grigalis & Associates, TB:73:C-P-458
Design for Prevention of Progressive Collapse, Ramzi H. Ferahian, CE:Feb 72:66
Empresa Nacional de Electricidad S. A. - Endesa's Building, Luis Larraguibel, TB:73:C-P-478
Federal Breakthrough Program Spurs Innovation in U.S. Housing Technology, Kneeland A. Godfrey, Jr., CE:Sept 70:73
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Rotonda Vitacura Building, J. Aguirre and A. Aguirre, TB:73:C-P-482
A Study of Damage to a Residential Structure from Blast Vibrations, John F. Wiss and Harry R. Nicholls, DRS:74, 80pp.
Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
Trends in Residential Development, George C. Bestor, CE:Sept 69:83
University of Delaware Dormitories, Charles Luckman Associates, TB:73:C-P-360

Bulb Turbines
Rock Island to Use Bulb Turbines—A First in U.S., Wayne A. Stewart and Warner W. Wayne, Jr., PO2:Dec 74:175:11005

Bulkheads
Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40
Numerical Analysis of Flexible Retaining Structures, T. Allan Haliburton, SM6:Nov 68:1233:6221
Performance of Tied-Back Walls in Clay, Gerald W. Clough and Yuet Tsui, GT12:Dec 74:1259:11028
Port Construction At Burns Waterway Harbor, John H. McGavock, Norman R. Loesing and Elvis R. Dye, CO1:Mar 71:17:7990
Stability of Cellular Cofferdams Against Vertical Shear, Melvin I. Esrig, SM6:Nov 70:1853:7654

Bulking
Effects of Iron on Activated Sludge Treatment, John L. Carter and Ross E. McKinney, EE2:Apr 73:135:9679

Buoyancy
Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378
Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72:161
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193
Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992

Buoys
Buoy for Recording Ocean Wave Height and Period, P. M. Blair, WAVES:Sept 74:254
A Description of Three Wave Measuring Instruments, E. H. Bowler, WAVES:Sept 74:562
Dynamics Of A Single Point Mooring In Deep Water, John H. Nath and Michael P. Felix, CE0-II:70:45
Dynamics of Single Point Mooring in Deep Water, John H. Nath and Michael P. Felix, WW4:Nov 70:815:7700
Engineering Aspects Of A Movable Surveillance System, Richard C. Swenson, CEO-II:70:385
Instrument Support Structure, Mervin D. Palmer, CEO-II:70:401
Least Cost Gauge Buoy for Measurement and Analysis of Ocean Waves, Joseph R. Reynolds, Jr. and John F. Hoffman, WAVES:Sept 74:639
Longitudinal Motions of Taut Moorings, Tokuo Yamamoto, John H. Nath and Charles E. Smith, WW1:Feb 74:35:10321
NDBO Wave Data - Current and Planned, Kenneth Edward Steele, Eduardo David Michelena and James Michael Hall, WAVES:Sept 74:417
New Equipment for Field Measurement of Water Surface Waves, Ake Sandstrom, WAVES:Sept 74:272
Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73:485:10179
Studies on the Navigation Buoy for Strong Tidal Currents and Large Waves, Shoshichiro Nagai, Kazuki Oda and Katsuhiko Kurata, CE13:72:III-1743
Two-Point Mooring System for Spar Buoy, John H. Nath and Steve Neshyba, WW2:May 71:295:8115

Bureau of Reclamation
Bureau of Reclamation Examination Program, Paul K. Bock, IMROD:Sept 73:50
Bureau of Reclamation Shotcrete Design Practices, John W. Morris, SUSS:July 73:153
Civil Engineering Education and the Bureau of Reclamation, Gilbert G. Stamm, CEE:Feb 74:1-347
Conversion of Maximum Rainfalls to Floods (Bureau of Reclamation Techniques), Frederick A. Bertle, IMROD:Sept 73:302
Current Programs for Seismic Safety -- Bureau of Reclamation, Richard W. Kramer, IMROD:Sept 73:795
Current Water Systems Automation Research and Development in the Bureau of Reclamation, Charles A. Calhoun, IR73:Aug 73:353
Hydraulic Elements for USBR Standard Horseshoe Tunnel, Walter W. Hu, TN: TE4:Nov 73:973:10117
Methods of Performing and Interpreting In Situ Shear Tests, Michael L. Haverland and Edward J. Slebir, RM13:72:107
New Developments in In-Place Testing of Shotcrete, Todd E. Rutenbeck, SUSS:July 73:246
Review of Spillway Adequacy at Existing Bureau of Reclamation Dams, Garry H. Austin, IMROD:Sept 73:382
Selecting Spillway Floods for Existing Structures (Bureau of Reclamation Application), Frederick A. Bertle, IMROD:Sept 73:328
Status of Bureau of Reclamation Efforts in Weather Modification, Evaporation Suppression, and Water Salvage, Patrick A. Hurley, IAWM:72:43

Buried Pipes
Analysis of Longitudinal Behavior of Buried Pipes, Harry G. Poulos, GT74:June 74:199
Finite Element Permafrost Thaw Settlement Model, Jon F. Sykes, William C. Lennox and Robin G. Charlwood, GT11:Nov 74:1185:10957
Offshore Pipeline Burial, Sjoerd C. Haagsma, TN: TE4:Nov 73:980:10117
Stress Distribution Around Shallow Buried Rigid Pipes, Subhash C. Anand, ST1:Jan 74:161:10258
Two-Dimensional Heated Pipeline in Permafrost, Jon F. Sykes, William C. Lennox and Tharakkal E. Unny, GT11:Nov 74:1203:10956

Buried Structures
Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72:2329:9325

Buses (Vehicles)
Airport Access Cost-Effectiveness Analysis, Richard de Neufville and Edward Mierzejewski, TE3:Aug 72:663:9141
Balanced Highway-Airport Design, Henry K. Evans, TE1:Feb 69:213:6420

The Basic Inadequacy of Conventional Urban Transportation Modes, Ben Alexander, UTI:71:59
Buses Get Exclusive Use of Freeway Median, Marvin C. Gersten and Jeanine M. Kahan, CE:July 70:68
Bus Transit, Lester A. Hoel, CE:Mar 73:79
Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4: Nov 72:807:9320
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Express Bus Mass Transit, Joseph Barnett, TE2:May 70:133:7256
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
Freeway Planning: Advance Acquisition of Rights-Of-Way, CE:Nov 70:62
Highway and Modal Choice Decisions, Donald A. Morin, TE1:Feb 73:145:9569
Implementing an Exclusive Bus Lane on the New Jersey Approaches to the Lincoln Tunnel, Leon Goodman, NA:Mar 71:149
Improving Urban Bus Operations, Michael G. Ferreri, TE3:Aug 70:319:7465
Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953
Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
New Concepts in Rail-Bus Interchange, Joel P. Leisch, TE1:Feb 74:103:10328
Optimizing Bus Use of Urban Highways, Herbert S. Levinson and William F. Hoey, TE2:May 74:443: 10558
Optimizing Traffic Flow on Existing Street Networks, Wesley La Baugh, TE2:May 71:353:8135
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73: 725:10126
Patterns of Mobility of Working Poor, Arthur Saltzman and Alice E. Kidder, TE3:Aug 74:769: 10760
Plan for Financing Urban Mass Transit Systems, Robert T. Howe, TE2:May 70:219:7286
"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73: 59
Recent Progress in Dual-Mode Bicycle Transportation, David M. Eggleston, BP73:Dec 73: 616
Seattle's Experiment in Free Transit, Donald Munro and Brian Krinbring, CE:Aug 74:86
Selected Bus Demonstration Projects, Louis J. Pignataro, John C. Falcocchio and Roger P. Roess, TE3:Aug 70:251:7454
Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
Transportation Access to Special Generators, Frederick J. Wegmann, John Ojo and Michael Kennedy, TE3:Aug 74:643:10728
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
Transportation Planning for Urban School Systems, Patrick R. Pickens and John M. Tyler, TE2:May 74:461:10555
Urban Mass Transportation: Review and Analysis, Stewart F. Taylor and Louis W. Petulla, TE2:May 70:175:7277
What Have Transit Demonstrations Really Shown?, Calvin O. Smith, TE2:May 71:325:8097

Bus Lines

Buses Get Exclusive Use of Freeway Median, Marvin C. Gersten and Jeanine M. Kahan, CE:July 70:68
Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, TE4:Nov 74:943:10936
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
Impact of Rail Transit on Bus Operations, Richard H. Pratt, TE1:Feb 71:31:7881
Optimizing Bus Use of Urban Highways, Herbert S. Levinson and William F. Hoey, TE2:May 74:443: 10558
Planning for the Metro, Thomas B. Deen, TE3:Aug 70:349:7476
Seattle's Experiment in Free Transit, Donald Munro and Brian Krinbring, CE:Aug 74:86
Transit Marketing in Chicago, George Krambles, TE2:May 71:361:8134

Butterfly Valves

Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB: Aug 73:141
Cavitation in Butterfly Valves, James W. Ball and J. Paul Tullis, HY9:Sept 73:1303:9993

Butyl Rubber

Largest Butyl Rubber Lined Reservoir, Robert T. Chuck, CE:May 70:44

Cables

Behavior of Loaded Cable Systems, W. Terence O'Brien, ST10:Oct 68:2281:6162
Behavior of Prestressed Cable Truss Structures, Dwight E. Urelius and David W. Fowler, ST8:Aug 74:1627:10747
Dynamic Analysis of Cable-Stiffened Structures, Nicholas F. Morris, ST5:May 74:971:10556
Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, TE1:Feb 74:207: 10329
Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683
Static Ending Strain in Stranded Conductor, James C. Poffenberger and Puran R. Mehta, ST11:Nov 70: 2429:7687
Transmission Lines Probe a New Frontier, The Ocean, Ian Watson, Joseph A. Fischer and Lawrence A. Salomone, EPCE:Aug 74:557
Unique Solution for Difficult Rigging Problem, James F. Shafer, CO1:July 69:55:6680
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723

Cables (Ropes)

Analysis of Cable-Stayed Girder Bridges, Man-Chung Tang, ST5:May 71:1481:8116
Analysis of Inelastic Suspension Structures, Thomas M. Murray and Nicholas Willems, ST12:Dec 71: 27[illegible]8574
Analysis of Plane Prestressed Cable Structures, H. Mollmann, ST10:Oct 70:2059:7598
Analysis of Structures by Quadratic Programming, Mehdi S. Zarghamee, EM5:Oct 71:1495:8431
Cable Net: Continuous System Analysis, Hugh Tottenham and Paul G. Williams, EM3:June 70: 277:7347
Cables Support Office Building, Bogue B. Babicki, CE:Oct 71:64
Cable-Suspended Roof Construction State-of-the-Art, Subcommittee on Cable-Suspended Roof Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, John B. Scalzi, Chmn., ST6:June 71:1715:8190
Cable Suspended Roof for Munich Olympics, Fritz Leonhardt and Jorg Schlaich, CE:July 72:41
Computation of Cutting Length of Guys, Stanley J. Jarecki, Y. C. Lee and Paul P. Christiano, PO4:Dec 71:817:8587
Contact Stresses in Twisted Wire Cables, James W. Phillips and George A. Costello, EM2:Apr 73:331: 9676
Convergence in Highly Nonlinear Cable Net Problems, Anil K. Kar and Clyde Okazaki, ST3: Mar 73:321:9601
Direct Design of Taut Cables under Uniform Loading, Anthony J. Wilson and Robert J. Wheen, ST3:Mar 74:565:10427

Dynamic Analysis of Cable-Stiffened Structures, Nicholas F. Morris, ST5:May 74:971:10556
Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72: 1817:9127
Dynamic Response of Cable Networks, Nicholas F. Morris, ST10:Oct 74:2091:10895
Economical Design of Prestressed Plate Girder, Miloslav Tochacek and Champa L. Mehta, ST6: June 72:1273:8973
Ellet's Contribution to the Development of Suspension Bridges, Emory L. Kemp, PP3:July 73: 331:9872
Europe's Dramatic Cable-Stayed Bridges, Allen Firmage, CE:Sept 74:107
First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50
High-Strength End Fittings for FRP Rod and Rope, Richard A. Mitchell, Ruth M. Woolley and Nixon Halsey, EM4:Aug 74:687:10716
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
Incremental Response of 3-D Cable Networks, John W. Leonard, TN: EM3:June 73:621:9765
Inelastic Analysis of Suspension Roof Structures, Donald P. Greenberg, ST5:May 70:905:7284
Inelastic Stiffened Suspension Space Structures, John J. Jonatowski and Charles Birnstiel, ST6:June 70: 1143:7364
Influence of Edge Cables on Cable Network Behavior, Nejat Tugcu, TN: ST9:Sept 73:1970:9968
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
Main Cables of Newport Suspension Bridge, Blair Birdsall, ST12:Dec 71:2825:8606
Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71: 2837:8604
Membrane Analogy for Anisotropic Cable Networks, Bhupinder Pal Singh and Bhushan Lal Dhoopar, ST5:May 74:1053:10544
Montreal Boasts Cable-Stayed Bridge, Jean-Guy Demers and Ole Simonsen, CE:Aug 71:59
A More Exact Theory for Twisted Wire Cables, George A. Costello and James W. Phillips, TN: EM5:Oct 74:1096:10856
Newport Bridge Superstructure, Alfred Hedefine and Louis G. Silano, ST11:Nov 71:2653:8533
Nonlinear Analysis of Cable and Truss Structures, Frank Baron and Mahadeva S. Venkatesan, ST2: Feb 71:679:7937
Nonlinear Dynamics of Cables with Low Initial Tension, John W. Leonard, EM2:Apr 72:293:8805
Nonlinear Dynamics of Curved Cable Elements, John W. Leonard, TN: EM3:June 73:616:9765
Nonlinear Field Analysis of Structural Nets, R. Richard Avent, ST5:May 69:889:6556
Reliability of Redundant Cable System, Masaru Hoshiya, TN: ST11:Nov 71:2773:8490
Static Ending Strain in Stranded Conductor, James C. Poffenberger and Puran R. Mehta, ST11:Nov 70: 2429:7687
Study of Suspended Roof Model, Prem Krishna and Tej P. Agarwal, ST6:June 71:1671:8168
Tall Buildings Elastically Coupled, Ramiro Sofronie, TB:73:Ia-3-637
Transient Wind Loads on Circular Concave Cable Roofs, Paul P. Christiano, Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966
Two-Dimensional Cable Analysis, George R. Buchanan, ST7:July 70:1581:7436

Caissons
Caisson Construction Problems and Correction in Chicago, Clyde N. Baker, Jr. and Fazlur R. Khan, SM2:Feb 71:417:7934
Construction of the Foundations and Towers of the Brooklyn Bridge, George F. Flay, Jr., CEWAU:74: 36
Deep Foundations - Piles and Caissons, State-of-Art Report 4A, G. M. Cornfield, TB:73:Ia-11-925
Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838
Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
Machine-Bored Caissons for Earth-Retaining Systems in Europe, Herbert Weinhold, CE:July 70:64
Mine Subsidence and Support Methods in Pittsburgh Area, Richard E. Gray and James F. Meyers, SM4: July 70:1267:7407
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516
Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833
Seacoast Dam Separates Saltwater and Fresh, Chris C. Ziogas, CE:Feb 74:53
Some Load Transfer Data on Caissons in Hard Chicago Clay, Robert D. Holtz and Clyde N. Baker, Jr., PES:72:I-1223
A Study On Construction Of Floating Breakwaters Or Floating Platforms, Tae Sang Won, CEO-II:70: 943
Tied-Back Foundation Wall for Seattle First National Bank, William L. Shannon and Robert J. Strazer, CE:Mar 70:62
Vertical Stresses Due to Deep Foundations, Abraham Ellstein and Leonard Rapoport, 4PCSM:71:II243

Calcium
Effect of Inorganics on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, NSCD:71:85

Calcium Carbonates
Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722

Calcium Oxides
Sealing Leaks in Pipelines with Ammoniated Waters, Kenneth K. Tanji, L. D. Doneen and J. V. Kubes, IR1:Mar 69:171:6473

Calculations
The Programmable Calculator: A Place In Civil Engineering, Eugene E. Dallaire, CE:Feb 72:70
Simplified Method to Calculate Settlement Beneath Footings, Max L. Calhoon, CE:Feb 72:73

Calculators
Guidelines for Selecting a Programmable Calculator, Eugene E. Dallaire, CE:Mar 72:46
Natural Frequency on Programmable Calculator, Michael J. O'Rourke, TN: ST10:Oct 74:2169:10858
The Programmable Calculator: A Place In Civil Engineering, Eugene E. Dallaire, CE:Feb 72:70
Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44

Calculus of Variations
Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206
Elastic Stability of Cylindrical Shells Under External Pressure, Cary K.K. Mak, Luis E. Amaya and Harry C. Saxe, CEO-II:70:535
Variational Principle in Fluid Dynamics, Pierre F. Lemieux, Tharakkal E. Unny and R. N. Dubey, EM6:Dec 70:1031:7731

Calibrating
Calibration of Wave Recorders by an Optical Method, John A. Charlton, WAVES:Sept 74:247

Calibrations
Evaluation of Stress Cell Performance, Raymond J. Krizek, M. Hassan Farzin, Anwar E.Z. Wissa and R. Torrence Martin, GT12:Dec 74:1275:11030

California
Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127

Airport Overpass is technical esthetic winner, Yue-Chyou Yang and Kam-Shing Lo, CE:July 74:50

Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507

Application of PL-566 to Drainage Problem, Paul Tilker, IRS:Sept 72:17

Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings, Jay L. Smith and Dennis K. Ostrom, PO1:July 74:1:10652

Automation of an Existing Irrigation System - Part I, Richard G. Ericsen, IR73:Aug 73:369

The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551

Berkeley Offers Professional Masters Degree, Howard D. Eberhart, CE:Nov 73:74

Calculated Sand Fills and Groin Systems, John Simpson Hale, CE13:72:II-1385

California ASCE Sections Prepare Employment Guidelines, George S. Korbay and Ronald P. Gallagher, CE:Jan 72:52

California County Considers Esthetics, Victor Sauer, CE:Nov 73:70

Dsc, California Water: A Study in Resource Management, William Whipple, Jr., CE:Nov 72:115

California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78

Camanche Dike-2 Slurry Trench Seepage Cutoff, Walter F. Anton and David J. Dayton, PES:72:I-735

Case History of Los Angeles-Long Beach Harbors, Robert W. Whalin, Claude E. Chatham, Donald L. Durham and Ellis B. Pickett, WAVES:Sept 74:466

Case History of Mission Bay Inlet, San Diego, California, William J. Herron, Jr., CE13:72:II-801

Century Park Plaza, Welton Becket and Associates, TB:73:C-P-334

Cleanup of San Diego Bay, Roy E. Dodson, CE:Mar 72:62

Closing the Last Unlicensed Gap in the Construction Process, Edward R. Fisk, CE:Sept 74:96

Coastal Sand Mining in Northern California, U.S.A., Orville T. Magoon, John C. Haugen and Robert L. Sloan, CE13:72:II-1571

Criteria for Lateral Pressures for Braced Cuts, William J. Armento, PES:72:I-1283

Cyclic Sedimentation in Agua Hediona Lagoon, Southern California, John R. Ritter, TN: WW4:Nov 72:597:9373

Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887

Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134

Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105

EBMUD's Programs for Inspection and Remedial Treatment of Old Dams, Walter F. Anton, IMROD:Sept 73:829

Ecological Impacts of Water Projects in California, Robert M. Hagan and Edwin B. Roberts, IR1:Mar 72:25:8780

Effect of Long Period Waves on Hydrographic Surveys, Orville T. Magoon and William O. Sarlin, 12CEC:71:2251

Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93

Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50

Foundation Design for Buildings on Soft Clay in Earthquake Zone, James E. Roberts and Edward Margason, CE:Feb 74:56

Foundations of Existing Dams -- Seepage Control, James E. Ley, IMROD:Sept 73:584

Gabions Used In California Flood Control, Fred R. Cline, (Deceased) and Edward Koehm, CE:Mar 74:68

Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149

Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127

Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136

Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133

Los Angeles County Flood Control System and the Early 1969 Storms, Walter J. Wood, CE:Jan 70:58

Managing Multiriver System—Past, Present, and Future, R. Gene Pollan, HY10:Oct 74:1429:10873

Nader's Raiders Versus California Water Project, James H. Krieger, PP1:Jan 73:39:9490

Optimization of Multiple Reservoir System, William J. Trott and William Wen-Gong Yeh, HY10:Oct 73:1865:10065

Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176

Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405

An Owner's Program for the Investigation and Analysis of Its Dams, Richard B. Roche, Jr., IMROD:Sept 73:516

Performance of Briones Dam, Walter F. Anton and David J. Dayton, PES:72:I-853

Powerplant Chamber Under Oroville Dam, George H. Kruse, URC:72:333

Precise Dam Surveys—Los Angeles County Flood Control District, Don F. Keene, SU2:Nov 74:99:10925

Preliminary Design and Construction Concepts for Auburn Dam, James Legas, ECCD:72:181

Program for Investigation and Analysis of Dams -- Los Angeles County Flood Control District, Richard B. Roche, Jr., IMROD:Sept 73:804

Proposed Tracked Air Cushion Vehicle System for Los Angeles International Airport, William M. Schoenfeld, NA:Mar 71:115

Public Participation in Urban Water Planning, Thomas C. Ferrara, Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585

Residential-Recreation Development, Alan T. Hill, CE:Dec 71:60

San Francisco Bar Dredge Material Disposal, Richard M. Ecker and John F. Sustar, CE13:72:II-913

San Francisco Bay Balancing of Development and Conservation Proposed, E. Jack Schoop, CE:May 69:54

Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171

Sediment Distribution and Its Relations to Circulation Patterns in Bolinas Bay, California, P. Wilde and T. Yancey, 12CEC:71:1397

Seismic Analysis and Design of the San Onofre Nuclear Generating Station, Units 2 and 3 Containment, Jay W. Wiley, Jr., Kenneth M. Schechter, Don L. Price and P. W. Koss, EPCE: Aug 74:13

Seismic Safety Study of Henshaw Dam, Charles G. Wolfe, IMROD:Sept 73:871

Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, GT5:May 74:523:10553

Silver Lake Reservoir Reconstruction, LeVal Lund, IMROD:Sept 73:814

Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140

Some Factors Affecting Control of Flow in a Large Canal System, Johannes J. DeVries and Jaime Amorocho, IR73:Aug 73:329

Status of Weather Modification in Watershed Management, Merlin C. Williams, IR4:Dec 71:585:8608

Structural Design of Angeles Tunnel Surge Chamber, Rossiter L. White, PO1:July 74:71:10644

Study of Wave Climate in Nearshore Waters, Steven S. Pawka, WAVES:Sept 74:745

Suppression of Evaporation Losses from Snowpacks, James L. Smith and Howard G. Halverson, IAWM:72:5

Surge in the Southeast Basin, Long Beach Harbor, Calif., Basil W. Wilson, James A. Hendrickson and Yuan Jen, CE13:72:III-2617

Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991

Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810

Transient Control in Lower Sacramento River, Fred J. Gientke, HY3:Mar 74:405:10418

UCLA Professional Certificate Program in Engineering Management for Public Works, Alfred C. Ingersoll and Ricardo Gonzales, Jr., EI1:Jan 74:45:10301

UCSB Bikeways - Notes and Comments, Peter Chapman, BP73:Dec 73:672

United California Bank, Ormond Robert Berry, TB:73:C-P-251

Unusual Foundation Developments and Corrective Action Taken, Doyle L. Christensen, EFFD:Mar 74:343

Venice Waterways Project Impact Reports, Donald C. Tillman and Lloyd D. Paulsen, UP2:Nov 74:191:10935

Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178

Water Quality Control in California, B. Norman Hume, SA4:Aug 70:873:7448

Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204

Water Resources Management, Langdon W. Owen, SEA:70:157

When is Tertiary Treatment the Wrong Solution to a Non-Problem?, Hayman W. Stokes and Lloyd D. Hedenland, CE:Sept 74:86

Which First Higher Fees or Higher Salaries, Cranston Rogers, CE:Aug 73:76

California Bearing Ratio

Structural Analysis of Flexible Airfield Pavements, Richard G. Ahlvin, Yu Tang Chou and Ronald L. Hutchinson, TE3:Aug 74:625:10727

Camber

Hyperbolic Functions for Prestress Loss and Camber, Raouf Sinno and Howard L. Furr, ST4:Apr 70:803:7227

Canada

Analysis of Friction Piles, George A. De Pauw, CE:Oct 74:60

An Analysis of the Cracking at Duncan Dam, Zdenek Eisenstein, A. V.G. Krishnayya and Norbert R. Morgenstern, PES:72:I-765

Beach Changes and Wave Conditions, New Brunswick, S. Brian McCann and Edward A. Bryant, CE13:72:II-1293

The Canadian Wave Climate Study - the Formative Year, Laurence Draper, 12CEC:71:1

Churchill Falls Power Facilities, D. Wermenlinger, J. G.S. Thompson and J. M. Gardiner, PO2:Mar 71:515:7974

CIL House, M. I. Gilmore, TB:73:C-P-284

Citizens help plan Ottawa freeway, CE:July 74:60

Commerce Court, M. I. Gilmore, TB:73:C-P-294

Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009

A Discussion of Some Measured Wave Data, J. R. Wilson and W. F. Baird, CE13:72:I-113

Economic Criterion for Highway Capacity Determination, Bruce G. Hutchinson, TE3:Aug 72:465:9120

Feasibility of Water Export, Edward Kuiper, HY4:July 68:873:6024

Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290

Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051

How Land Surveying Is Being Modernized, Robert T. Howe, SU1:July 72:17:9049

The Kars (Ontario) Embankment Foundation, Gerald P. Raymond, PES:72:I-319

La Protection des Plages du Littoral du Lac Saint-Jean, Richard Bolvin and Yvon Cousineau, CE13:72:II-1485

Le Chateau Champlain, T. A. Monti, TB:73:C-P-278

Lifetime Wave Height Curve for Saint John Deep, Canada, J. Khanna and P. Andru, WAVES:Sept 74:301

Manicouagan 3 Cut-Off, Yves Pigeon, EFFD:Mar 74:289

Marine Monitoring of the Victoria Sewerage System, Norval Balch, Derek V. Ellis and Jack L. Littlepage, CE13:72:III-2117

Natural Cleaning of Oil Polluted Seashores, Georges Drapeau, CE13:72:III-2547

On the Need of Wave Data for the Design of Rubble-Mound Breakwaters, Yvon Ouellet, WAVES:Sept 74:500

Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089

The Practice of Foundation Engineering in Canada, Victor Milligan, 4PCSM:71:II355

A Preliminary Study of Storm Surges in Hudson Bay, K. B. Yuen and T. S. Murty, CE13:72:I-215

Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087

Public Participation in Planning the St. John River, Desmond M. Connor and Keith T. Bradley, OIDS:72:279

Rock Mechanics at Churchill Falls, Raymond P. Benson, Robert J. Conlon, Andrew H. Merritt, Paul Joli-Coeur and Don U. Deere, URC:72:407

Rock Mechanics Studies--Mica Project, B.C., Paul Meidal and R. Kenneth Dodds, URC:72:203

Royal Bank Building, M. I. Gilmore, TB:73:C-P-288

Sediment Budget of the Lower Fraser River, Nick Tywoniuk, CE13:72:II-1105

Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, TE1:Feb 74:207:10329

Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, CE:May 74:58

Toronto Converts Decaying Waterfront into Parks, Jack M. Jones, CE:Sept 73:74

Toronto-Dominion Center, M. I. Gilmore, TB:73:C-P-301

Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592

Use of Decision Theory in Reservoir Operation, Samuel O. Russell, HY6:June 74:809:10586

Vancouver Uses Innovative Ways for Placing Large Submarine Pipelines, Doug McKay, Don Gillis and Robin Durward, CE:Oct 74:74

Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, Alexander Penman, CE:Nov 73:65

Canal Linings

Design of a Barrel-Vault Cofferdam, James A. Cheney, ST4:Apr 69:677:6511

Water Depths Required for Ship Navigation, Richard G. Waugh, Jr., WW3:Aug 71:455:8309

Canals

Alluvial Channel Resistance to Bed Form, Kenneth V.H. Smith, HY1:Jan 68:59:5720

Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381

Automation in California's State Water Project, Robin R. Reynolds and Welby R. Madsen, PL3:Nov 67:15:5574

Automation of an Existing Irrigation System - Part I, Richard G. Ericsen, IR73:Aug 73:369

Barge Transportation-Energizer of Production and Marketing, Braxton B. Carr, WW2:May 69:163:6559

Biological Control of Aquatic Weeds, Robert D. Blackburn, David L. Sutton and Thomas Taylor, IR3:Sept 71:421:8362

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177

Computer Controls for Aqueduct Operation, Alfred R. Golze, PL1:Oct 68:19:6145

Control of Ice Jams at Barrett Chute G.S., David R. Townsend, PO3:July 71:597:8244

Control of Transient Free-Surface Flow, E. Benjamin Wylie, HY1:Jan 69:347:6360

Coordinated Operation of Central Valley and State Water Projects, Welby R. Madsen and David G. Coleman, HY10:Oct 74:1399:10887

Corrugated Metal Flumes, Tadaaki Naruse, OIDS:72:219

The Cross-Florida Barge Canal: A Lesson in Ecology, Suzy Fisher, CE:Apr 71:44
Currents in an Interoceanic Canal, Edwin W. Eden, Jr., HY1:Jan 69:79:6342
Current Water Systems Automation Research and Development in the Bureau of Reclamation, Charles A. Calhoun, IR73:Aug 73:353
Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
Determination of Efficient Open Channel Sections, Mohammad Ali Mahdaviani, HY6:Nov 67:103:5567
Effects of Mechanical Cleaning Operations on Flow In Large Conduits, George F. Horowitz and Nelson N. Lee, HY5:May 71:677:8110
Geohydrologic Aspects of Cross-Florida Barge Canal, Glen L. Faulkner, SEA:70:307
Great Falls Canal and Locks: Civil Engineering Landmark, CE:Nov 72:53
Interoceanic Canal Navigation Criteria, Edwin W. Eden, Jr., WW2:May 70:395:7288
Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973
New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
New Role of Engineers as Trained Divers, Thomas E. Morris, IRS:Sept 72:257
Nuclear Excavation of an Elat-Dead Sea Waterway, Aviva E. Gileadi and Wilson K. Talley, WW3:Aug 69:329:6730
Numerical Solution of Saint-Venant Equations, Theodor S. Strelkoff, HY1:Jan 70:223:7043
Operation and Maintenance of Colorado Aqueduct, Henry J. Mills, IR1:Mar 71:203:8007
Optimizing of Canal Flow in All Seasons, E. L. Hamilton, OIDS:72:521
Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106
Public Irrigation Systems In Puerto Rico, Garcia Rafael Reyes, IR1:Mar 71:109:7953
Regime Theory Design of Canals with Sand Beds, Thomas Blench, IR2:June 70:205:7381
Sector Gates in Bangkok Klong System, Fred C. Stepanich, WW4:Nov 71:721:8549
Sediment Routing in Irrigation Canal Systems, Khalid Mahmood, IR1:Mar 74:49:10401
Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875
Similarity in Unlined Irrigation Canal Systems, Kenneth V.H. Smith, HY1:Jan 70:13:6993
Some Factors Affecting Control of Flow in a Large Canal System, Johannes J. DeVries and Jaime Amorocho, IR73:Aug 73:329
Stars in the Water-The Story of the Erie Canal (Book Review-J. W. Briscoe), George E. Condon, CE:Oct 74:32
A Study of a Slide-prone Clay in Panama, Ralph R. W. Beene, 4PCSM:71:II129
Surge Problems in Canals with High-Lift Locks, Donald M. Liddell, WW2:Nov 69:467:6898
Tonnage Capacity of Locks, John P. Davis, WW2:May 69:201:6577
Unsteady Free-Surface Flow Computations, E. Benjamin Wylie, HY11:Nov 70:2241:7683
Use of Pipelines in the California Water Project, Alfred R. Golze, PL3:Nov 67:25:5584
Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514
Weed Control in Arid Southwest, James W. Kirby and A. Darrell Summers, IR4:Dec 71:571:8570

Canal Seepage
Agricultural Waste Management, by the Committee on Agricultural Waste Management of the Environmental Engineering Division, Dan M. Wells, Chmn., EE1:Feb 74:1:10317

Cantilever Beams
Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470
Elastic Lateral Buckling of Steel Beam, Graham H. Powell and Richard Klingner, ST9:Sept 70:1919:7555
Flexibility Influence Functions for Curved Beams, Myron C. Young, ST7:July 69:1407:6657
Lateral Stability of Nonuniform Cantilevers, Campbell Massey and Peter J. McGuire, EM3:June 71:673:8172
Tapered Cantilevers with Varying Distributed Loads, Tung-Ming Wang and Chun-Hsiung Lee, TN: EM4:Aug 73:919:9898

Cantilevers
Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, Jacob Gluck and Menachem Gelbert, ST9:Sept 72:2031:9196
Column Instability Under Weight and Follower Loads, David J. McGill, EM3:June 71:629:8196
Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), H. Rubin, TB:73:II-17-709
Stability of Monosymmetric Beams and Cantilevers, John M. Anderson and Nicholas S. Trahair, ST1:Jan 72:269:8646
Stress Analysis of Group of Interconnected Thin-Walled Cantilevers, Jacob Gluck and Mordechai Krauss, ST10:Oct 73:2143:10089

Capacitors
Capacitance Techniques For Radial Deformations, Adolph G. Altschaeffl and Louis P. Mishu, TN: SM4:July 70:1487:7387

Capacity
Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131
Economic Criterion for Highway Capacity Determination, Bruce G. Hutchinson, TE3:Aug 72:465:9120
Optimization of Runway Exit Configurations, Everett S. Joline, TE1:Feb 74:85:10350

Capillarity
Capillarity and Seepage from an Array of Channels, John C. Bruch, Jr., EM6:Dec 69:1403:6972
Similitude Criteria for Flow from Unconfined Aquifers, Rameshwar D. Verma and Wilfried Brutsaert, HY9:Sept 71:1493:8397

Capillary Flow
Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9:Sept 72:1527:9186

Capital Costs
Design and Economics of Joint Wastewater Treatment, W. Wesley Eckenfelder, Jr., SA1:Feb 72:153:8746

Capitalized Costs
Systems Approach to Petroleum Site Selection, William S. Gaither and John Patrick Sides, WW3:Aug 69:395:6750

Carbon
Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5:Oct 73:639:10043
Nutrients And Aquatic Vegetation Effects, G. Wolfgang Fuhs, EE2:Apr 74:269:10453
Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607:10048

Carbon Compounds
Settlement Due to Chemical Attack of Soils, Robert G. Lukas and Robert J. Gnaedinger, Jr., PES:72:I-1087

Carbon Dioxide
Influence of Free CO_2 on Q_{10} for Chlorella vulgaris, John T. Novak and H. David Sanders, TN: EE3:June 74:798:10571

Carbon Monoxide

Air Pollution Patterns in an Urban Street Canyon, Frederick A. Brunner and Karl B. Schnelle, Jr., EE2:Apr 74:311:10447

Carbon 14

Carbon-14 Ages Related to Occurrence of Salt Water, William Back, Bruce B. Hanshaw and Meyer Rubin, HY11:Nov 70:2325:7702

Careers

Career Guidance, Ross M. Lanius, Jr., EI2:Apr 74:111:10465

Career Guidance Programs for Minority Youth, Lawrence M. Moy and James E. Roembke, EI3:July 74:207:10691

How to Entice Minority Youth into Engineering, Howard Jackson, CE:July 74:54

University of Wisconsin Offers Professional Development Degree, John P. Klus and C. Allen Wortley, CE:Jan 72:49

Cargo

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Cargo Transportation

Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131

Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570

Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72:333:9126

Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Urban Commodity Flow - Suggested Research Projects, Warren B. Lovejoy, UP1:July 72:55:9047

Urban Goods Movement Planning Methodology, Arnim H. Meyburg, Walter J. Diewald and Garrison P. Smith, TE4:Nov 74:791:10914

Cast-In-Place Piles

Behavior of Bored Piles in Sand, Fadlo T. Touma and Lymon C. Reese, GT7:July 74:749:10651

Some Load Transfer Data on Caissons in Hard Chicago Clay, Robert D. Holtz and Clyde N. Baker, Jr., PES:72:I-1223

Cast-In-Place Structures

Cast-in-Place Joints for Tall Concrete Buildings, State-of-Art Report 3, James O. Jirsa, TB:73:III-21-191

Catalysts

Oxidation of Sulfide by O_2: Catalysis and Inhibition, Kenneth Y. Chen and J. Carrell Morris, SA1:Feb 72:215:8710

Catch Basins

Storm Drainage Practices of Thirty-two Cities, Colby V. Ardis, Kenneth J. Dueker and Arno T. Lenz, HY1:Jan 69:383:6365

Catchments

Fitting Methods for Conceptual Catchment Models, Richard P. Ibbitt and Terence O'Donnell, HY9:Sept 71:1331:8370

Cationic Asphalt Emulsions

Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172

Causeways

Proposed Santa Monica Causeway Project, James W. Dunham, WW4:Nov 68:425:6219

Caves

Crude Storage: Tanks or Caverns?, M. P. Daruwalla and J. N. Hagg, CE:Apr 71:38

Caving Mining

Shotcrete Practices at the Henderson Mine, Robert C. Jones, SUSS:July 73:50

Cavitation

Cavitation and Size Scale Effects for Orifices, J. Paul Tullis and Rangachari Govindarajan, HY3:Mar 73:417:9605

Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB:Aug 73:141

Cavitation in Butterfly Valves, James W. Ball and J. Paul Tullis, HY9:Sept 73:1303:9993

Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678

Cavitation in Horizontal Pipelines Due to Water Hammer, J. P. Th. Kalkwijk and C. Kranenburg, HY10:Oct 71:1585:8440

Cavitation Parameters for Outlet Valves, W. Paul Winn and David E. Johnson, HY12:Dec 70:2519:7771

Cavitation Scale Effects for Valves, J. Paul Tullis, HY7:July 73:1109:9874

Choking and Supercavitating Valves, J. Paul Tullis, HY12:Dec 71:1931:8593

Designing Spillway Crests for High-Head Operation, John J. Cassidy, HY3:Mar 70:745:7153

Flow-Induced Forces on Protruding Walls, Eduard Naudascher and Frederick A. Locher, HY2:Feb 74:295:10347

Gas Release During Transient Cavitation in Pipes, C. Kranenburg, HY10:Oct 74:1383:10892

Mechanical Equipment at Edmonston Pumping Plant, Samuel Fong, CO3:Sept 74:279:10794

Needle Valves as Pressure Regulators, J. Paul Tullis and Maurice L. Albertson, HY5:Sept 69:1633:6787

Oroville Dam Diversion Tunnels, Cortland C. Lanning, PO2:Oct 67:51:5506

Reducing Cavitation in Valves, J. Paul Tullis and Morris M. Skinner, HY6:Nov 68:1475:6255

Valve Stroking in Separated Pipe Flow, Morris Driels, HY11:Nov 74:1549:10940

Cavities

Expansion of Cavities in Infinite Soil Mass, Aleksandar Sedmak Vesic, SM3:Mar 72:265:8790

In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72:899:9202

Subsurface Video Pulse Radars, David L. Moffatt, EFSE:Aug 74:195

Cell Morphology

Energy Concepts of Aerobic Microbial Metabolism, Carl E. Burkhead and Ross E. McKinney, SA2:Apr 69:253:6505

Cellular Structures

Soils Engineering For Wells Project, Harris H. Burke, PO2:Mar 71:317:7976

Stability of Cellular Cofferdams Against Vertical Shear, Melvin I. Esrig, SM6:Nov 70:1853:7654

Cement Grouts

Cement Stabilized Fill for Conduit Support, Richard B. Catanach and Thomas N. McDaniel, TN: SM6:June 71:959:8162

Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908

Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172

Mine Grouting to Control Building Settlement, Charles I. Mansur and Marion C. Skouby, SM2:Mar 70:511:7166

Cements

Chemical Resistant Resurfacing Mortar for Industry, Dallas Grenley and Lou Kuhlmann, CO2:June 74:133:10603

Construction Of Large Concrete Ocean Structures, Ben C. Gerwick, Jr., CO1:Mar 71:1:7991

Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, Clyde E. Kesler, TB:73:III-25-757

Developments in Cement Technology, George Verbeck, ECCD:72:33

European Versus United States Grouting Practices, P. Rigny, EFFD:Mar 74:37

Flexural Behavior Of Ferro-Cement Panels, Wen F. Chang, D. W. Gibson and N. R. Gibbons, CEO-II:70:1023

Fracture and Stress-Strain Relationship of Concrete Under Triaxial Compression, Ranga Palaniswamy and Surendra P. Shah, ST5:May 74:901:10547

Quality Control and Application - New Melones Project, Leland A. Case, SUSS:July 73:235

Soil-Cement Bases Under Thin Bituminous Surfacing, Boniface C. Obi, TE2:May 72:167:8871

Solidification of Sludges with Portland Cement, E. Alan Cassell and Thomas W. Walker, SA1:Feb 70:15:7053

Special Cements, George Verbeck, RCCD:70:51

Summary of Workshop B - Shotcrete Design, P. L. Boileau, SUSS:July 73:232

Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588

Use of Special Cements in Shotcrete, Madan M. Singh and Seymour A. Bortz, SUSS:July 73:200

Centers

New Centers for Regional Development, Ronald Greenwald, CE:Sept 69:79

Central City

Beltway and Tax Base Impacts, Floyd I. Thiel, UP1:Mar 73:105:9619

Centrifuges

Estimation of Sludge Centrifuge Performance, P. Aarne Vesilind, SA3:June 70:805:7378

Scale-Up of Solid Bowl Centrifuge Performance, P. Aarne Vesilind, EE2:Apr 74:479:10474

Chambers

Fourth Dimension for Urban Environment, Kenneth E. Sorensen, UP1:Apr 71:91:8064

Underground Chamber Crushes Rock for Dworshak Dam, Charles O. Faris, CE:June 71:75

Change Orders

Effective Contract Administration in Construction Management, Donald F. Scott, CO2:June 74:117:10599

Channel Flow

Analysis of Ephemeral Flow in Aridlands, Chester C. Kisiel, Lucien Duckstein and Martin M. Fogel, HY10:Oct 71:1699:8455

Channel Improvements

The Arkansas River Project, Ronald A. Antonino, CE:Dec 69:44

Density Induced Return-Currents in Outlet Channels, Ben P. Rigter, HY2:Feb 70:529:7086

The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60

Let's Take a Look at Channel Improvement, Frank P. Erichsen, IAWM:72:261

Channeling

Boulder Creek - An Environmental Status Report, Gerard E. Mick, CO1:Mar 74:1:10389

Channels

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177

Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157

Development and Future of Dredging, Adolph W. Mohr, WW2:May 74:69:10513

Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831

Friction Factors in Solid-Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854

Linear-Momentum Flux to Overbank Sections, Robert R. Wright and Marion R. Carstens, HY9:Sept 70:1781:7517

Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952

Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875

Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506

Two-Dimensional Analysis of Backwater at Bridges, J. Thomas Franques and Dannial W. Yannitell, HY3:Mar 74:379:10403

Channels (Waterways)

Analysis of Canal Seepage to Interceptor Drain, Heramb D. Sharma and Amrik S. Chawla, IR3:Sept 74:351:10819

Barge Transportation-Energizer of Production and Marketing, Braxton B. Carr, WW2:May 69:163:6559

Capillarity and Seepage from an Array of Channels, John C. Bruch, Jr., EM6:Dec 69:1403:6972

Channel Rectification Engineering Survey Program, John M. Shields, SU1:May 71:61:8119

Channel Slope Effect on Peak Discharge of Natural Streams, Charles L. Armentrout and Robert B. Bissell, HY2:Feb 70:307:7052

Computation of Open-Channel Surges and Shocks, George Terzidis and Theodor S. Strelkoff, HY12:Dec 70:2581:7780

Congestion in Marina Entrance Channels Due to Sailboats, Allen L. Ely and John M. Nichol, WW4:Nov 73:415:10137

Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45

Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559

Design of Stable Channels in Alluvial Materials, R. M. Haynie and Daryl B. Simons, HY2:Nov 68:1399:6217

Development of Roll-Wave Trains in Open Channels, Richard R. Brock, HY4:July 69:1401:6704

Difference Method for Higher-Order Equations of Flow, G. S. Rodenhuis, HY3:Mar 73:471:9628

Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11:Nov 72:1969:9330

Distribution of Tractive Force in Open Channels, Viswanathan C. Kartha and Hans J. Leutheusser, HY7:July 70:1469:7415

Economic Channels and Maneuvering Areas for Ships, Clarence F. Wicker, WW3:Aug 71:443:8308

Effect of Channel Shape on Varied Flow Profiles, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY1:Jan 71:55:7796

Effect on Waterway Depth and Alignments, Casimir J. Kray, WW2:May 70:497:7305

Erosion Control in Relation to Watershed Management, William R. Moore and C. Edwin Smith, IR3:Sept 68:321:6126

Flood-Plain Development Must be Ecologically and Economically Sound, James E. Goddard, CE:Sept 71:81

Flood Wave Modification Along Prismatic Channels, Giampaolo DiSilvio, HY5:Sept 69:1589:6777

Four-Point Method of Characteristics, Michael B. Abbott and Adrianus Verwey, HY12:Dec 70:2549:7763

Free Surface Slopes at Controls in Channel Flow, David L. Wilkinson, HY8:Aug 74:1107:10753

Friction Factors for Flow in Sand Bed Channels, Abu M.Z. Alam and John F. Kennedy, HY6:Nov 69:1973:6900

Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72:1057:8952

Interoceanic Canal Navigation Criteria, Edwin W. Eden, Jr., WW2:May 70:395:7288

New Horizons in the Field of Tidal Hydraulics, Clarence F. Wicker, HY1:Jan 69:147:6346
Nondimensional Gradually Varied Flow Profiles, Cheng-lung Chen and Chun-Tsung Wang, HY5: Sept 69:1671:6790
Nuclear Excavation of an Elat-Dead Sea Waterway, Aviva E. Gileadi and Wilson K. Talley, WW3:Aug 69:329:6730
Potamology Data Collection on Lower Mississippi River, Charles M. Elliott, WW3:Aug 70:601:7466
Research on Sleepers River at Danville, Vermont, Martin L. Johnson, IR1:Mar 70:67:7184
River Erosion Due to Channel Relocation, Lawrence W. Yearke, CE:Aug 71:39
River Metamorphosis, Stanley A. Schumm, HY1:Jan 69:255:6352
A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071
Seepage from Trapezoidal Channels, Satya P. Garg and Amrik S. Chawla, HY6:June 70:1261:7335
Sill-Controlled Flow Transitions and Extent of Erosion, Walter Rand, HY4:Apr 70:927:7212
Speed of Ships in Restricted Navigation Channels, R. Bryan Schofield, WW2:May 74:133:10539
Stochastic Open Channel Flow, Chao-Lin Chiu, EM3:June 68:811:5999
Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691: 9216
Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235
Transverse Flow in a River due to Earth's Rotation, Hans A. Neu, HY5:Sept 67:149:5434
Two Innovations for Improving Harbor Resonators, William James, WW1:Feb 71:115:7871
Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468
Uses of Models in Resolving Tidal Problems, Henry B. Simmons, HY1:Jan 69:125:6345
Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514
Vessel Controllability in Restricted Waters, Edwin W. Eden, Jr., WW3:Aug 71:475:8310
Water Waves Over a Rectangular Channel Through a Reef, Nabil Hilaly, WW1:Feb 69:77:6409

Channel Stabilization
Coordination of Mobile-Bed Hydraulics, Thomas Bunch, HY6:Nov 69:1871:6884
Energy Dissipators for Large Culverts, Thomas C. MacDonald, HY6:Nov 69:1941:6893
Experiences with Bed Sills in Stream Stabilization, Robert P. Apmann and Paul H. Blinco, WW3:Aug 69:319:6724
Flow Processes in Open Channel Bends, Robert P. Apmann, HY5:May 72:795:8886
Gabions Guard River Banks Against 50,000 cfs Flows, Serge Lavagnino, CE:May 74:88
Navigation Model Tests for Straight Reach of Missouri River, Duane J. Sveum and Warren J. Mellema, WW2:May 72:191:8867
Potamology Data Collection on Lower Mississippi River, Charles M. Elliott, WW3:Aug 70:601:7466
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071
Self-Stabilizing Tendencies of Alluvial Channels, Johannes Gessler, WW2:May 70:235:7263

Characteristics
Bedrock Motions Computed from Surface Seismograms, Constantine N. Papadakis, Victor L. Streeter and E. Benjamin Wylie, GT10:Oct 74: 1091:10853
Photographs of Tall Buildings, State-of-Art Report 2, N. Abaya and E. Ozer, TB:73:C-AC14-113
Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691
Tall Buildings: Major Characteristics, State-of-Art Report 1, E. Ozer, N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93

Charging
Industrial Waste Charges, James A. Seagraves, EE6: Dec 73:873:10203
Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253: 9795

Charts
Chart Compilation-Field and Office, William J. Monteith, SU2:Sept 70:157:7522
Study of Clay Shale Slopes, Don C. Banks, RM13:72: 303
Water-Hammer Charts for Various Types of Valves, Don J. Wood and S. E. Jones, HY1:Jan 73:167: 9500

Check Structures
Irrigation Channel Structures, Victoria, Australia, Keith A. Murley, IR2:June 70:131:7371

Chemical Analysis
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, NSCD:71:37
A New Analytical Method for Ozone, R. F. Layton and Riley N. Kinman, NSCD:71:285
Recent Advances in Determining Free Chlorine, George Patterson Whittle, NSCD:71:269
Status of Methods for Halogen Determination (Br-Cl), Frank W. Sollo, Florence F. McGurk and Thurston E. Larson, NSCD:71:245

Chemical Cleaning
Restoring Subsurface Drain Performance, Luther B. Grass and Arnold J. MacKenzie, IR1:Mar 72:97: 8759

Chemical Composition
Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10: Oct 71:1431:8451

Chemical Grouts
Chemical Grouting for Paris Rapid Transit Tunnels, Jean J. Janin and Guy F. Le Sciellour, CO1:June 70:61:7382
Selection of Chemical Grout for Mattmark Dam, Herbert H. Einstein and Gerold Schnitter, SM6: Nov 70:2007:7684
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332

Chemical Properties
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, NSCD: 71:319

Chemical Reactions
Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Disinfectant Chemistry and Biocidal Activities, J. Carrell Morris, NSCD:71:609
Modern Concept of Disinfection, Shih L. Chang, NSCD:71:635
Settlement Due to Chemical Attack of Soils, Robert G. Lukas and Robert J. Gnaedinger, Jr., PES:72:I-1087
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332

Chemical Removal (Sewage Treatment)
Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098
Chemical Treatment, Walter J. Weber, Jr. and Tom H. Forrest, CWFE:Mar 71:183

Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Philipps, NSCD:71:163
Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946
New Approaches to Wastewater Treatment, Robert L. Stenburg, John J. Convery and Charles L. Swanson, SA6:Dec 68:1121:6296
New Wastewater Treatment Processes: EPA Encourages Adoption, Charles L. Swanson, CE:Sept 71:49
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
Stockholm Puts Sewage Plant Underground, Gosta E. Sandstrom and Edlund Strom, CE:Sept 73:78
Tertiary Treatment by Flocculation and Filtration, DeFro Tossey, Paul J. Fleming and Ronald F. Scott, SA1:Feb 70:75:7106

Chemical Removal (Water Treatment)

Chemical Treatment, Walter J. Weber, Jr. and Tom H. Forrest, CWFE:Mar 71:183

Chemical Stabilization

Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72:327:8827
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
Creating Hydrophobic Soil for Water Harvesting, Lloyd E. Myers and Gary W. Frasier, IR1:Mar 69:43:6436

Chemistry

Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, NSCD:71:37
Disinfectant Chemistry and Biocidal Activities, J. Carrell Morris, NSCD:71:609
Status of Water Disinfection with Iodine, Riley N. Kinman, A. P. Black and W. C. Thomas, Jr., 4NSCD:71:11

Chicago

Building B -- Santiago Central Development Program, J. Aguirre, C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
Chestnut-DeWitt Apartments, Skidmore, Owings & Merrill, TB:73:C-P-496
Chicago Bikeway Progress Report, John N. LaPlante, BP73:Dec 73:307
The Chicago Civic Center, Skidmore, Owings & Merrill, TB:73:C-P-492
Chicago Experience, Joseph P. McDermott, BP73:Dec 73:172
Chicago's Sludge-Recycling Project Wins 1974 Outstanding Civil Engineering Achievement Award, CE:June 74:43
Empresa Nacional de Electricidad S. A. - Endesa's Building, Luis Larraguibel, TB:73:C-P-478
The Engineer and the Crisis of the Cities, Milton Pikarsky, PWS:Nov 72:19
Flood Plain Engineering and Management in Metropolitan Chicago, Richard F. Lanyon, CE:May 74:79
John Hancock Center, Skidmore, Owings & Merrill, TB:73:C-P-498
Performance of Bracing for Deep Chicago Excavation, Edwin Paul Swatek, Jr., Sherwin P. Asrow and Arthur M. Seitz, PES:72:I-1303
Performance of Two Slurry Wall Systems in Chicago, James A. Cunningham and Jose I. Fernandez, PES:72:I-1425
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205:9971
Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351:8888
Rotonda Vitacura Building, J. Aguirre and A. Aguirre, TB:73:C-P-482
Sears Tower, Skidmore, Owings & Merrill, TB:73:C-P-500
Standard Oil of Indiana Building in Chicago, E. Alfred Picardi, TB:73:C-P-244
Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
200 West Monroe Building, Welton Becket and Associates, TB:73:C-P-306

Chile

Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255
Irrigation Practices in Desert Regions of Chile, Wulf Klohn, IRS:Sept 72:211

Chimneys

Approximate Fundamental Frequencies for Chimneys, Kuang-Han Chu and Junesun Park, TN:PO2:Nov 73:441:10115
Basic Structural Design of Concrete Chimneys, Wadi S. Rumman, PO3:June 70:309:7334
Brittle Failure of Steel Stack, Max Zar, PO1:July 74:33:10650
Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248
Concrete Chimney Design, Construction and Operation, Philip G. Sikes, PO3:June 70:449:7368
Design and Construction Features — Greenwood Unit One, Satyen M. Guha-Biswas, EPCE:Aug 74:279
Design of Browns Ferry Chimney, John W. Smith and Asgeir Jonsson, PO3:June 70:437:7359
Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
Dynamic Behavior of Steel Chimney Liners, Ronald G. Domer, EPCE:Aug 74:97
Dynamic Response of Steel Chinney Liners to Flue Gas Flow, J. J. Deans and J. G. Willmot, EPCE:Aug 74:47
Eddy Formation Behind Circular Cylinders, Alan D. K. Laird, HY6:June 71:763:8170
Introduction to the ASCE Recommended Practice for the Design and Construction of Steel Chimney Liners, Robert W. Mikitka and Randy W. Snook, EPCE:Aug 74:41
Lift or Across-Wind Response to Tapered Stacks, Barry J. Vickery and Arthur W. Clark, ST1:Jan 72:1:8634
Modeling Gas Mixing within Steel Chimney Liners, James J. Markowsky, EPCE:Aug 74:137
Some Biological Impacts of Converting Powerplants from Oil to Coal, Paul F. Berg, EPCE:Aug 74:623
Sulfur Dioxide Dilemma: Is the Scrubber the Answer?, Virginia Fairweather, CE:June 74:64
Tallest Smoke Stack for Mitchell Plant, William W. Stelle, CE:Mar 69:44
Thermal Behavior of a 1000 Foot Steel Chimney Liner, Joseph W. Fortey and Raymond R. Funk, EPCE:Aug 74:161
Top-Supported Chimney Liners, Daryoush Motarjemi, EPCE:Aug 74:177
TVA Experience with Concrete Chimney Linings, Charles D. Durfee, PO2:Oct 69:193:6826
Vibration of Chimney Supported on Elevated Concrete Slab, Elias G. Abu-Saba, ST2:Feb 71:619:7936
Vibrations of Stacks Supported on Steel Structures, Anthony Morrone, ST12:Dec 69:2831:6965

China

Experimental Studies on the Generation of Waves in Shallow Water, C. T. Kuo and Frederick L.W. Tang, 12CEC:71:179
Studies on the Shore Process and Wave Features of the Western Coast of Taiwan, Kenneth S. T. Chang and Frederick L. W. Tang, 12CEC:71:729

Chips

Leaching of Pollutants from Wood-Chip Slurry, Takashi Asano, Alan T. Towlerton and Robert L. Sanks, EE4:Aug 74:855:10707

Chlorides

Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489:9944

Water Quality Model of Chlorides in Great Lakes, Donald J. O'Connor and John A. Mueller, SA4:Aug 70:955:7470

Chlorination

Alternate Methods of Wastewater Disinfection, John R. Elwood, Russell H. Isaac and Martin Weiss, NSCD:71:189

Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, NSCD:71:585

Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, SA5:Oct 71:647:8433

Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Philipps, NSCD:71:163

Disinfectant Chemistry and Biocidal Activities, J. Carrell Morris, NSCD:71:609

Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, NSCD:71:563

Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472

Engineering Considerations in Disinfection, Robert J. Baker, NSCD:71:683

Evaluation of Fecal Streptococci Tests for Chlorinated Secondary Sewage Effluents, Shundar Lin, EE2:Apr 74:253:10452

Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, NSCD:71:453

Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, SA1:Feb 72:11:8703

Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1:Feb 73:73:9557

Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727

Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821

Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, NSCD:71:137

Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430

Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Status of Methods for Halogen Determination (Br-Cl), Frank W. Sollo, Florence F. McGurk and Thurston E. Larson, NSCD:71:245

Chlorine

Alternate Methods of Wastewater Disinfection, John R. Elwood, Russell H. Isaac and Martin Weiss, NSCD:71:189

Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567

Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, NSCD:71:61

Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718

Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, NSCD:71:585

Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819

Disinfectant Chemistry and Biocidal Activities, J. Carrell Morris, NSCD:71:609

Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, NSCD:71:563

Engineering Considerations in Disinfection, Robert J. Baker, NSCD:71:683

Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, SA1:Feb 72:11:8703

Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81

Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590

Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, NSCD:71:515

Recent Advances in Determining Free Chlorine, George Patterson Whittle, NSCD:71:269

Salt and Virus Inactivation by Chlorine and High pH, Otis J. Sproul, Robert T. Thorup, David F. Wentworth and James S. Atwell, NSCD:71:385

Chromium

Optimization of the Ion Flotation of Dichromate, Robert B. Grieves, Gregory A. Ettelt, J. Thomas Schrodt and Dibakar Bhattacharyya, SA3:June 69:515:6610

Chute Spillways

Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452

Circular Footings

Contact Pressure of a Rigid Circular Foundation, Michael M.K. Ho and R. Lopes, SM3:May 69:791:6554

Dynamic Response of Circular Footings, Juan Enrique Luco and Russell A. Westmann, EM5:Oct 71:1381:8416

Circulation

The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727

The Federal Water Pollution Control Administration's Research Program on Ocean Pollution Control, Arnold B. Joseph, Fred D. Sisler, Donald J. Baumgartner and William A. Cawley, CEO-II:70:465

Hydrography of South Pass, Mississippi River, Lynn D. Wright, WW3:Aug 71:491:8290

Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345

Jet-Induced Circulation and Diffusion, Constantin Rouse, HY2:Mar 69:589:6445

Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519

Properties of Circulation in Stratified Lakes, James A. Liggett and Kwang K. Lee, HY1:Jan 71:15:7793

Salvaging Obsolete Autos: Systems Approach to Materials Recycling, CE:Apr 71:52

A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717

Cities

Current Mass-Transit Proposals: Answer to Our Commuter Problem?, Martin Wohl, CE:Dec 71:68

Debris Accumulation in Ancient and Modern Cities, Charles G. Gunnerson, EE3:June 73:229:9771

Towards New Towns for America-Slowly, George C. Bestor, UP1:Mar 73:47:9591

City Planning

Medal of Honor for City Planning -- Introduction, M. D. Morris, CEWAU:74:65

Prefabricated Highways, William Zuk, TE2:May 72:387:8895

William Fitts Ryan Award Citation, Thomas J. Colston, CEWAU:74:67

Civil Defense

Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134

Fourth Dimension for Urban Environment, Kenneth E. Sorensen, UP1:Apr 71:91:8064

Civil Engineering

Aerospace Technical Applications in Civil Engineering, David J. Barr, Chmn., TE4:Nov 74:959:10945

Air Pollution -- A Chest Physician's View, Anne Logan Davis, CEWAU:74:141

Alternate Approaches to the Education of Designers, John F. Oyler and Howard H. Hobson, CEE:Feb 74:1-390

Annual Address, Samuel S. Baxter, PP1:Oct 71:5:8466
Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43
Are Civil Engineers Socially Responsible?, David Crump, CE:Jan 72:59
Bachelor of Civil Engineering Technology at the University of North Carolina at Charlotte, Richard R. Phelps, CEE:Feb 74:1-254
Bidding is Against Client Interest, John T. Merrifield, PP3:July 73:389:9878
A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, Neal FitzSimons, Chmn., BDACE:72, 163pp.
BS-CET Program at Western Kentucky University, Boyce D. Tate, CEE:Feb 74:1-244
Can Continuing Education Teach Experience?, Arthur B. Gruver, CEE:Feb 74:1-825
Can Development and Ecology be Reconciled?, John E. Skinner, CE:Apr 71:67
C.E. Technology Minority Student Considerations, Philip L. Brach, CEE:Feb 74:1-296
Challenges for ASCE, Samuel S. Baxter, CE:July 71:67
Changes and Changed Conditions, Max E. Greenberg, CEWAU:74:177
The City and the Civil Engineer, Walter G. Heintzleman, PP1:Oct 71:55:8479
The Civil Engineer as a Sales Engineer, James M. Dockey, CE:Feb 71:78
Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72:645:9282
Civil Engineering and Public Affairs: New Direction in Undergraduate Education at Carnegie-Mellon University, Francis Clay McMichael, CEE:Feb 74:1-689
Civil Engineering: An Education for Professional Management, Boyd C. Paulson, Jr., CEE:Feb 74:1-580
Civil Engineering Curricula -- An Evaluation, H. Gordon Larew and John P. Bradshaw, CEE:Feb 74:1-406
Civil Engineering Education - A Mechanism for Interaction with Urban Practice (Discussion), Albert A. Grant, CEE:Feb 74:2-325
Civil Engineering Education and the Bureau of Reclamation, Gilbert G. Stamm, CEE:Feb 74:1-347
Civil Engineering Education - Goals and Policy: The Practicing Engineer's Viewpoint, Thomas C. Kavanagh, CEE:Feb 74:2-262
Civil Engineering Education in Transition: A Case Study, Ralph R. Rumer, Jr. and George C. Lee, CEE:Feb 74:1-24
Civil Engineering Education Requirements for an Electric Utility, Bruce R. Laverty and Jim O. Bass, CEE:Feb 74:1-400
Civil Engineering Faculty Profile (Discussion), James H. Schaub and D. A. Eckler, CEE:Feb 74:2-298
Civil Engineering: Flexible or Rigid Program, Howard I. Epstein, CEE:Feb 74:1-16
Civil Engineering Graduate Education in Evolution, John D. Haltiwanger, William J. Hall and Nathan M. Newmark, CEE:Feb 74:1-149
Civil Engineering in Health Care Systems, Tung Au, PP1:Oct 71:87:8470
Civil Engineering Practice - Overview and Current Trends, Charles W. Yoder, CEE:Feb 74:2-11
Civil Engineering's Role in Construction Education, Henry W. Parker, CEE:Feb 74:1-573
The Civil Engineer in the Food Industry, George E. Weatherford, CE:Aug 74:91
The Civil Engineer in the Multidisciplinary Design Team, David A. Novick, PP2:Apr 72:221:8826
The Civil Engineer in Urban Affairs and Planning, Sigurd Grava, CEE:Feb 74:1-173
The Civil Engineer: Quiet Man or Spokesman?, Hadley Johnson, Jr., PP1:Oct 71:51:8467
Committee Rap Sessions (Panel Discussions), CEE:Feb 74:2-254
A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489
Computer Use in Civil Engineering, Robert L. Schiffman and E. Rex Krueger, PP2:Apr 72:251:8834
Conducting Civil Engineering Continuing Education, Peter C. Madsen and King S. Luk, CEE:Feb 74:1-900
Considering Social Value in Engineering Projects, Charles G. Sudduth, PP1:Jan 72:43:8655
Construction as an Option within Civil Engineering, George E. Mason and Russel C. Jones, CEE:Feb 74:1-620
Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538
Construction Education at North Carolina State, George H. Blessis, CEE:Feb 74:1-613
Construction Education in Civil Engineering, Herbert W. Busching and J. Pat Cecil, CEE:Feb 74:1-607
Construction Engineering and Management (Discussion), Ben C. Gerwick, Jr., CEE:Feb 74:2-310
A Consulting Firm in Civil Engineering Education: A History of Four Years of Participation, Eben Vey and David A. Novick, CEE:Feb 74:1-927
Continuing Education and Broadening the Program (Discussion), William A. Conwell, CEE:Feb 74:2-338
Continuing Education for Civil Engineers - The UCLA-ASCE Professional Certificates, Alfred C. Ingersoll, CEE:Feb 74:1-841
Continuing Education in the Strategic Air Command, William A. Orth, Colonel, CEE:Feb 74:1-874
Continuing Education of Construction Management Personnel, Kenneth R. Ware, CEE:Feb 74:1-881
Continuing the Enchancement of Mankind's Welfare: A Civil Engineer's Responsibility for Professional Development and Maintenance of Competence, C. Allen Wortley, CEE:Feb 74:1-808
Current Practices in Drafting, Reproduction and Storage of Engineering Drawings, Eugene E. Dallaire, CE:Jan 74:73
Currents in Civil Engineering Education, Russel C. Jones, CEE:Feb 74:2-90
Current Status of Continuing Education, C. Allen Wortley, CEE:Feb 74:2-66
Design and Construction Features — Greenwood Unit One, Satyen M. Guha-Biswas, EPCE:Aug 74:279
Development of a Curriculum in Construction Engineering, Thomas C. Jellinger, CEE:Feb 74:1-654
Development of a Planning Program: A Case Study, William K. Johnson, Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71
Development of a Professional Construction Manager, Rolland M. Wilkening, CEE:Feb 74:1-367
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
Educating Public Works Engineers and Administrators, Donald C. Stone, CEE:Feb 74:1-679
Educational Needs for Engineering Practice and Recommended Follow-Up Program (Discussion), George J. Kral, CEE:Feb 74:2-345
Education and Training Viewed by a Younger Member, James F. Stahl, CWFE:Mar 71:261
Education for Leadership, C. Maxwell Stanley, CEE:Feb 74:1-312
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
The Engineer and Pollution Control - Some Objections to the Simplistic Approach, Samuel C. Florman, PP3:July 72:383:9043
Engineer Firms Face Unionization, Larry N. Spiller, CE:Apr 71:49
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Engineering Education for Public Participation, John W.N. Fead, CEE:Feb 74:1-525

Engineering for the Lunar Environnent, R. B. Carpenter, Jr., J. M. Mansfield and D. J. Stone, ESE:Apr 70:163

Engineering Manpower: Supply and Demand Relationships, Robert D. Kersten and John Paul Hartman, CEE:Feb 74:1-479

Engineering Technology at Florida International (Bachelor's Programs for a Major Urban Region), Robert W. Ellis, Jr., CEE:Feb 74:1-264

Engineering 1972-A Review, Thomas C. Kavanagh, PP3:July 73:287:9889

The Engineer's Role, Frederick J. Clarke, PP2:Apr 72:163:8825

Environmental Engineering Education -- An Employer's View, John E. Ball and John B. Malouf, CEE:Feb 74:1-426

Environmental Management Broadening the Base of Civil Engineering Education, William H. Matthews, CEE:Feb 74:1-518

Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1:Jan 72:33:8657

The Ethics of Teacher Evaluation, Chester Lee Allen, PP1:Oct 71:153:8465

Experience in Teaching Engineering Judgment by Case Histories in Foundation Engineering, Ralph B. Peck and Herbert O. Ireland, CEE:Feb 74:1-187

Feedback from Engineering Practitioners - Summary and Review, Joseph S. Ward, CEE:Feb 74:2-79

Financial Consideration of Practicing Engineers in the Classroom (Discussion), Evan H. Curtis, CEE:Feb 74:2-333

A Flexible Civil Engineering Curriculum, James P. Olson and Joseph C. Oppenlander, CEE:Feb 74:1-48

Forty Years of ASCE and "Civil Engineering", Mary E. Jessup, CE:Oct 70:59

Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563:9287

Graduate Civil Engineering Programs, Thomas E. Stelson, CEE:Feb 74:2-36

Guidance and Motivational Programs, Stephen L. Tuttle, Bob Younger, Jack Pitts and John Moran, CEE:Feb 74:1-996

Handsome Civil Engineering Structures, CE:May 70:56

How Industry Has Accepted the Oregon State University C.E.C. Construction Program Graduates, Harold D. Pritchett and William T. Peckham, CEE:Feb 74:1-670

Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913

Improved Monitoring of Civil Engineering Education - The Need and a Method (Discussion), Richard G. Coulter, CEE:Feb 74:2-329

Industry Continuing Engineering Education, Vincent J. Vitagliano, CEE:Feb 74:1-868

Integrating Construction with Engineering, Ben C. Gerwick, Jr., CEE:Feb 74:1-598

Interchange, Ethics, Accreditation, Needs of Practice (Panel Discussions), CEE:Feb 74:2-243

An Interdisciplinary Graduate Program, Robert Burnham, Volker Hartkopf, Edward M. Krokosky and Irving J. Oppenheim, CEE:Feb 74:1-179

Is Professional Ethics Dead?, CE:Nov 74:71

Is Technology Relevant?, Michael C. Kavanaugh, CE:Oct 70:44

Junior-Senior Bachelor of Technology Programs, Joseph H. Moore, CEE:Feb 74:1-221

Land Surveying and Civil Engineering -- Professionally Related, But Different, Kenneth S. Curtis and John G. McEntyre, CEE:Feb 74:1-134

The Last Word, Arthur J. Fox, Jr., CEE:Feb 74:2-285

Legal Aspects of Architecture, Engineering, and Construction Process, by Justin Sweet (Book Review), Joseph Kaming, CE:Mar 71:10

Legislative Involvement, Stephen M. Olko, PP4:Oct 72:491:9278

Making Civil Engineering Relevant I, Arthur J. Fox, Jr., CEE:Feb 74:1-1

Making Civil Engineering Relevant II - Conference Keynote, Arthur J. Fox, Jr., CEE:Feb 74:2-3

Making Engineering Curricula More Relevant, Mario G. Salvadori, CE:June 74:70

The Making of a Professional Civil Engineer, Gerard Roberto, Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433

The Making of a Professional Engineer - A Teamwork Approach (Discussion), William A. Hunt and Leland J. Walker, CEE:Feb 74:2-322

Management Degree Program for Employed Public Works Directors, A. Morgan Johnson, CEE:Feb 74:1-728

Management Education for Civil Engineers, Stephens W. Nunnally and William H. Wisely, CEE:Feb 74:1-696

Management in the Construction Industry --A New M.I.T. Program, William A. Litle, CEE:Feb 74:1-589

Manual 33- Cost Control and Accounting for Civil Engineers, Task Committee on Revision of Manual 33, Committee on Standards of Practice, Professional Practice Division of ASCE, Nomer Gray, Chairman, 1971, 34 pp.

Master's Degree in Civil Engineering / Facilities: A Program Offered at the Air Force Institute of Technology School of Engineering for Air Force Civil Engineers, Stewart W. Johnson, CEE:Feb 74:1-157

Minorities In Engineering - How Does Your Company Stack Up?, Montrust Q. Burrell, EI1:Jan 74:41:10271

Modern Civil-Environmental Engineering Curriculum, Herman A.J. Kuhn and William D. Berg, CEE:Feb 74:1-104

NACE Paper: County Engineering Career Demands, David L. Weir, CEE:Feb 74:1-354

Needs of Engineering Education for the Future -- View of a Conuslting Engineer, William W. Moore, CEE:Feb 74:1-327

Neglected Responsibilities of Undergraduate Education, John P. Klus, CEE:Feb 74:1-566

A New Civil Engineering Curriculum at Purdue, Gerald A. Leonards, Martin J. Gutzwiller and Robert H. Lee, CEE:Feb 74:1-39

New Interdisciplinary Program in Construction Management at WPI, A. Fattah Chalabi, CEE:Feb 74:1-645

Noise Control and Civil Engineering, Edward M. Krokosky and Clive L. Dym, CE:May 74:45

Observations on Civil Engineering Executive/Management Needs as a Part of Civil Engineering Education, Walter G. Heintzleman, CEE:Feb 74:1-361

Option Packages for Undergraduate Technical Depth, Russel C. Jones, CEE:Feb 74:1-32

Overview of the Health Care Services Industry, Robert A. Tschetter, PP4:Oct 72:655:9283

Partners as First-Class Engineering Technicians, James C. Farley and Noel L. Caldwell, CEE:Feb 74:1-286

Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468

Practioner-Oriented Post-Baccalaureate Education, Ralph E. Fadum, CEE:Feb 74:1-794

Professional Approach to Marketing Engineering Services, Carl E. Nelson, CEWAU:74:131

The "Professional" Faculty, Waldron Murrill McLellon and Robert D. Kersten, CEE:Feb 74:1-800

A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552

The Professional School - A Sleeping Giant, Grover L. Rogers and James H. Schaub, CEE:Feb 74:1-752

Professional Schools for Civil Engineering Education, James H. Schaub, CEE:Feb 74:1-735

The Programmable Calculator: A Place In Civil Engineering, Eugene E. Dallaire, CE:Feb 72:70

Project Planning, John M. Shields, SU1:July 72:61:9041

Promising and Expanding Programs (Panel Discussions), CEE:Feb 74:2-225

Promising Trends in Education in Public Works Engineering, Herbert A. Goetsch, CEE:Feb 74:2-114

Proposed New ASCE Policy on Engineering Education, by Ad Hoc Subcommittee for Revision of Policy C-37, William W. Moore, Chmn., John L. Rumpf, Leo W. Ruth, James H. Schaub and Ralph H. Wallace, CEE:Feb 74:1-905

Prospectives in Bioengineering Research for Civil Engineers, George Bugliarello, PP1:Oct 71:83:8461

Public Works Engineering and Administration- The Pittsburgh Experience, George M. Tomsho and Joel I. Abrams, CEE:Feb 74:1-723

Recommendations for Urban Health, Everett MacLeman, CEWAU:74:158

Recycling Civil Engineering Education, William K. Johnson, CE:Oct 71:101

The Reminiscences of John B. Jervis, Engineer of the Old Croton, Edited by Neil Fitzsimons (Book Review), William D. French, CE:July 72:8

"Report of the Mohawk-Hudson Area Survey" ed. by R. M. Vogel (Book Review), Emory L. Kemp, CE: May 74:31

Reproducing And Storing Engineering Drawings, Eugene E. Dallaire, CE:Mar 74:45

Research Needs in the Civil Engineering Aspects of Power, E. Roy Tinney, Chmn., PO2:Feb 70:187:7073

Responsibilities of Practicing Engineers and Technicians and Subprofessionals (Discussion), Lester A. Heer, CEE:Feb 74:2-342

The Role of the Civil Engineer in Statewide Health Planning, William H. Wisely, PP4:Oct 72:669:9284

A Sabbatical Leave with a Consulting Firm, Peter George Hoadley, CEE:Feb 74:1-950

Socio-Technical Programs in Civil Engineering at O.S.U., Michael B. Godfrey and Elbert E. Whitlatch, Jr., CEE:Feb 74:1-713

Some Experience with Offering Professional Education in Urban Transportation, Lester A. Hoel, CEE:Feb 74:1-850

Sources of Computer Programs, Kneeland A. Godfrey, Jr., CE:June 74:51

State of the Society, Oscar S. Bray, PP4:Oct 72:481:9291

Straddling the Picket Fence, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, CEE:Feb 74:1-6

Student Development, Guidance and Minorities in Civil Engineering, Alvin Newman, CEE:Feb 74:2-191

A Success Story - Kansas City Engineering Evening Graduate Program (Discussion), Melford E. Monsees, CEE:Feb 74:2-320

Systems Approach and the Civil Engineer, Kenneth W. Heathington and R. Brian Bonton, PP1:Oct 71:65:8457

Teaching Design with Practicing Engineers (Five Years of Experience), John J. Cassidy, CEE:Feb 74:1-937

Technical Information Retrieval, Harold W. Conner and J. Nieves, CE:Nov 69:47

Technician and Technologist Education in 1974, John L. Rumpf, CEE:Feb 74:1-210

Technician Manpower Needs in Florida, Richard D. Ray, CEE:Feb 74:1-279

Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512

Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949

Trends in Engineering Education (Discussion), Richard M. Collins, CEE:Feb 74:2-336

Undergraduate Civil Engineering Programs, David A. VanHorn, CEE:Feb 74:2-25

Urban Systems Planning: Implications for Civil Engineering Education, Ata M. Khan, CEE:Feb 74:1-164

Water Resources Education in Civil Engineering, Vincent T. Ricca and Robert C. Stiefel, CEE:Feb 74:1-96

Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040

The Water Studies Program at Stanford University, Perry L. McCarty, CEE:Feb 74:1-193

What Should Civil Engineering Education Accomplish?, Elmer K. Timby, CEE:Feb 74:1-302

Women in Civil Engineering Education, Judith S. Liebman, CEE:Feb 74:1-993

WPI Plan -- From Concept to Reality, Armand J. Silva and William R. Grogan, CEE:Feb 74:1-64

WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121

Civil Engineers

Action in Public Affairs -- A Way of Life, James W. McPhillips, Brian R. Hogan, Eugene R. McMaster and David A. Novick, PP2:Apr 72:181:8797

Alternate Approaches to the Education of Designers, John F. Oyler and Howard H. Hobson, CEE:Feb 74:1-390

Annual Address, Samuel S. Baxter, PP1:Oct 71:5:8466

Architects and Planners — Introduction, M. D. Morris, CEWAU:74:209

Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43

Are Civil Engineers Socially Responsible?, David Crump, CE:Jan 72:59

Are More Women Needed in Civil Engineering, Norman J. Fulco and Eugene E. Dallaire, CE:May 73:54

Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102

ASCE Salary Survey, Charles J. Stevens, Chmn., PP3:July 72:393:9025

Assuring a Desirable Quality of Life, CE:Sept 71:73

Assuring a Desirable Quality of Life, PWS:Nov 72:237

A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, Neal FitzSimons, Chmn., BDACE:72, 163pp.

A Black Civil Engineer Looks at His Profession, Frederick E. Jordan, CE:Sept 69:93

Booby Traps for Young Engineers on Construction, Edward A. Merrill, CO2:Nov 71:305:8541

Brooklyn Bridge -- Introduction, M. D. Morris, CEWAU:74:25

California ASCE Sections Prepare Employment Guidelines, George S. Korbay and Ronald P. Gallagher, CE:Jan 72:52

Can Decision-Making Be Taught?, John B. Scalzi, CE:July 70:37

Career Guidance, Ross M. Lanius, Jr., EI2:Apr 74:111:10465

Challenges for ASCE, Samuel S. Baxter, CE:July 71:67

The Civil Engineer and Elective Office, Brian J. Lewis, CE:Apr 74:65

The Civil Engineer in Aerospace, Task Committee on Civil Engineering in Space of the Committee on Space Facilities of the Aero-Space Transport Division, Stewart W. Johnson, Chmn., TE2:May 71:247:8124

The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880

Civil Engineer in Federal Government, Nicholas J. Oganovic, PP1:Sept 70:9:7546

Civil Engineering and Public Affairs: New Direction in Undergraduate Education at Carnegie-Mellon University, Francis Clay McMichael, CEE:Feb 74:1-689

Civil Engineering and Urban Systems, George L. Peterson, Robert S. Gemmell and Richard D. Worrall, UP1:Apr 69:1:6501

Civil Engineering Curricula -- An Evaluation, H. Gordon Larew and John P. Bradshaw, CEE:Feb 74:1-406

Civil Engineering Education for the 1970's, Edward G. Nawy, CE:Aug 71:70

Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664

Civil Engineering Education in Transition: A Case Study, Ralph R. Rumer, Jr. and George C. Lee, CEE:Feb 74:1-24

Civil Engineering Faculties and the Space Program, James K. Mitchell, ESE:Apr 70:151
Civil Engineering History: An Appraisal, Neal FitzSimons, PP3:July 73:327:9875
Civil Engineering Management in Public Practice, Samuel S. Baxter, PP1:July 69:23:6662
Civil Engineering's Role in Construction Education, Henry W. Parker, CEE:Feb 74:1-573
Civil Engineering Today: A Profession in Crisis-Part I, David Carsen, CE:Jan 70:48
Civil Engineering Today: A Profession in Crisis-Part II, David Carsen, CE:Feb 70:51
The Civil Engineer In Research, Johannes J. DeVries, CE:Jan 73:92
The Civil Engineer in the Concept Team, William H. Wisely, CE:Dec 71:37
The Civil Engineer in the Food Industry, George E. Weatherford, CE:Aug 74:91
The Civil Engineer in the Multidisciplinary Design Team, David A. Novick, PP2:Apr 72:221:8826
The Civil Engineer in Urban Affairs and Planning, Sigurd Grava, CEE:Feb 74:1-173
The Civil Engineer: Quiet Man or Spokesman?, Hadley Johnson, Jr., PP1:Oct 71:51:8467
Civil Engineers at Government Aerospace Centers, E. J. Kramer, ESE:Apr 70:145
The Civil Engineer's Image, Edward H. Kiessling, CEWAU:74:273
Civil Engineers in Aerospace Industry, Robert D. Johnson, ESE:Apr 70:133
Civil Engineers in the Aerospace Program, Stewart W. Johnson, ESE:Apr 70:127
Civil Engineers Need Construction Education, Walter L. Meyer and Robert I. Carr, CEE:Feb 74:1-545
The Civil Engineers Role in Environmental Development, Abel Wolman, CE:Oct 70:42
The Civil Engineer's Role in the Power Industry, Charles F. Beck, EPCE:Aug 74:1
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
Commentary, Warren Friedman, CEWAU:74:117
Commentary, Ernest N. Linder, CEWAU:74:262
Commentary, Paul A. Larkin, CEWAU:74:268
Communications -- Introduction, M. D. Morris, CEWAU:74:95
A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489
Construction as an Option within Civil Engineering, George E. Mason and Russel C. Jones, CEE:Feb 74:1-620
Continuing Education for Civil Engineers - The UCLA-ASCE Professional Certificates, Alfred C. Ingersoll, CEE:Feb 74:1-841
Continuing Education in the Strategic Air Command, William A. Orth, Colonel, CEE:Feb 74:1-874
Continuing Education of Construction Management Personnel, Kenneth R. Ware, CEE:Feb 74:1-881
Corps of Engineers Promotes Continuing Education, Melford E. Monsees, CE:Jan 72:63
The Creative Force, Will Oursler, CEWAU:74:10
Creativity and the Anti-Technologists, Samuel C. Florman, CEWAU:74:18
Creativity and the Civil Engineer, Lucius R. Boley, CEWAU:74:6
Creativity, The Young Engineer's Viewpoint, David R. Antes, CEWAU:74:22
Critical Need for Civil Engineering Technicians, Ellis Vieser, CE:Aug 69:61
Delays and Interferences, Albert Foreman, CEWAU:74:163
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887
A Draft ASCE Statement on the Role of the Civil Engineer in the Planning and Development of New Communities in the United States Urbanization and Settlement, CE:June 73:62
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442
Education and Training Viewed by a Younger Member, James F. Stahl, CWFE:Mar 71:261
Education for Leadership, C. Maxwell Stanley, CEE:Feb 74:1-312
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
EHV-DC System Ties Los Angeles to Northwest, William M. Mahoney, PO1:Jan 71:181:7851
The Engineer and Ethical Advertising, Milton Riback, CEWAU:74:99
The Engineer and Pollution Control - Some Objections to the Simplistic Approach, Samuel C. Florman, PP3:July 72:383:9043
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Engineering and Today's Social Problems, Donald C. Slichter, CE:Mar 72:64
Engineering Education for Public Participation, John W.N. Fead, CEE:Feb 74:1-525
Engineering Manpower: Supply and Demand Relationships, Robert D. Kersten and John Paul Hartman, CEE:Feb 74:1-479
Engineering Policies, Politics, and Pragmatism, Robert F. Baker, TE1:Feb 74:121:10320
Engineering Registration - Today and Tomorrow, Rex A. Tynes, PP4:Oct 73:457:10079
The Engineer's Role, Frederick J. Clarke, PP2:Apr 72:163:8825
Engineers Salaries: What California Is Doing, Schaefer J. Dixon and L. Lawrence Lewis, CE:June 70:56
Engineer versus Computer Strategy of Persuasion, Earl Rogers, PP1:July 69:9:6654
Exporting Expertise -- Introduction, M. D. Morris, CEWAU:74:225
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Guidance and Motivational Programs, Stephen L. Tuttle, Bob Younger, Jack Pitts and John Moran, CEE:Feb 74:1-996
A Hard Look at Civil Engineering Salaries, William H. Wisely, CE:May 70:33
Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913
Instruction in Urban Planning for Civil Engineers, Peter S. Parsonson, UP1:Mar 70:23:7127
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
The Law -- The Letter and the Spirit -- Introduction, M. D. Morris, CEWAU:74:161
Legislative Involvement, Stephen M. Olko, PP4:Oct 72:491:9278
Licensure of Planners and Its Effect on Civil Engineers, Kenneth P. Norrie, PP1:Oct 71:161:8463
Making Engineering Curricula More Relevant, Mario G. Salvadori, CE:June 74:70
The Making of a "Pro"—A Faculty Viewpoint, Dan H. Pletta, EI3:July 74:217:10645
The Making of a Professional Civil Engineer, Gerard Roberto, Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433
Management Education for Civil Engineers, Stephens W. Nunnally and William H. Wisely, CEE:Feb 74:1-696
Manned Space Station: Civil Engineer's Role, Stewart W. Johnson, CE:Oct 71:88
Manual 33- Cost Control and Accounting for Civil Engineers, Task Committee on Revision of Manual 33, Committee on Standards of Practice, Professional Practice Division of ASCE, Nomer Gray, Chairman, 1971, 34 pp.
The ME(Civil) Program at Cornell University - Part 1 - Program Development, Dwight A. Sangrey and George Winter, CEE:Feb 74:1-779
The ME(Civil) Program at Cornell University - Part II - Program Implementation, Richard N. White, Vaughn C. Behn, Gerard F. Fox and Arthur Adams, CEE:Feb 74:1-787
Medicine -- Introduction, M. D. Morris, CEWAU:74:135

The Military Draft: Educational and Occupational Deferments for Engineers, Betty M. Vetter, CE: May 69:67
Multi-Discipline Case Study Approach to Education in Project Planning, William S. Gaither and Dennis R. Neuzil, CE:Dec 70:35
Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502
NACE Paper: County Engineering Career Demands, David L. Weir, CEE:Feb 74:1-354
New Interdisciplinary Program in Construction Management at WPI, A. Fattah Chalabi, CEE:Feb 74:1-645
Noise Control and Civil Engineering, Edward M. Krokosky and Clive L. Dym, CE:May 74:45
Opening Remarks, Gerald Palevsky, CEWAU:74:138
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, CEWAU:74:227
Opportunities for Civil Engineers in Planning, Alan M. Voorhees, CE:Sept 69:96
Overseas Work and the Smaller Consulting Engineering Firm, Stephen M. Olko, CEWAU:74: 252
Overview of the Health Care Services Industry, Robert A. Tschetter, PP4:Oct 72:655:9283
Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106
Partners as First-Class Engineering Technicians, James C. Farley and Noel L. Caldwell, CEE:Feb 74:1-286
Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173
Position Paper on Civil Engineering Education, by the ASCE Committee on Engineering Education, Merit P. White, Chmn., PP1:July 69:29:6671
Professional Athletics -- Introduction, M. D. Morris, CEWAU:74:73
Professional Development for Consulting Engineers, Gerald L. Baker, PP1:Jan 72:49:8662
The "Professional" Faculty, Waldron Murrill McLellon and Robert D. Kersten, CEE:Feb 74:1-800
A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509
Public Issues and ASCE, CE:June 70:59
Public Policy: Who Speaks for the Engineer, Augustine J. Fredrich, EI1:Jan 74:1:10266
Public Relations and Public Service Papers in the Los Angeles Section, Irvan F. Mendenhall, CE:June 69: 47
Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517
Putting Water Resources Research into Practice, Fred S. Singer, CE:June 70:47
Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884
The Role of the Civil Engineer in Statewide Health Planning, William H. Wisely, PP4:Oct 72:669:9284
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
Teaching Design with Practicing Engineers (Five Years of Experience), John J. Cassidy, CEE:Feb 74: 1-937
Transformation of Plans into Actions, Johannes W Kurz, UP2:Sept 73:183:10029
Transportation-Role for Civils, Wilbur S. Smith, TE1: Feb 69:111:6414
Water Resources Education in Civil Engineering, Vincent T. Ricca and Robert C. Stiefel, CEE:Feb 74:1-96
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52
Why Man Creates -- Introduction, M. D. Morris, CEWAU:74:3
A Word With the Executive Director About....The Civil Engineer and the Conservationist, William H. Wisely, CE:Feb 70:37
A Word With The Executive Director About. . . The Quality of Personal Success, William H. Wisely, CE:June 71:37
WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121
1969 ASCE Salary Survey, W. W. Ewell, Chmn., PP1:Sept 70:111:7500
1973 Salary Survey, by the Committee on Employment Conditions of the Department of Professional Activities, Edward A. Bryant, Chmn., EI2:Apr 74:127:10450
20th Century Renaissance, Donald N. Anderson, PP3:July 73:373:9886

Cladding
Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675
Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653

Claims (Contracts)
Changed Soil and Rock Conditions in Construction, George F. Sowers, CO2:Nov 71:257:8509

Clarification
Tube Clarification Process, Operating Experiences, Gordon L. Culp, Kou-ying Hsiung and Walter R. Conley, SA5:Oct 69:829:6823

Classifications
Classification of Argillaceous Soils and Rocks, Norbert R. Morgenstern and Kurt D. Eigenbrod, GT10:Oct 74:1137:10885
Sedimentation Engineering, Chapter II: Sediment Transportation Mechanics: Q. Genetic Classification of Valley Sediment Deposits, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:43: 7815
Systematization of Flood Control Measures, Vujica Yevjevich, HY11:Nov 74:1537:10943
Theoretical Analysis of Interchange Composition, Ken-ichi Takebe, TE:Aug 69:483:6737

Clay (Material)
Behavior of Bored Piles in Beaumont Clay, Michael W. O'Neill and Lymon C. Reese, SM2:Feb 72:195: 8741
Effects of Loading Method on Triaxial Test Results, Raymond Lundgren, James K. Mitchell and James H. Wilson, SM2:Mar 68:407:5844
Stress-Controlled Apparatus for Triaxial Testing, Adel S. Saada, SM6:Nov 67:61:5555
Time Effects on Dynamic Shear Modulus of Clays, William F. Marcuson, III and Harvey E. Wahls, SM12:Dec 72:1359:9442
Vibration Modulus of Normally Consolidated Clay, Bobby O. Hardin and William L. Black, SM2:Mar 68:353:5833

Clays
Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72: 327:8827
Aging Effects on Swell Potential of Compacted Clays, Gabriel Kassiff and Raphael Baker, SM3: Mar 71:529:7951
Analysis of Undrained Behavior of Loads on Clay, Richard M. Simon, John T. Christian and Charles C. Ladd, GT74:June 74:51
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
Behavior of Compacted Soil in Tension, Abbanki V. Gopala Krishnayya, Zdenek Eisenstein and Norbert R. Morgenstern, GT9:Sept 74:1051:10828
Bentonite Sealing Methods Compared in the Field, Myron B. Rollins and Anthony S. Dylla, IR2:June 70:193:7379
Causes of Clay Sensitivity, James K. Mitchell and William N. Houston, SM3:May 69:845:6568

Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678

Classification of Argillaceous Soils and Rocks, Norbert R. Morgenstern and Kurt D. Eigenbrod, GT10:Oct 74:1137:10885

Clay Chemistry and Slope Stability, James K. Mitchell and Richard J. Woodward, TN: SM10:Oct 73:905:10042

Clay Slurry Sorption of Carrier-Free Radiocations, William A. Goldsmith and W. Emmett Bolch, SA5: Oct 70:1115:7611

Coefficient of Secondary Compression, Gholamreza Mesri, SM1:Jan 73:123:9515

Compared Experiences with the S.P.T. (In Spanish), C. M. Arce, F. L. Torres and H. J. Vercelli, 4PCSM:71:II95

Consolidation-Time Relationship for Layered Clays, Yang H. Huang, TN: SM1:Jan 70:371:7022

Cyclic Stress-Strain Characteristics of Clay, Gerald R. Thiers and H. Bolton Seed, SM2:Mar 68:555: 5871

Deformation and Stability of Viscoelastic Soil Media, Cetin Soydemir and Werner E. Schmid, SM6:Nov 70:2081:7708

Design of the South Island for the Second Hampton Roads Crossing, David Rafaeli, PES:72:I-361

Diaphragm Wall Construction Techniques, Kevin L. Nash, CO4:Dec 74:605:11025

Dynamic Moduli and Damping Ratios For Soft Clay, William D. Kovacs, H. Bolton Seed and Clarence K. Chan, SM1:Jan 71:59:7813

Effective Stress Principle in Saturated Clay, H. E. Evans and Roland W. Lewis, SM2:Mar 70:671: 7183

Effect of Sampling on Compressibility of Soft Clay, Iraj Noorany and Iraj Poormand, TN: SM12:Dec 73:1184:10189

Effect of Seismic Loading on Undrained Clay Creep, Thomas L. Holzer and Kaare Hoeg, TN: SM1:Jan 73:283:9505

Electrical Dispersion in Relation to Soil Structure, James K. Mitchell and Kandiah Arulanandan, SM2: Mar 68:447:5853

Embankments on Soft Ground, Laurits Bjerrum, PES: 73:II-1

Embankments on Soft Ground -- Reporter's Summary, William H. Perloff, PES:73:III-49

Empirical Damping Constants for Sands and Clays, Harry M. Coyle and Gary C. Gibson, SM3:May 70:949:7296

Engineering Behavior and Structure of Compacted Clay, Laing Barden and Geoffrey R. Sides, SM4: July 70:1171:7397

Evaluation of Pore Pressures Beneath and Embankment, David J. D'Appolonia, T. William Lambe and Harry G. Poulos, SM6:June 71:881: 8213

Extended Use of Oedometer Test Data, Arnoldo J.L. Bolognesi, TN: GT9:Sept 74:1075:10774

Extension Tests on Soft Clays Without Membranes, T. S. Ramanatha Iyer, TN: SM6:June 73:486:9815

Failure of a Test Embankment on Sensitive Clay, Oscar Dascal, J. P. Tournier, Francois A. Tavenas and Pierre La Rochelle, PES:72:I-129

Fluid-Dynamic Consideration Of Bottom Materials, Hormoz Pazwash and James M. Robertson, CEO-II:70:1135

Foundation Design for Buildings on Soft Clay in Earthquake Zone, James E. Roberts and Edward Margason, CE:Feb 74:56

Foundation Failure of the Vankleek Hill Tower Silo, Michael Bozozuk, PES:72:I-885

General Stress-Strain-Time Function for Soils, Awtar Singh and James K. Mitchell, SM1:Jan 68:21:5728

Geotechnical Considerations Of Lateral Stresses, David J. Henkel, LS:70:1

The Gloucester Test Fill, Michael Bozozuk and Gerald A. Leonards, PES:72:I-299

Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653

In-situ Shear Test for Rock Fills, Surendra P. Jain and Ramesh C. Gupta, GT9:Sept 74:1031:10823

Interceptor Drains in Heavy Clay Soils, Malcolm L. Steinberg, TE1:Feb 70:1:7066

Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360

Load Tests on Small Foundations in Soft Clay, Edward W. Brand, Chai Muktabhant and Anan Taechathummarak, PES:72:I-903

Mat Foundation and Preload Fill, VA Hospital Tampa, L. David Wheeless and George F. Sowers, PES:72:I-939

Mechanisms Controlling Compressibility of Clays, Roy E. Olson and Gholamreza Mesri, SM6:Nov 70:1863:7649

New Design Procedure for Stability of Soft Clays, Charles C. Ladd and Roger Foott, GT7:July 74: 763:10664

Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257

Performance of Embankments with Sand Drains on Sensitive Clay, Charles C. Ladd, Joseph J. Rixner and Douglas G. Gifford, PES:72:I-211

Performance Of Nonhomogeneous Clay Core, Remy L.A. de Jong, TN: SM8:Aug 72:855:9085

Performance of Two Mat Foundations on Boston Blue Clay, Salvatore V. DeSimone and James P. Gould, PES:72:I-953

Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589

Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59: 9844

Pore Pressures Under a Bund of Soft Fissured Clay, Za-Chieh Moh, Edward W. Brand and John D. Nelson, PES:72:I-243

Pore Sizes and Strength of Compacted Clay, Syed Ahmed, Charles William Lovell, Jr. and Sidney Diamond, GT4:Apr 74:407:10500

Prediction of Swelling Pressure of Clays, Amos Komornik and D. David, SM1:Jan 69:209:6358

Progressive Failure in Slopes of Overconsolidated Plastic Clay and Clay Shales, Laurits Bjerrum, SM5:Sept 67:1:5456

Property Interrelationships in Sensitive Clays, William N. Houston and James K. Mitchell, SM4: July 69:1037:6666

Research on Pipeline Flotation, Albert J. Bonar and Osman I. Ghazzaly, TE2:May 73:211:9718

Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023

Secondary Consolidation and Strength of a Clay, Chih-Kang P. Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510

Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, GT2:Feb 74: 139:10360

Settlement Analysis of Two Highway Embankments, Hon-Hsieh Su and Rogel W. Prysock, PES:72:I-465

Settlement Histories of Two Pile Supported Grain Silos, Melvin T. Davisson, PES:72:I-1155

Settlement of Buildings Constructed in Hackensack Meadows, Herbert L. Lobdell, SM4:July 70:1235: 7398

Settlements of Steel Tanks Founded on Clays (In Spanish), O. A. Varde, E. Nunez, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II179

Slopes in Stiff-Fissured Clays and Shales, James M. Duncan and Peter Dunlop, SM2:Mar 69:467:6449

Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273

Soil-Structure Interaction for Tall Buildings, John A. Focht, Jr., TB:73:Ia-11-1008

Some Load Transfer Data on Caissons in Hard Chicago Clay, Robert D. Holtz and Clyde N. Baker, Jr., PES:72:I-1223

Stability of Slurry Trench Cuts in Saturated Clay, George G. Meyerhof, PES:72:I-1451

Stability of Trenches Filled with Fluids, Kevin L. Nash, CO4:Dec 74:533:11006

Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225

Strength of Anisotropically Consolidated Compacted Clay, Kenneth L. Lee and Ross A. Morrison, SM6: Nov 70:2025:7703
Strength of Compacted Clay at High Pressure, Kenneth L. Lee and Steven C. Haley, SM6:Nov 68: 1303:6239
Strength of Compacted Clay at High Pressure, Kenneth L. Lee and Steven C. Haley, PISST:71:345
Stress Analysis of Contractive or Dilative Soil, Ian M. Smith and Stephen Kay, SM7:July 71:981:8263
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72: 13:8625
Stress-Strain Properties of Compacted Clays, David E. Daniel and Roy E. Olson, GT10:Oct 74:1123: 10869
Studies Of Seismic Response Of Clay Banku, William D. Kovacs, H. Bolton Seed and Izzat M. Idriss, SM2:Feb 71:441:7878
A Study of a Slide-prone Clay in Panama, Ralph R. W. Beene, 4PCSM:71:II129
Study of Clay Shale Slopes, Don C. Banks, RM13:72: 303
Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
Temperature Effect on Shear Wave Velocity in Clays, Donald G. Anderson and Frank E. Richart, Jr., TN: GT12:Dec 74:1316:10981
Test Embankment on Sensitive Clay, Charles C. Ladd, PES:72:I-101
Test Fills to Failure on the Soft Bangkok Clay, Ove Eide and Soren Holmberg, PES:72:I-159
Testing of Anisotropic Clay Soils, Adel S. Saada, TN: SM5:Sept 70:1847:7502
Theory of Consolidation for Clays, Gholamreza Mesri and Anoushiravan Rokhsar, GT8:Aug 74: 889:10740
Thixotropic Behavior of Compacted Clays, Donald H. Gray and Nouri A. Kashmeeri, SM1:Jan 71:193: 7857
Time Dependent Deformation of Normally Consolidated Clays and Peats, Laing Barden, SM1: Jan 69:1:6337
Tjipanundjang Dam in West Java, Indonesia, Laurence D. Wesley, GT5:May 74:503:10543
Triaxial and Plane Strain Behavior of Natural Clay, Yoginder P. Vaid and Richard G. Campanella, GT3:Mar 74:207:10421
Undrained Strength of Compacted Clay, Kenneth L. Lee and Robert J. Shubeck, SM1:Jan 71:219:7833
Wave Propagation in Confined Clay, Delon Hampton, Peter J. Huck and Ernest T. Selig, SM4: July 70:1391:7434
Yield and Failure of a Clay Under Triaxial Stresses, Raymond N. Yong and Edward McKyes, SM1:Jan 71:159:7790

Clay Soils
Acoustic Emissions In Medium Plasticity Clayey Silt, Robert M. Koerner and A. E. Lord, TN: SM1:Jan 72:161:8618
Drainage in Soils with Initial Gradient, Arun J. Valsangkar and Kanakatti Subramanya, IR2:June 72:309:8995
Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235

Cleaning
Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363
Concrete Dam Horizontal Joint Cleaning, Mac W. Lutz, RCCD:70:317
Restoring Subsurface Drain Performance, Luther B. Grass and Arnold J. MacKenzie, IR1:Mar 72:97: 8759

Cleaning Agents
The Cleaning of Gravel Beaches Polluted by Oil, E. H. Owens, CE13:72:III-2539
Natural Cleaning of Oil Polluted Seashores, Georges Drapeau, CE13:72:III-2547

Cleavage
An Analysis of the Pt. Pleasant Bridge Investigation, Charles F. Scheffey, STF:73:77

Climate
Measured And Predicted Evaporation At Pasaje, Ecuador, M. Riazul Hasan and Peris S. Jones, TN: IR3:Aug 72:511:9160

Climatic Data
Center Pivot Design Capacities in Eastern Colorado, Dale F. Heermann, Hollis H. Shull and Rome H. Mickelson, IR2:June 74:127:10588
Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72: 115
Norwegian Wave Climate Study, O. G. Houmb, B. Pedersen and P. Steinbakke, WAVES:Sept 74:25
Wind and Wave Climate Study in the North Sea, P. Kruseman, WAVES:Sept 74:1

Climatology
An Approach to an Off-Shore Wave Climatology, J. A.W. McCulloch, CE13:72:I-145
The Canadian Wave Climate Study - the Formative Year, Laurence Draper, 12CEC:71:1
Central California Evapotranspiration Frequencies, William O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941
Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
The Economic Evaluation of Irrigation in Humid Areas, Milton L. David and Gary M. Mennem, OIDS:72:443
Estimation of Deep Freezing Indices, George McCormick, TE3:Aug 71:401:8276
Weather Effects on Mason Productivity, Clayford T. Grimm and Norman K. Wagner, CO3:Sept 74:319: 10783

Closed Conduit Flow
Closed Conduit to Open Channel Stilling Basin, Gordon H. Flammer, Gaylord V. Skogerboe and Chi-Yuan Wei, IR1:Mar 70:1:7124

Cloud Modification
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Cloud Seeding
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72: 585:9413
Colorado Pilot Project: Design Hydrometeorology, Patrick A. Hurley, HY5:May 72:811:8901
Design of Cloud Seeding Program, Robert D. Elliott, IR2:June 69:275:6600
Ecological Consequences of Winter Cloud Seeding, Theodore W. Weaver and Arlin B. Super, IR3:Sept 73:387:9988
Modification of Convective Clouds in Northern Plains, Martin R. Schock and Arnett S. Dennis, OIDS:72:373
Orographic Cloud Seeding as a Water Resource, Charles F. Chappell, IRS:Sept 72:389
Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., IR3:Sept 73:215:9983
Priority Problems for Modifying Cumulus Precipitation, Lewis O. Grant, IR73:Aug 73:131
Role of the Public in Weather Modification, Adrian R. Chamberlain, IR73:Aug 73:171
User's View of Weather Modification, Donald Christy, IR73:Aug 73:165
Weather Modification for Use in the High Plains, Richard A. Schleusener and J. R. Miller, Jr., IR73: Aug 73:147
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Coagulation
Agglomerate Size Changes in Coagulation, Robert K. Ham and Russell F. Christman, SA3:June 69:481: 6605

Coagulation of Iron Oxide with Alum, Kamlesh K. Jain, Kun Li and Robert R. Rothfus, EE4:Aug 73:411:9945
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946

Coal
Barge-Coal Handling at A.S. King Generating Plant, Arthur V. Dienhart and Norris R. Fitch, PO3:June 70:299:7322
Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157
Constructing Non-Polluting Coal Ash Disposal Sites, Anthony M. Di Gioia, Jr., Robert P. Hayden and James E. Niece, CE:Dec 74:64
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263
Some Biological Impacts of Converting Powerplants from Oil to Coal, Paul F. Berg, EPCE:Aug 74:623

Coal Deposits
Stability Studies of a Footwall Slope in Layered Coal Deposit, C. O. Brawner, D. L. Pentz and J. C. Sharp, RM13:72:329

Coal Mines
Pennsylvania Erases Its Mining Scars, Alfred C. Ackenheil, CE:Oct 70:54
Stability Studies of a Footwall Slope in Layered Coal Deposit, C. O. Brawner, D. L. Pentz and J. C. Sharp, RM13:72:329
Status of Ground-Probing Radar and Some Recent Experience, John C. Cook, EFSE:Aug 74:175
Substation Over Old Mine Gets Firm Footing, James A. Collins, CE:Dec 73:41

Coal Mine Wastes
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69

Coal Mining
Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263
Recent Developments in Grouting for Deep Mines, Alfred C. Ackenheil and Murray T. Dougherty, SM1:Jan 70:251:7042
"Research and Applied Technology Symposium on Mine-Land Reclamation," by Bitumenious Coal Research, Inc. (Book Review), Richard D. Zande, CE:July 74:42
Subsurface Explorations in the Coal Mining Industry, Alphonse C. Van Besien, EFSE:Aug 74:383

Coarse Aggregates
Corps of Engineers Studies of Shotcrete, Thomas J. Reading, SUSS:July 73:263
Summary of Session II - Shotcrete Applications in the Americas, William A. Maples, SUSS:July 73:58
Summary of the Conference, Pierrepont E. Sperry, Jr., SUSS:July 73:441
Summary of Workshop A - Shotcrete Construction and Equipment, Harold E. Tibbs, SUSS:July 73:143

Coastal Capes
A New Approach to Coastal Defense, Richard Silvester and Siew-Koon Ho, CE:Sept 74:66

Coastal Engineering
Air Entrainment and Energy Dissipation in Breakers, Alfred Fuhrboter, 12CEC:71:391
Analysis of Hurricane Tides at Padre Island, Texas, Frank D. Masch, Robert J. Brandes, Floyd R. Hill and William A. White, 12CEC:71:2031
The Analysis of Wave Records, D. Lee Harris, 12CEC:71:85
Analytical Approach on Wave Overtopping on Levees, Hiroyoshi Shi-igai and Tsugio Kono, 12CEC:71:563
Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534
Artificial Beach Nourishment on the German North Sea Coast, Johann Kramer, CE13:72:II-1465
Asymptotic Solutions of Resonances in Harbors With Basins, Chih-Lan Su, WW3:Aug 73:375:9954
Beach Behavior, North Shore, Long Island Sound, Robert A. McCabe, WW4:Nov 70:781:7679
Beaches Produced by Waves of Low Phase Difference, Patrick H. Kemp and David Plinston, HY5:Sept 68:1183:6100
Beach Nourishment at Virginia Beach, Virginia, James W. Bunch, 12CEC:71:967
Behavior of a Slender Body in Shallow-water Waves, Hsiang Wang and Li-San Hwang, CEC:71:1723
Bottom Boundary Shear Stresses on a Model Beach, P. G. Teleki and Melvin W. Anderson, 12CEC:71:269
Braking Wave Setup and Decay on Gentle Slopes, Li-San Hwang and David Divoky, 12CEC:71:377
Breakwater and Quay Wall by Horizontal Plates, Takeshi Ijima, Shigeo Ozaki, Yasuhiko Eguchi and Akira Kobayashi, 12CEC:71:1537
Calculated Sand Fills and Groin Systems, John Simpson Hale, CE13:72:II-1385
The Canadian Wave Climate Study - the Formative Year, Laurence Draper, 12CEC:71:1
CERC Field Wave Gaging Program, Harold G. Peacock, WAVES:Sept 74:170
Channel Friction and Slope Effects on Harbor Resonance, Richard Paul Shaw and Chi-Kwong Lai, WW3:Aug 74:205:10706
Characteristics of Shingle Beaches: The Solution to Some Practical Problems, A. M. Muir Wood, 12CEC:71:1059
Characteristics of Waves Broken by a Longshore Bar, E. Clark McNair and Robert M. Sorensen, 12CEC:71:415
A Class of Probability Models for Littoral Drift, William R. James, 12CEC:71:831
Coastal Applications of the ERTS -- A Satellite, Orville T. Magoon, Douglas M. Pirie and John W. Jarman, CE13:72:III-2065
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
Coastal Engineering Applications of Aerial Remote Sensing, Donald B. Stafford, CE13:72:III-2045
Coastal Engineering Measurements, Johan A. Zwamborn, K. S. Russell and J. Nicholson, CE13:72:I-75
Coastal Processes from Space Photography, Maynard M. Nichols, 12CEC:71:641
Coastal Sand Management System, Birchard M. Brush, CE13:72:II-1503
Coastal Sand Mining in Northern California, U.S.A., Orville T. Magoon, John C. Haugen and Robert L. Sloan, CE13:72:II-1571
Coastline Changes Near a Tidal Inlet, Emmanuel Partheniades and James A. Purpura, CE13:72:II-843
A Comparison of Fluvial and Coastal Similitude, Bernard LeMehaute, 12CEC:71:1077
Comparison of Model and Beach Scour Patterns, John B. Herbich, 12CEC:71:1281
Comparison of Pressure and Staff Wave Gage Records, D. Esteva and D. Lee Harris, 12CEC:71:101
Computation of Alongshore Energy and Littoral Transport, Theodor R. Mogel, Robert L. Street and Byrne Perry, 12CEC:71:899
Computation of Storm Surge, Richard Silvester, 12CEC:71:1995
Computer Modelling of Diffraction of Wind Waves, Per Moller Bruun and Leon Emry Borgman, 12CEC:71:473
Confidence Intervals for Ocean Wave Spectra, Leon Emry Borgman, CE13:72:I-237
Crater-sink Sand Transfer System, Douglas L. Inman and Roland W. Harris, 12CEC:71:919
Deep Water Contruction Problems in Offshore Terminal, Vincent Scott Fox, CE:June 70:63
Deformation of Rotational Tidal Currents in Shallow Coastal Water, Harald Gohren, 12CEC:71:2147

Density Currents and Turbulent Diffusion in Locks, A. Roy Halliwell and Martin O'Dell, 12CEC:71:1959

Design Criteria for North Sea Dikes, Johann Kramer, WW4:Nov 71:703:8548

Design of Fish Conserving Intake System, Dallas I. Downs and Kenneth R. Meddock, PO2:Dec 74:191:11008

Deterioration and Restoration of Coastal Wetlands, Sherwood M. Gagliano, Hyuck J. Kwon and Johannes L. van Beek, 12CEC:71:1767

Determining Nearshore Intergravity Wave Spectra, Joseph N. Suhayda, WAVES:Sept 74:54

Dimensional Analysis - Spurious Correlation, Mehmet Selim Yalin and J. William Kamphuis, 12CEC:71:625

Directional Spectra From Wave-Gage Arrays, Narayana N. Panicker and Leon Emry Borgman, 12CEC:71:117

A Discussion of Some Measured Wave Data, J. R. Wilson and W. F. Baird, CE13:72:I-113

The Dynamics of a Coast with a Groyne System, W. T. Bakker, E. H.J. Klein Breteler and A. Roos, 12CEC:71:1001

The Effect of Groynes on Eroded Beaches, W. A. Price and K. W. Tomlinson, 12CEC:71:1053

Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, Yvon Ouellet, WW1:Feb 72:1:8693

Effect of Long Period Waves on Hydrographic Surveys, Orville T. Magoon and William O. Sarlin, 12CEC:71:2251

Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73:691:10046

Effects of Nonuniform Wave Energy in the Littoral Zone, Victor Goldsmith and Joseph M. Colonell, 12CEC:71:767

Energy Losses under Wave Action, P. D. Treloar and A. Brebner, 12CEC:71:257

Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342

Environmental Problems and Monitoring in Coastal Waters, Arthur T. Ippen, CE13:72:I-9

Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367

Equilibrium Profiles of Model Beaches, Irvathur Vasudeva Nayak, 12CEC:71:1321

Equilibrium Range Spectra in Shoaling Water, Takeshi Ijima, Takahiko Matsuo and Kazutami Koga, 12CEC:71:137

Establishment of a Coastal Setback Line in Florida, James A. Purpura, CE13:72:II-1599

Estuary Inlet Channel Stabilization Study Using A Hydraulic Model, Theodore T. Lee, 12CEC:71:1117

Experimental Study of the Hydraulic Behaviour of Inclined Groyne Systems, Julio Patriarca Barcelo, 12CEC:71:1021

Experimental Study of Wave Transmission, Mohammed Sameh Nasser and John A. McCorquodale, WW4:Nov 74:279:10928

Experiments of Wave Reflexion on Impermeable Slopes, Carlos de Campos Moraes, 12CEC:71:509

Extreme Wave Conditions in British and Adjacent Waters, Laurence Draper, CE13:72:I-157

Extreme Wave Height Distributions Over Oceans, Herbert C.S. Thom, WW3:Aug 73:355:9939

Extreme Wave Statistics for Delaware Coastal Waters, Cheng Y. Yang, Mehmet Aziz Tayfun and George Chia-Chu Hsiao, WAVES:Sept 74:352

Field Study of a Tidal Inlet, Bimini, Bahamas, W. Harrison, R. J. Byrne, J. D. Boon, III and R. W. Moncure, 12CEC:71:1201

Field Study of Surathkal Beach, P. Suryaprakasa Rao and P. Kassim, 12CEC:71:1365

Field Tests on Two Permeable Groynes, W. A. Price, K. W. Tomlinson and D. H. Willis, CE13:72:II-1401

Floating Breakwater for Reservoir Marinas, Kenneth Chen and Robert L. Wiegel, 12CEC:71:1647

Flushing Pattern of Non-reactive Effluents, Adel M. Kamel, 12CEC:71:1867

Forces Due to Waves on Submerged Structures, John B. Herbich and George E. Shank, WW1:Feb 71:57:7870

Forms of Erosion and Accretion on Cape Cod Beaches, Victor Goldsmith, Joseph M. Colonell and Peter N. Turbide, CE13:72:II-1277

Fourier Analysis of Transient Wave System, Edward K. Noda, WW4:Nov 71:663:8535

Harbor Study for San Nicolas Bay, Peru, James M. Keith and Emmett J. Murphy, 12CEC:71:2195

Hawaiian Beaches, Franciscus Gerritsen, CE13:72:II-1257

Head Loss at Tsunami-Breakwater Opening, Yoshiyuki Ito, 12CEC:71:2123

A Higher Order Theory for Symmetrical Gravity Waves, Peter L. Monkmeyer, 12CEC:71:543

The History and Philosophy of Coastal Protection, Per Moller Bruun, CE13:72:I-33

The History of the Dutch Coast in the Last Century, W. T. Bakker and D. Sj. Joustra, 12CEC:71:709

Honolulu Reef Runway Dike, Robert Q. Palmer and James R. Walker, 12CEC:71:1629

Horizontal Water Particle Velocity of Finite Amplitude Waves, Yuichi Iwagaki and Tetsuo Sakai, 12CEC:71:309

Hurricane Barrier Environmental Planning in Texas, Sidney H. Tanner and Edward J. Pullen, WW4:Nov 73:459:10171

Hurricane Surge Computations by Computer, Alan N. Sirkin, WW2:May 70:467:7299

Hydraulics and Sedimentary Stability of Coastal Inlets, Morrough P. O'Brien and Robert G. Dean, CE13:72:II-761

Hydrodynamic Analysis of Sludge Dumped in Coastal Waters, Billy L. Edge, CE13:72:III-2187

Ice Effects on Coastal Structures, H. R. Kivisild and G. D. Ransford, CE13:72:III-1801

Impact of Beach Nourishment on Distribution of *Emerita talpoioa*, the Common Mole Crab, Bruce Hayden and Robert Dolan, WW2:May 74:123:10538

Impulse Waves Generated by Landslides, J. William Kamphuis and R. J. Bowering, 12CEC:71:575

The Influence of Breaker Type on Riprap Stability, John P. Ahrens, 12CEC:71:1557

Influence of Current on Statistical Properties of Waves, Chi C. Tung and Norden E. Huang, WW4:Nov 74:267:10922

Influence of Grain Size on Littoral Drift, Jose Castanho, 12CEC:71:891

Instrument for Long-Term Measurement of Suspended Matter (Silt Gauge), Harald Gohren and Hans Laucht, CE13:72:II-1089

Interaction between Waves and Currents, Ivar G. Jonsson, Christian Skougaard and John D. Wang, 12CEC:71:489

Isopachous Mapping of the Lower Patuxent Estuary Sediments by Continuous Seismic Profiling Techniques, Newell T. Stiles and Donald R. Wiesnet, 12CEC:71:669

Jamaica Bay Hurricane Barrier, Frank L. Panuzio, 12CEC:71:2069

Laboratory Study for Design of Tsunami Barrier, Adel M. Kamel, WW4:Nov 70:767:7669

Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495

Laboratory Tests of Longshore Transport, John C. Fairchild, 12CEC:71:867

Laboratory Tests on Artificial Seaweed, W. A. Price, K. W. Tomlinson and D. H. Willis, 12CEC:71:995

Land Reclamation and Groin-building in the Tidal Flats, Heie Focken Erchinger, 12CEC:71:1041

Land Use as a Factor in Coastal Water Quality, Percy H. McGauhey, CE13:72:III-2091

Limiting Condition for Standing Wave Theories by Perturbation Method, Yoshito Tsuchiya and Masataka Yamaguchi, 12CEC:71:523

Littoral Transport and Energy Relationships, L. Bajorunas, 12CEC:71:787

Loadings on Large Piers in Waves and Currents, Hsiang Wang, 12CEC:71:1491

Macro-Turbulence From Wind Waves, Chin-Yuan Lee and Frank D. Masch, 12CEC:71:223

Mass Transport by Waves and Offshore Sand Bedforms, Trevor G. Carter, Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699

Mathematical Model of Mixing in New Haven Harbor, Michael D. Disko, Robert A. Norris and Francis C. Lutz, 12CEC:71:1847

Maximum Breaker Height, J. Richard Weggel, WW4: Nov 72:529:9384

Measurement of Density Currents in an Idealized Model, Timm Stuckrath, 12CEC:71:1979

The Measurement of Tidal Water Transport in Channels, R. E. Klein, 12CEC:71:1887

Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713

Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73: 257:9753

Modeling Sedimentation at Inlet and Coastal Region, Pang-Mou Lin, CE13:72:II-883

Model Study of Dense Jet in Flowing Fluid, Forrest M. Holly, Jr. and John L. Grace, Jr., HY11:Nov 72:1921:9365

Model Study of Transformation of Tsunamis in Urado Bay, Shigehisa Nakamura, Yuichi Iwagaki and Yoshito Tsuchiya, 12CEC:71:2089

Model Tests and Studies For Port Rashid, Dubai, Eric Loewy, 12CEC:71:1137

Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930

Multidirectional Analysis of Monochromatic Wave Trains, Subrata K. Chakrabarti, TN: WW1:Feb 74: 61:10312

Natural Flushing Ability in Tidal Inlets, I. B. Mota Oliveira, 12CEC:71:1827

A New Approach to Coastal Defense, Richard Silvester and Siew-Koon Ho, CE:Sept 74:66

New Shape in Shore Protection, Greer E. Coursey, CE:Dec 73:68

The Nile Delta Coastal Protection Project, Ismail E. Mobarek, CE13:72:II-1409

Non-Stationary Spectrum Analysis of Ocean Waves, Mehmet Aziz Tayfun, Cheng Y. Yang and George Chia-Chu Hsiao, CE13:72:I-251

Numerical Model for Tsunami Run-Up, Kenneth L. Heitner and George W. Housner, WW3:Aug 70: 701:7491

Numerical Model for Wave Pressure Distributions, J. Richard Weggel and W. Hall C. Maxwell, WW3: Aug 70:623:7467

Observation of Sedimentmotion by Underwater-Television, Gunter Luck, 12CEC:71:687

Ocean Engineering—Selected References, Walter J. Tudor, Chmn., WW3:Aug 74:241:10767

Ocean Tug-Barge Systems, Lawrence R. Glosten, WW2:May 72:243:8868

Ocean Wave Forces on a Subsurface Sphere, Robert A. Grace and Frederick M. Casciano, WW3:Aug 69:291:6722

Ocean Wave Research in Southern Africa, Johan A. Zwamborn, C. van Schaik and A. Harper, 12CEC: 71:13

Offset Coastal Inlets, Miles O. Hayes, Victor Goldsmith and Carl H. Hobbs, III, 12CEC:71:1187

An Offshore Beach Nourishment Scheme, Robert A. Dalrymple, 12CEC:71:955

Offshore Floating Terminals, Eugene H. Harlow, WW3:Aug 71:531:8295

Oil Booms in Tidal Currents, Ralph H. Cross, III and David P. Hoult, 12CEC:71:1745

Oil Booms in Tidal Currents, Ralph H. Cross, III and David P. Hoult, WW1:Feb 72:25:8719

The One-Dimensional Wave Spectra at Limited Fetch, Hisashi Mitsuyasu, CE13:72:I-289

Oscillations in Harbors with Connected Basins, Jiin-Jen Lee and Fredric Raichlen, WW3:Aug 72:311: 9094

Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125

Particle Velocity Measurements with a Laser Device, C. A. Greated and Norman B. Webber, 12CEC:71: 1951

Periodic Waves Shoaling in Waters over Steeply Sloping Bottoms, Harihara Rama, 12CEC:71:363

Physical Scales for Generation of Wind Waves, Jin Wu, WW2:May 72:163:8879

Plastic Filter Cloth used for Stone Seawalls, James W. Dunham and Robert J. Barrett, CE:Mar 74:70

Plunging Wave Pressures on a Semi-cylindrical Tube, Yuan Jen and Pang-Mou Lin, 12CEC:71:1469

Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516

Predicting Changes in the Plan Shape of Beaches, W. A. Price, K. W. Tomlinson and D. H. Willis, CE13: 72:II-1321

Prediction Curves for Waves near the Source of an Impulse, Robert L. Miller, 12CEC:71:609

Prediction of Wind Wave Heights, Henry T. Falvey, WW1:Feb 74:1:10324

The Pressure of Floating Ice-fields on Piles, Joachim Schwarz, 12CEC:71:1523

Pressure of Waves Against Vertical Walls, M. E. Plakida, 12CEC:71:1451

Probabilities of Breaking Wave Characteristics, J. Ian Collins, 12CEC:71:399

Probability Distributions for Hurricane Effects, Larry R. Russell, WW1:Feb 71:139:7886

Problems of Oil Pollution on Coastal-Waters and Beaches, Uwe Carow, CE13:72:III-2533

Processing and Analysis of Radioisotopic Sand Tracer (RIST) Study Data, H. R. Brashear, E. H. Acree, F. N. Case, P. A. Turner and David B. Duane, 12CEC:71:821

Properties of Longshore Bars in the Great Lakes, James H. Saylor and Edward B. Hands, 12CEC:71: 839

Quadratic Loss and Scattering of Long Waves, Chiang C. Mei, Philip L-F. Liu and Arthur T. Ippen, WW3:Aug 74:217:10754

Reach of Waves to the Bed of the Constitutional Shelf, Richard Silvester and Geoffrey R. Mogridge, 12CEC:71:651

Recent History of Erosion at Carolina Beach, N. C., Limberios Vallianos, 12CEC:71:1223

Recirculation in Shallow Bays and Rivers, R. K. Price, Robert A. Dalrymple and Robert G. Dean, 12CEC:71:1813

Recreational Surfing on Hawaiian Reefs, James R. Walker, Robert Q. Palmer and Joseph K. Kukea, CE13:72:III-2597

Regular Wave Effects on Walls Made of Cylinders, G. D. Khaskhachikh and O. M. Vanchagov, WW4: Nov 71:735:8547

Remote Sensing in the Study of Coastal Processes, Orville T. Magoon and Douglas M. Pirie, CE13:72: III-2027

Reproduction of Physical Processes in Coastal Areas, Hans-Gerhard Ramming, CE13:72:III-2197

Researches on Sea-Walls, Shoshichiro Nagai, 12CEC: 71:1431

Researches on the Deformation of Wave Spectra in Intermediate Water Area by Calculation, Frederick L.W. Tang and Shan-Hwei Ou, CE13:72:I-271

Research for the Coastal Area of the Delta Region of the Netherlands, J. J. Dronkers, 12CEC:71:1783

Resonance in Harbors of Arbitrary Shape, Jiin-Jen Lee and Fredric Raichlen, 12CEC:71:2163

Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708

Results from the CERC Wave Measurement Program, Edward F. Thompson, WAVES:Sept 74: 836

River-Coast Interaction: Laboratory Simulation, Omar H. Shemdin, WW4:Nov 70:755:7658

Run-Up Distributions of Waves Breaking on Slopes, Jurjen A. Battjes, WW1:Feb 71:91:7923

The Schematization for Tidal Computations in Case of Variable Bottom Shape, J. J. Dronkers, CE13:72: III-2369

Sea Observation in Coastal Areas: The Spanish Offshore Network, P. S. Bores, WAVES:Sept 74:13

Seasonal Bottom Changes - Bolinas Bay, California, Joe W. Johnson, 12CEC:71:1383

Sediment Pollution in Coastal Waters, Jacobus van de Kreeke, 12CEC:71:1803

Selection of Disposal Areas for Spoil From Baltimore Harbor, John F. Hoffman, 12CEC:71:2267
Sequential Photography of Coastal Water, Maynard M. Nichols, CE13:72:II-747
The Shear Stress of Sea Breeze on a Swash Zone, Shih-Ang Hsu, 12CEC:71:243
Shoaling of Finite-Amplitude Waves on Plane Beaches, Robert K. C. Chan and Robert L. Street, 12CEC:71:345
Shock Pressure on Coastal Structures, Adel M. Kamel, WW3:Aug 70:689:7487
Simultaneous Data System for Instrumenting the Shelf, Robert L. Lowe, Douglas L. Inman and Birchard M. Brush, CE13:72:I-95
Some Comments on Coastal Engineering, Morrough P. O'Brien, CE13:72:I-3
Some Experiments with Sand-filled Flexible Tubes, Per Roed Jakobsen and Arne Hasle Nielsen, 12CEC:71:1513
Some Results of a Directional Wave Recording Station, J. Ploeg, CE13:72:I-131
Some Sand Transport Phenomena on Coasts with Bars, Mogens Dyhr-Nielsen and Torben Sorensen, 12CEC:71:855
Spectral Computations on Pressure Wave Gauge Records, Manuel Mendes de Carvalho, Fernando Silveira Ramos and Carlos de Campos Moraes, 12CEC:71:65
Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4: Nov 72:443:9318
Spectral Response of Harbor Resonator Configurations, William James, 12CEC:71:2181
Stability of Laminar Flow at Seabed, John F.A. Sleath, WW2:May 74:105:10512
State of Groin Design and Effectiveness, J. H. Balsillie and Dennis W. Berg, CE13:72:II-1367
Statistical Prediction of Hurricane Storm Surge, Cheng Y. Yang, A. M. Parisi and William S. Gaither, 12CEC:71:2011
Stochastic Analysis of Beach Profile Data, Choule J. Sonu and Myron H. Young, 12CEC:71:1341
Studies on the Shore Process and Wave Features of the Western Coast of Taiwan, Kenneth S. T. Chang and Frederick L. W. Tang, 12CEC:71:729
Study of Durban Harbor Silting and Beach Erosion, Jan Malan Jordaan, Jr., 12CEC:71:1097
Study of Mudbanks along the Southwest Coast of India, N. S. Moni, 12CEC:71:739
Study of Topolobampo's Bay, Mexico, Entrance, Hector Lopez Gutierrez and Daniel Cervantes Castro, 12CEC:71:1151
Study of Wave Climate in Nearshore Waters, Steven S. Pawka, WAVES:Sept 74:745
Successive Saltation of a Sand Grain by Wind, Yoshito Tsuchiya, 12CEC:71:1417
Supercarriers Versus U.S. Harbor Dimensions, Francis P. Koisch, WW1:Feb 71:19:7904
Surface Oscillations in a Water Tank Caused by a Submerged Jet, Juan B. Font, Omar Azpurua and Flora Aranguren, 12CEC:71:2243
Surge in the Southeast Basin, Long Beach Harbor, Calif., Basil W. Wilson, James A. Hendrickson and Yuan Jen, CE13:72:III-2617
Suspended Load Calculations in a Tidal Estuary, Brian A. O'Connor, 12CEC:71:1931
Swell and Storm Characteristics from Coastal Wave Records, Warren C. Thompson, 12CEC:71:33
Synoptic Observations of Sand Movement, David B. Duane, 12CEC:71:799
Systematic Study of Coastal Erosion and Defence Works in the Southwest Coast of India, N. S. Moni, CE13:72:II-1427
A System for Measuring Orbital Velocities in Waves, M. M. Kolpak and P. S. Eagelson, 12CEC:71:327
Tidal Inlet Problems Along the New England Coast, Oscar E. Arpin, 12CEC:71:1171
Tidal Motion in Bays, Omar H. Shemdin and R. M. Forney, 12CEC:71:2225
Tidal Waves in Schematic Estuaries, Hans Vollmers and Jurgen Sundermann, 12CEC:71:2133
Trapping of Outfall Constituents behind Sills, T. Carstens and A. Sjoberg, 12CEC:71:1917
Tsunamis: Some Laboratory and Field Observations, Fredric Raichlen, 12CEC:71:2103
Turbulence and Sediment Concentration due to Waves, Kiyoshi Horikawa and Akira Watanabe, 12CEC:71:751
Turbulence in Hurricane-Generated Coastal Currents, Stephen P. Murray, 12CEC:71:2051
Two-Dimensional Wind Set-Up of Oil on Water, Robert M. Sorensen and Edmund B. Spencer, WW3:Aug 71:517:8326
Underwater Mound for the Protection of Durban's Beaches, Johan A. Zwamborn, G. A. W. Fromme and J. B. FitzPatrick, 12CEC:71:975
An Underwater Survey System for Radionuclide-tagged Sediment Tracing, E. H. Acree, H. R. Brashear and F. N. Case, 12CEC:71:815
Use of Asphalt in Breakwater Construction, K. d'Angremond, H. J. Th. Span, J. van der Weide and A. J. Woestenenk, 12CEC:71:1601
Use of Crenulate Shaped Bays to Stabilize Coasts, Richard Silvester and Siew-Koon Ho, CE13:72:II-1347
Variation of Longshore Current Across the Surf Zone, Edward B. Thornton, 12CEC:71:291
Variation of Topography of Sea-bed Caused by the Construction of Breakwaters, Shoji Sato and Isao Irie, 12CEC:71:1301
Velocities Above Rough Bed in Oscillatory Flow, John F.A. Sleath, WW4:Nov 74:287:10930
Velocity Fields in the Wave Breaker Zone, M. D. Adeyemo, 12CEC:71:435
Water Current Meter for Mean Flow Measurements, David Smith, 12CEC:71:1903
Water Waves Generated by Landslides, Edward K. Noda, WW4:Nov 70:835:7699
Water Waves Produced by Ships, Robert M. Sorensen, WW2:May 73:245:9754
Wave Attenuation by Fluid Filled Bags, Harald D. Frederiksen, WW1:Feb 71:73:7874
Wave Climate in the Eastern Caribbean, Compton Deane, WAVES:Sept 74:214
Wave Defraction by Detached Breakwater, Michael Stiassnie and Gedeon Dagan, WW2:May 72:209: 8869
Wave Energy Transfer Mechanisms in Wind-Wave Tunnels, James B. Bole, WW4:Nov 74:325:10932
Wave Forces on Cylinders Near Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, WW4:Nov 74:345:10944
Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098
Wave Forecasting for the West Coast of India, Jade Dattatri and P. S. Renukaradhya, 12CEC:71:203
Wave Forecasting for the West Coast of India, Jade Dattatri and P. S. Renukaradhya, WW3:Aug 71: 505:8303
Wave Gages in Coastal Areas, J. J. Pilon, WAVES: Sept 74:585
Wave-Influence on Wind Velocity Profile, Omar H. Shemdin, WW4:Nov 70:795:7661
Wave Investigations in Shallow Water, Winfried Siefert, 12CEC:71:151
Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, Joseph M. Colonell, Stewart C. Farrell and Victor Goldsmith, HYB:Aug 73:131
Waves Generated by a Piston-type Wavemaker, Ole Secher Madsen, 12CEC:71:589
Waves Generated by Horizontal Motion of a Wall, Madan M. Das and Robert L. Wiegel, WW1:Feb 72:49:8707
Waves Generated by Large Ships and Small Boats, Madan M. Das and Joe W. Johnson, 12CEC:71: 2281
Waves in a Harbor with Protruding Breakwaters, Chiang C. Mei and Ricardo V. Petroni, WW2:May 73:209:9700
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532
Wave Train Direction Analysis, Subrata K. Chakrabarti, TN: WW4:Nov 71:787:8491
Wave Transmission through Porous Structures, Ole Secher Madsen, WW3:Aug 74:169:10714
Weak Reflection of Water Waves by Bottom Obstacles, Chiang C. Mei, EM1:Feb 69:183:6401

Wind and Surge Damage Due to Hurricane Camille, Herbert C. S. Thom and R. D. Marshall, WW2: May 71:355:8144
Wind Stress on a Coastal Water Surface, S. A. Hsu, CE13:72:III-2531
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, WW1: Feb 74:13:10325

Coastal Structures
Maximum Breaker Height, J. Richard Weggel, WW4: Nov 72:529:9384
On the Need of Wave Data for the Design of Rubble-Mound Breakwaters, Yvon Ouellet, WAVES:Sept 74:500

Coastal Surveillance
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63: 10030

Coastal Topographic Features
Simultaneous Data System for Instrumenting the Shelf, Robert L. Lowe, Douglas L. Inman and Birchard M. Brush, CE13:72:I-95

Coasts
Coastal Erosion in North Carolina, Leonard J. Langfelder, Donald B. Stafford and Michael Amein, WW2:May 70:531:7306
Equilibrium Flow Areas of Inlets on Sandy Coasts, Morrough P. O'Brien, WW1:Feb 69:43:6405
Interaction Of A River With The Coast: Laboratory Simulation, Omar H. Shemdin, CEO-II:70:763

Coating Processes
Effect of Coating on Thermal Conductivity of Pipes, P. Mahmoodi, TE1:Feb 70:71:7102

Codes
Adaptive Control of Design Codes, Gerald Schorn and Niels C. Lind, EM1:Feb 74:1:10332
Analysis of Friction Piles, George A. De Pauw, CE: Oct 74:60
Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375
Exact and Invariant Second-Moment Code Format, Abraham M. Hasofer and Niels C. Lind, EM1:Feb 74:111:10376

Coefficient of Variation
Concrete Quality, Neil Jackson, TB:73:Ib-9-896

Coefficients
Bridge Piers-Hydrodynamic Force Coefficients, Colin J. Apelt and Lewis T. Isaacs, HY1:Jan 68:17:5707
Designing Spillway Crests for High-Head Operation, John J. Cassidy, HY3:Mar 70:745:7153
Drag Coefficients in Nonsteady Turbulent Flow, Alex J. Sutherland and David J. Painter, HY7:July 71: 1031:8233
Effect of Blockage on Steady Force Coefficients, Amruthur S. Ramamurthy and C. P. Ng, EM4:Aug 73:755:9905
Effect Of Side Walls On Flow Past Bluff Bodies, Thomas L. Shaw, HY1:Jan 71:65:7788
Estimating Dispersion Coefficents In Estuaries, David A. Bella and William J. Grenney, TN: HY3: Mar 72:585:8754
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831
Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Impact of Spheres on Ice, Yin-Chao Yen, Fuat Odar and Lynwood R. Bracy, EM5:Oct 70:641:7607
Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830
Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713
Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11: Nov 72:2015:9370
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221
Power Losses and Flow Topologies in Manifold, Jaime Amorocho and Johannes J. DeVries, HY1: Jan 71:81:7791
Scale and Boundary Effects in Foundation Analysis, James Graham and John Gordon Stuart, SM11:Nov 71:1533:8510
Shear Flow Past Circular Cylinder, Thomas L. Shaw and Michael R. Starr, HY3:Mar 72:461:8774
Sheet-Pile Analysis by Distribution Theory, Dafalla A. Turabi and Arpad Balla, SM1:Jan 68:291:5769
Solution of Flow Under Sluice Gate, Yong Kwun Chung, EM1:Feb 72:121:8744
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72: 1187:9061
Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514

Cofferdams
Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075
Design of a Barrel-Vault Cofferdam, James A. Cheney, ST4:Apr 69:677:6511
Design of Temporary Retaining Structures for the Washington Subway System, James P. Gould, PES: 73:III-251
Development of Wells Hydroelectric Project, James G. Patrick, PO2:Mar 71:267:7967
Diversion at Portage Mountain Project, Harold K. Pratt, PO3:June 70:349:7346
Earth Dam Built Without Dewatering, Keith A. Henry, CE:Jan 71:37
Field Measurements at La Angostura Cofferdams, Luis Ramirez De Arellano and Edmundo Moreno Gomez, PES:72:I-779
Finite-Element Analysis of Seepage Through Dams, W. D. Liam Finn, SM6:Nov 67:41:5552
Flow Through Rockfill Dam, Horace A. Johnson, SM2:Feb 71:329:7914
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
Mossyrock Project River-Diversion and Care of Fish, Earl J. Beck, PO1:Jan 71:1:7800
New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
Novel Construction Concept for Raw-Water Intake, Carlton T. Wise and Doyle D. Gillespie, CE:June 71:43
Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077
River Diversion for Boundary Dam, Adolf A. Schilling, PO3:June 70:319:7339
Rock Island to Use Bulb Turbines—A First in U.S., Wayne A. Stewart and Warner W. Wayne, Jr., PO2:Dec 74:175:11005
The Rupture Figure for a Double Wall Cofferdam, B. K. Mazurkiewicz, PES:72:I-1271
Seepage into a Sheet Pile Cofferdam, B. S. Rama Rao and J. Visweswara Rao, HY9:Sept 73:1515:10001
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
Tidal Power Station on USSR's Arctic Coast, Lev B. Bernstein, CE:Apr 74:46

Typhoon Waves at the High Island Dam, Hong Kong, Peter Ackers, J. A.T. Aspden and J. L. Boyd, WAVES:Sept 74:523
Unique Methods Solve Cofferdam Construction, E. V. Wright, CE:Nov 71:37

Cohesion
Bearing Capacity of Anisotropic Cohesive Soil, Edward H. Davis and John T. Christian, SM5:May 71:753:8146
Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247
Recent Results in French Research on Reinforced Earth, Francois Schlosser and Nguyen-Thanh-Long, CO3:Sept 74:223:10800
Study of Five Embankment Failures on Soft Soils, Georges Pilot, PES:72:I-81

Cohesionless Soils
Axial Stress-Strain Characteristics of Sand, Herbert Breth, Ernst Schuster and Prabhakar J. Pise, SM8: Aug 73:617:9919
Bearing Capacity Theory From Experimental Results, A. Verghese Chummar, SM12:Dec 72:1311:9411
Bridge Foundation Behavior in Alaska Earthquake, Grant A. Ross, H. Bolton Seed and Ralph R. Migliaccio, SM4:July 69:1007:6664
Crater-sink Sand Transfer System, Douglas L. Inman and Roland W. Harris, 12CEC:71:919
Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793: 10057
Elastic Behavior of Cohesionless Soil, Igor Holubec, SM6:Nov 68:1215:6216
New Method for Deep Sand Vibratory Compaction, Robert D. Anderson, CO1:Mar 74:79:10429
Permeability of Cohesionless Soils, Abdelwahab M. Amer and Amin A. Awad, TN: GT12:Dec 74:1309: 10981
Recoverable Deformation Of Cohesionless Soils, Max D. Coon and Roger J. Evans, S&M2:Feb 71:375: 7911
Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72: 381:8844
Settlement of Two Tanks on Loose Cohesionless Soil, Leonard J. Langfelder and David W. Johnston, 4PCSM:71:II15
Tests on Cohesionless Materials for Rockfill Dams, Emanuele Fumagalli, SM1:Jan 69:313:6353

Cohesive Soils
Analysis of Undrained Behavior of Loads on Clay, Richard M. Simon, John T. Christian and Charles C. Ladd, GT74:June 74:51
An Approach to the Stability of Rock Slopes Based on the Theory of Limiting Equilibrium with a Material Exhibiting Anisotropic Shear Strength, J. E. Jennings, RM13:72:269
Expansion of Cylindrical Probes in Cohesive Soils, Francois Baguelin, Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129: 9377
Mohr-Coulomb Strength Theory for Anisotropic Soils, Wallace H. Baker and Raymond J. Krizek, SM1:Jan 70:269:7015
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
Physico-Chemical Factors in Erosion of Cohesive Soils, Arunachalan Sargunam, Patrick Reley, Kandiah Arulanandan and Ray B. Krone, TN: HY3:Mar 73:555:9609

Cold Forgings
Book Review: Cold Formed Steel Structures, Donovan S. Wolford, CE:Nov 73:28
Cold-Formed Steel Members with Perforated Elements, Wei-Wen Yu and Charles S. Davis, ST10:Oct 73:2061:10059

Cold-Rolled Steel
Connections in Thin Low-ductility Steels, Asfandiar K. Dhalla, Samuel J. Errera and George Winter, ST10:Oct 71:2549:8442
Local and Overall Buckling of Cold-Formed Members, John T. DeWolf, Teoman B. Pekoz and George Winter, ST10:Oct 74:2017:10875
Structural Behavior of Thick Cold-Formed Steel Members, Wei-Wen Yu, Victor A.S. Liu and William M. McKinney, ST11:Nov 74:2191:10907

Cold Rolling
How Safe are Your Poles?, Joseph R. Arena, ST7: July 73:1333:9848

Cold Weather Construction
Arctic Construction Problems and Techniques, Neil T. Monney, Millard M. Hill, P. Oien, S. J. Rowland and F. L. Vail, CO1:Jan 68:89:5760
Arctic Hangar for Minus 60 Deg F, Ralph Kratz, CE:May 71:72
Artic Research Laboratory, William H.G. Van Ness, CE:May 71:69
Basic Construction Principles in Higher Latitudes, Shu-T'ien Li, CO1:Mar 74:33:10399
Construction of Large Prestressed Concrete Girders, J. Neil Mustard and Ram S. Ghosh, CO4:Dec 74: 507:10994
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125: 9697
Masonry Construction Operations, Clayford T. Grimm, CO2:June 74:171:10630
Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. Mohan Malhotra, EM2:Apr 74:305:10489
Weather Effects on Mason Productivity, Clayford T. Grimm and Norman K. Wagner, CO3:Sept 74:319: 10783
Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Cold Weather Operations
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald L. York, CE:Aug 73:56

Cold Working
Minimum Weight Design of Light Gage Steel Members, Paul A. Seaburg and Charles G. Salmon, ST1:Jan 71:203:7830

Coliform Bacteria
Biological Control Of Intestinal Bacteria and Viruses, Ralph Mitchell, CEO-II:70:1241
Influence of Summer Use of a Mountain Watershed on Bacterial Water Quality, Quentin D. Skinner, John C. Adams and Paul A. Rechard, IRS:Sept 72: 57
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
Protection of E. Coli by Montmorillonite in Seawater, Gabriel Bitton and Ralph Mitchell, TN: EE6:Dec 74:1310:10978

Coliforms
Coliform-Fecal Coliform Bacteria in Tidal Waters, Gerald A. Strobel, SA4:Aug 68:641:6068

Coliphage
f_2 Coliphage as Tracer in Wastewater Basin, Kazuyoshi Kawata and Vincent P. Olivieri, TN: EE6:Dec 74:1307:10978

Collapse
An Analysis of the Pt. Pleasant Bridge Investigation, Charles F. Scheffey, STF:73:77
Boston Collapse, William A. Litle, STF:73:99

Collapse Load Analysis of Frames Considering Axial Forces, M. Z. Cohn and Tariq Rafay, EM4:Aug 74:773:10757
Collapse Load of Reinforced Concrete Footings, George G. Meyerhof and Kanakapura S. Subba Rao, ST5:May 74:1001:10531
Collapse Loads For Continuous Slabs With Orthotropic Reinforcement, B. Vijaya Rangan, TN: ST9:Sept 72:2149:9162
Collapse of Clamped Variable Thickness Circular Plates, Helmut M. Haydl and Archibald N. Sherbourne, TN: EM6:Dec 73:1309:10187
Collapse of Curved Reinforced Concrete Beams, Ian J. Jordaan, Magdi M. A. Khalifa and Arthur E. McMullen, ST11:Nov 74:2255:10951
Collapse of Yielding Structures During Earthquakes, Paul C. Jennings and Raul Husid, EM5:Oct 68:1045:6154
Design for Prevention of Progressive Collapse, Ramzi H. Ferahian, CE:Feb 72:66
Elasto-Plastic Behavior of Intersecting Shells, Fernand Ellyin, EM1:Feb 69:69:6387
Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920
Extension of Incremental Collapse Theorems, Atle Gjelsvik, TN: EM5:Oct 71:1603:8412
Falsework Failures; Can They be Prevented?, Arthur L. Elliott, CE:Oct 73:74
Kazerne Viaduct Collapse, Konstant E. Bruinette, Alan J. Ockleston and Pieter C. Pretorius, ST2:Feb 74:335:10361
Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825
Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848
Point Pleasant Bridge Collapse-Conclusions of the Federal Study, Charles F. Scheffey, CE:July 71:41
Point Pleasant Bridge Collapse Mechanism Analyzed, Daniel Dicker, CE:July 71:61
Progressive Collapse, Abnormal Loads, and Building Codes, David E. Allen and William R. Schriever, STF:73:21
Progressive Collapse Risk, Norman F. Somes, TB:73:Ib-8-727
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128
Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, Alexander Popoff, Jr., TB:73:III-23-571
Standard Penetration Tests in Collapsible Soils, Aldo R. Reginatto, 4PCSM:71:I177

Collars
Pressurized Tubes Constrained by Rigid Collars, Furman W. Barton and Thomas H. Dawson, TN: EM3:June 73:9765

Collecting Methods
Multivariate Study of Refuse Collection Efficiency, Lawrence J. Partridge, Jr. and Joseph J. Harrington, EE4:Aug 74:963:10729

Collection
Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916

Collective Bargaining
American Engineering Unions, Hatim M. Hajj, PP2:Apr 73:213:9657
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
Engineers Salaries: What California Is Doing, Schaefer J. Dixon and L. Lawrence Lewis, CE:June 70:56
The Making of a "Pro"—A Faculty Viewpoint, Dan H. Pletta, EI3:July 74:217:10645
Salary Guidelines: Enlightened Implementation or Unionization?, Jack H. McMinn, PP4:Oct 73:429:10090

Collisions
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747

Colloids
Investigation of a Wood Curing Waste, Vernon L. Stump and Franklin J. Agardy, SA6:Dec 69:1051:6953

Colombia
Slope Stability in Tropically Weathered Diorite, Andrew H. Merritt, RM13:72:625

Colorado
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
Ground-Water Quality Study, Nikolas F. White and Daniel K. Sunada, IR3:Sept 74:277:10813
Ground Water Quality, West Jefferson County, Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045
Preliminary Design and Construction Concepts for Crystal Dam, James Legas, ECCD:72:191
River Regulation as Influence on Peak Discharge, Alan F. Huggins and Martin R. Griek, HY7:July 74:901:10671
Shotcrete Practices at the Henderson Mine, Robert C. Jones, SUSS:July 73:50

Colorado River
Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395:10146
Colorado River-Flow Management, Robert E. Glover, Chester A. Nelson and John I. Sanders, HY11:Nov 74:1519:10934
Impacts of Colorado River Salinity, Vernon E. Valantine, IR4:Dec 74:495:10985

Columbia River
Gas Supersaturation Problem in the Columbia River, Peter B. Boyer, IRS:Sept 72:205
Rock Island to Use Bulb Turbines—A First in U.S., Wayne A. Stewart and Warner W. Wayne, Jr., PO2:Dec 74:175:11005

Columns
Behavior of Biaxially Loaded Columns, Wai F. Chen, TB:73:II-16-575
Behavior of Laterally Reinforced Concrete ColumnF, Edwin G. Burdette and Hubert K. Hilsdorf, ST2:Feb 71:587:7905
Column Web Strength in Beam-to Column Connections, Wai F. Chen and David E. Newlin, TN: ST9:Sept 73:1978:9968
Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603
Elastic Analysis of Frameworks with Elastic Connections, Edgar Lightfoot and Andrew P. Le Messurier, ST6:June 74:1297:10632
Engineer's Notebook: Ultimate Strength Design Of Circular Reinforced Concrete Cross Sections, George Fekete, CE:Nov 73:80
Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851
Fire Resistance of Unprotected Steel Columns, W. W. Stanzak and T. T. Lie, ST5:May 73:837:9719
Inelastic Behavior of H-Columns Under Biaxial Bending, Gunnar A. Harstead, Charles Birnstiel and Keh-Chum Leu, ST10:Oct 68:2371:6173
Stability of a Heated Plastic Column, Li-Chung Tao and Atle Gjelsvik, EM5:Oct 69:1169:6849
Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, James G. Mac Gregor, TB:73:III-23-517
Stability of Three Dimensional Building Frames, State-of-Art Report 4, Peter F. Adams, TB:73:II-16-483

Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499

Staggered Columns in Flat Plates, Maurice P. Van Buren, ST6:June 71:1791:8222

Sustained and Cyclic Loading of Concrete Columns, Jostein Hellesland and Roger Green, ST4:Apr 71:1113:8033

Ultimate Load Tests on Braced Multistory Frames, Joseph A. Yura and Le-Wu Lu, ST10:Oct 69:2243:6840

Columns (Supports)

Analysis of Biaxially Loaded Steel H-Columns, Sakda Santathadaporn and Wai F. Chen, ST3:Mar 73:491:9621

Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72:1069:8911

Assured Upper Bounds via Complementary Energy, Carl H. Popelar, EM4:Aug 74:623:10704

Axial Load Design for Concrete Filled Steel Tubes, Robert B. Knowles and Robert Park, ST10:Oct 70:2125:7597

Behavior of Composite-Beam to Column Joints, J. Hartley Daniels, Geoffrey D. Kroll and John W. Fisher, ST3:Mar 70:671:7173

Behavior of Continuous Crane Rails, Pavel J. Marek and J. Hartley Daniels, ST4:Apr 71:1081:8067

Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, Karl Kordina, TB:73:III-23-555

Behaviour of Concrete-Filled Steel Tubular Columns, Wai F. Chen, TB:73:III-23-608

Biaxially Loaded Beam-Column Analysis, Ishwar C. Syal and Satya S. Sharma, ST9:Sept 71:2245:8384

Biaxial Moment Thrust Curvature Relations, Robert F. Warner, ST5:May 69:923:6564

British Column Design, Allan R. Gent, TB:73:II-16-545

Buckling Analysis of One-Story Frames, Alfred Zweig, ST9:Sept 68:2107:6118

Buckling of Columns with Random Initial Displacements, Michael C. Bernard and John L. Bogdanoff, EM3:June 71:755:8194

Buckling of Inelastic Tapered Pin-Ended Columns, Franklin J. Appl and James O. Smith, EM2:Apr 68:549:5897

Buckling of Slanted Columns, Chin-Hao Chang, EM4:Aug 74:737:10738

Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348

Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682

Buckling of Wide Flange Columns About Minor Axis, Subhash C. Anand, Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513

Buckling Strength of Columns Based on Random Parameters, Bertrand T. Chung and George C. Lee, ST7:July 71:1927:8259

Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398

Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71

Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437

Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515

Column Instability Under Weight and Follower Loads, David J. McGill, EM3:June 71:629:8196

Column Moments in Eccentrically Supported Tanks, Phillip L. Gould and Subir K. Sen, TN: ST10:Oct 74:2165:10858

Columns Braced by Girts and a Diaphragm, Tamirisa V.S.R. Apparao, Samuel J. Errera and Gordon P. Fisher, ST5:May 69:965:6576

Columns Design in Buildings, State-of-Art Report 1, J. Brozzetti and J. Fourcriat, TB:73:II-16-415

Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238

Composite Cores and Columns, Hannskarl Bandel, TB:73:Ia-3-632

Computer Analysis for Slender Concrete Columns, John Gaughan, ST10:Oct 74:2123:10894

Concrete Column Design by AASHO Specifications, Hans H. Fickel, ST4:Apr 71:1187:8070

Concrete Encased Steel Columns—Design Tables, Richard W. Furlong, ST9:Sept 74:1865:10807

Cooling Towers Supported on Columns, Salman H. Abu-Sitta, ST12:Dec 70:2575:7753

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3:June 72:595:8968

Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741

Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-European Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB:73:II-13-37

Curvature and the Solution of Eccentrically Loaded Columns, Wai F. Chen and Sakda Santathadaporn, EM1:Feb 69:21:6382

Design Criteria for H-Columns under Biaxial Loading, Negussie Tebedge and Wai F. Chen, ST3:Mar 74:579:10400

Design of Columns for Seismic Loads, Aybars Gurpinar and James T.P. Yao, ST9:Sept 73:1875:9978

Design of Wood Columns for Flexural and Axial Loading, German R. Gurfinkel, ST11:Nov 70:2389:7701

Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131

Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765

Ductile-Frame Tie Bars, John T. Merrifield and Albert P. Jensen, CE:Nov 71:52

Eccentrically Loaded Circular Plates on Columns, Kasem Chantaramungkorn, Pasidhi Karasudhi and Seng-Lip Lee, TN: ST1:Jan 73:234:9464

Eccentrically Loaded Columns, Alexander Chajes, TN: ST2:Feb 74:493:10341

Effect of Creep in Slender Columns, Neil Jackson, TB:73:III-23-625

Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73:III-23-537

Effects of Creep and Shrinkage on Prestressed Concrete Columns, William J. Wilhelm and Paul Zia, ST10:Oct 70:2103:7614

Effects of Initial Curvature on Column Strength, Wai F. Chen, TN: ST12:Dec 70:2685:7717

Elastic Behavior of Biaxially Loaded Steel Columns, Ishwar C. Syal and Satya S. Sharma, ST3:Mar 70:469:7143

Elastic Buckling of Two Component Columns, Yu-wen Hsu, EM3:June 69:611:6612

Experiments on Nonsway Structural Subassemblages, Eugene L. Sheninger and Le-Wu Lu, ST3:Mar 70:573:7159

Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12:Dec 72:2647:9407

Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72:1529:9429

Flexural Rigidity of Concrete Column Sectione, Ian C. Medland and Donald A. Taylor, ST2:Feb 71:573:7933

Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343

Free Transverse Vibration of Flat Slabs, Paul P. Lynn and Nahit Kumbasar, EM1:Feb 69:255:6425

Free Vibration of Two-Dimensional Frameworks, Karl-Robert Leimbach and Donald McDonald, ST2:Feb 70:267:7082

Full-Size Lightweight Concrete Columns, Donald W. Pfeifer, ST2:Feb 71:495:7903

Further Studies of Inelastic Beam-Column Problem, Wai F. Chen, ST2:Feb 71:529:7922

General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103
General Solution of Inelastic Beam-Column Problem, Wai F. Chen, EM4:Aug 70:421:7482
Hollow Tubular Beam-Columns in Biaxial Bending, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1399:8094
Hyperboloids of Revolution Supported on Columns, Phillip L. Gould and Seng-Lip Lee, EM.5:Oct 69:1083:6820
Inelastic Bar Subjected To Thrust and Cyclic Bending, Ben Kato and Hiroshi Akiyama, ST1:Jan 69:33:6335
Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Interaction Equations for Biaxially Loaded Sections, Wai F. Chen and Toshio Atsuta, ST5:May 72:1035:8902
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107
Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439:10232
Load Carrying Capacity of Simple Composite Columns, J. W. Roderick and D. F. Rogers, ST2:Feb 69:209:6412
Local and Overall Buckling of Cold-Formed Members, John T. DeWolf, Teoman B. Pekoz and George Winter, ST10:Oct 74:2017:10875
Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011:10064
Lumped Parameter Model for Stability Analysis, Walter D. Pilkey and Kevin J. O'Connor, TN: ST7:July 73:1702:9828
Method of Analysis of Laterally Loaded Columns, Francois Cheong Siat Moy, ST5:May 74:953:10548
Minimum Weight Design with Stability Constraint, Mehdi S. Zarghamee, ST8:Aug 70:1697:7486
Multistory Prefabricated Columns, German R. Gurfinkel, CO2:Oct 70:137:7587
Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
A Numerical Technique for Elastica Problems, John V. Huddleston, EM5:Oct 68:1159:6182
Optimal Design for Prescribed Buckling Loads, Kalayya Narayana Murthy and Paul P. Christiano, ST11:Nov 74:2175:10912
Optimum Prestressed Tubular Columns, Ralph L. Barnett, ST2:Feb 70:291:7083
Over-All and Local Buckling of Channel Columns, Ahmed A. Ghobarah and Wai K. Tso, EM2:Apr 69:447:6513
Parametric Vibration Response of Columns, Martin L. Moody, EM3:June 69:665:6619
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
Pittsburgh National Building, Welton Becket and Associates, TB:73:C-P-310
Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255
Postbuckling of Column under Distributed Axial Load, Tung-Ming Wang, TN: EM4:Aug 71:1323:8273
Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906
Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654
Random Behavior of Columns, Paul H. Wirsching and James T. P. Yao, EM3:June 71:605:8183
R/C Column Earthquake Response in Two Dimemsions, A. Emin Aktan, David A, Pecknold and Mete A. Sozen, ST10:Oct 74:1999:10864
Reinforced Concrete Column Response to Fire, Boris Bresler and H. Bizri, TB:73:Ib-8-723
Reinforced Concrete Columns, State-of-Art Report 5, Ignacio Martin, TB:73:III-21-223
Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011
Reinforced Concrete Rectangular Columns in Torsion, Alfred G. Bishara and Jong-Cherng Peir, ST12:Dec 68:2913:6305
Reinforced Lightweight Concrete Columns, Donald W. Pfeifer, ST1:Jan 69:57:6362
Repair of 7-Story Bearing Wall, Russell S Fling, CO1:July 69:39:6669
Residual Stresses and Tubular Compression Members, Donald R. Sherman, ST3:Mar 71:891:8001
Response of Slender Columns to Rapid Compression, Martin L. Moody, EM1:Feb 69:211:6403
Restrained Elastic Beam-Columns, Nicholas S. Trahair, ST12:Dec 69:2641:6941
Review of Column Behavior Under Biaxial Loading, Wai F. Chen and Sakda Santathadaporn, ST12:Dec 68:2999:6316
Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595
Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876
Significance and Application of Stub Column Test Results, Ching K. Yu and Lambert Tall, ST7:July 71:1841:8231
Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729:8544
Slender Prestressed Concrete Columns, Samuel Aroni, ST4:Apr 68:875:5886
Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
Southwell Plot for Beam-Columns, Robert H. Leicester, EM6:Dec 70:945:7750
Spaced Steel Columns, Bruce G. Johnston, ST5:May 71:1465:8109
Spandrel-Slab Interaction, Mario G. Salvadori, ST1:Jan 70:89:7017
Stability Behavior Illustrated by Simple Models, Alexander Chajes, ST6:June 69:1153:6598
Stability of Columns Subject to Impulsive Loading, Siegfried M. Holzer and Robert A. Eubanks, EM4:Aug 69:897:6734
Stability of Columns With Transient Loads, Siegfried M. Holzer, EM6:Dec 70:913:7730
Stability of Frames and Shear Walls, Gert Konig, Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613
Stability of Novel Building Systems, State-of-Art Report 5, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-499
Stability of Water Cooled Columns, Atle Gjelsvik, EM4:Aug 71:1205:8335
Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51
Steel Column Buckling Under Thermal Gradients, Charles G. Culver, ST8:Aug 72:1853:9150
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
Steel-Encased Expansive Cement Concrete Column, Vitelmo V. Bertero and Saad E. Moustafa, ST11:Nov 70:2267:7660
Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639
Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455
Strength Analysis of Corner Column-Slab Connections, E. Ramzy F. Zaghlool, ST1:Jan 73:53:9471
Strength of Beams or Columns with Buckled Elements, Maurice L. Sharp, TN: ST5:May 70:1011:7254
Strength of Concrete Filled Steel Tubular Columns, Robert B. Knowles and Robert Park, ST12:Dec 69:2565:6936

Strength of Steel Columns with Biaxially Eccentric Load, Satya S. Sharma and Edwin H. Gaylord, ST12:Dec 69:2797:6960

Structural Steel Tiered Building Frames, State-of-Art Report 3, Anthony F. Nassetta, TB:73:Ia-3-465

Subassemblage Concept for Tall Frame Analysis, Graham H. Powell and M. Bassam El Hafez, ST8: Aug 74:1611:10739

Sustained Biaxial Load on Slender Concrete Columns, Robert G. Drysdale and Mark W. Huggins, ST5:May 71:1423:8103

Tangent Stiffness Method for Biaxial Bending, Sakda Santathadaporn and Wai F. Chen, ST1:Jan 72:153: 8637

Temperature Loads, State-of-Art Report 6, Lin Y. Huang, TB:73:Ib-5-97

Tests of Concrete Columns in Torsion, Ganpat S. Pandit and Manak B. Mawal, ST7:July 73:1409: 9850

Tests of Flat-Plate Corner Column-Slab Connections, E. Ramzy F. Zaghlool and H. A. Rawdon de Paiva, ST3:Mar 73:551:9616

Tests of Reinforced Concrete Flat Plate Floors, E. Ramzy F. Zaghlool, H A. Rawdon de Paiva and Peter G Glockner, ST3:Mar 70:487:7147

Three-Dimensional Inelastic Subassemblage Design, John F. Lott, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1445:8108

Torsional-Flexural Buckling of Thin-Walled Sections Under Eccentric Load, Teoman B. Pekoz and George Winter, ST5:May 69:941:6571

Torsionally Stiff Columns under Eccentric Loads, Donald R. Sherman and Donald E. Lukas, ST2:Feb 70:335:7090

Ultimate Biaxial Capacity of Boxed Steel Columns, Peter J. Marshall and John S. Ellis, ST9:Sept 70: 1873:7515

Ultimate Strength Design of Composite Columns, Horace J. Brettle, ST9:Sept 73:1931:9975

Ultimate Strength of Biaxially Loaded Steel H-Columns, Wai F. Chen and Toshio Atsuta, ST3: Mar 73:469:9613

Ultimate Strength of Laterally Loaded Columns, Le-Wu Lu and Hassan Kamalvand, ST6:June 68:1505: 6009

Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229

Upper Bounds in Complementary Energy Method, Cenap Oran, EM4:Aug 71:1093:8289

Combined Sewers

Combined Sewer Considerations by Philadelphia, Carmen F. Guarino, Joseph V. Radziul and William L. Greene, SA1:Feb 70:1:7050

Combined Sewer Overflows, Richard Field, CE:Feb 73:57

Combined Sewers and Stormwater Drainage - Today and 2050 AD, Carmen F. Guarino and Joseph V. Radziul, CWFE:Mar 71:349

Real-Time Computer Control of Urban Runoff, James J. Anderson, HY1:Jan 70:153:7028

Screening Model for Storm Water Control, Paul H. Krishen and David H. Marks, EE4:Aug 74:807: 10712

Stormwater Treatment: Four Case Histories, John A. Lager, CE:Dec 74:40

A System for Regulation of Combined Sewage Flows, Charles V. Gibbs, Stuart M. Alexander and Curtis P. Leiser, SA6:Dec 72:951:9402

Combined Stress

Hollow Tubular Beam-Columns in Biaxial Bending, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1399:8094

Combustion

Changing Crop Priorities and Drainage Requirements, John C. Nibler and Royal H. Brooks, IRS:Sept 72:25

Indirect Method of SO_2 Determination from Combustion, Thomas T. Shen, TN: EE3:June 74: 795:10571

Combustion Deposits

Residue Characterizations, Robert J. Schoenberger and Paul W. Purdom, SA3:June 69:387:6590

Comfort

Human Perception of Transient Vibrations, John F. Wiss and Richard A. Parmelee, ST4:Apr 74:773: 10495

Human Perception Thresholds of Horizontal Motion, Peter W. Chen and Leslie E. Robertson, ST8:Aug 72:1681:9142

Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811

Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165

Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701

Commerce

Commercialism in Tax-Favored Institutions, Samuel H. Clark and Raymond Lundgren, PP1:Sept 70:93: 7560

Mall Planning Strategy, Don C. Miles, BP73:Dec 73: 675

Commercial Transportation

Analysis of Need for Goods Movement Forecasts, Davit Fresko, Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017

Commodity Management

Analysis of Need for Goods Movement Forecasts, Davit Fresko, Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017

Communicating

Communications -- Introduction, M. D. Morris, CEWAU:74:95

Scientific Method-a Triad, Murray I. Mantell, PP1: July 69:47:6676

Communication

Citizen Participation: Here to Stay, Gene E. Willeke, CE:Jan 74:78

Clear Communication--Key to Professional Development, M. D. Morris, PP1:Jan 72:77:8659

Communications -- Introduction, M. D. Morris, CEWAU:74:95

Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100

Experiences with Interactive Computing System, LeRoy T. Boyer and John C. Casson, ST1:Jan 71: 289:7853

Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95

Community Development

Community Decision Structure and Urban Planning Process, Thomas J. Hillegass, Charles C. Schimpeler and William L. Grecco, UP1:Mar 70:17: 7126

Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72: 823:9319

Economics of High-Rise Buildings, State-of-Art Report 4B, Walter F. Conlin, Jr., TB:73:Ia-1-119

Transformation of Plans into Actions, Johannes W Kurz, UP2:Sept 73:183:10029

Community Relations

Chicago's Crosstown Expressway, Milton Pikarsky, CE:Sept 70:84

Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE: Sept 72:54

Goals for Dallas Program, Erik Jonsson, CE:Sept 72: 58

A Highway Administrator Looks at Community Values, J. A. Legarra and T. R. Lammers, CE:Sept 69:54

Local Sections and Social Action: How It Stands, Charles Hemming, CE:Nov 70:33

Minority Training Programs Lurch Ahead, Suzy Fisher, CE:Sept 71:68
Nader's Raiders Versus California Water Project, James H. Krieger, PP1:Jan 73:39:9490
Public Relations and Public Service Papers in the Los Angeles Section, Irvan F. Mendenhall, CE:June 69:47
Revolution in Urban Highway Planning, ASCE Committee on Highway Planning and Economics of the Highway Division, Dana E. Low, Chmn., TE1:Feb 71:145:7916
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
Students Revitalize On-Campus Lake, John G. Gonzales and Paul A. Ferrari, CE:June 71:38
Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

Compactibility
Standard Penetration Test and Relative Density, Klaus-Jurgen Melzer, 4PCSM:71:II37

Compacting
Air Permeability of Compacted Cohesive Soils, Leonard J. Langfelder, C. F. Chen and J. A. Justice, SM4:July 68:981:6040
Compaction of Slightly Organic Soils, Arley G. Franklin, Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873
Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1:May 73:217:9741
Kneading Compaction of Asphalt Beam Specimens, H. Hong, HW2:Nov 68:179:6231
Properties of Compacted Sewage Ash, Donald H. Gray, SM2:Mar 70:439:7149
Some Construction Aspects of Tarbela Dam, Morgan H. Thompson, CO3:Sept 74:247:10799
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332

Compaction
Aging Effects on Swell Potential of Compacted Clays, Gabriel Kassiff and Raphael Baker, SM3:Mar 71:529:7951
The Allowable Settlement of Structures, Hugh Q. Golder, 4PCSM:71:I171
Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908
Compaction Grouting Technique and Observations, Edward D. Graf, SM5:Sept 69:1151:6766
Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939:10170
Compaction of Sands By Repeated Shear Straining, T. Leslie Youd, SM7:July 72:709:9063
Concrete Dam Construction Using Earth Compaction Methods, Robert Williams Cannon, ECCD:72:143
Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821
Effects of Vibroflotation on Clayey Sands, Desmond L. Webb and R. Ian Hall, SM6:Nov 69:1365:6882
Effects of Vibroflotation on Clayey Sands, Desmond L. Webb and R. Ian Hall, PISST:71:393
Engineering Behavior and Structure of Compacted Clay, Laing Barden and Geoffrey R. Sides, SM4:July 70:1171:7397
Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72:361:8840
Guidelines for Compaction Control of Fill, Raymond J. Frost, TN: SM12:Dec 73:1189:10189
Implementation of Foundation Design Criteria, Joseph L. Ehasz, Jr. and M. Temchin, SDNPF:Dec 73:99
Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10:Oct 71:1431:8451
In Situ Strength of Rolled and Hydraulic Fill, Geoffrey E. Blight, SM3:May 70:881:7273
Introductory Remarks, Robert E. Philleo, ECCD:72:31
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240
New Method for Deep Sand Vibratory Compaction, Robert D. Anderson, CO1:Mar 74:79:10429
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
Planning and Performing Compaction Grouting, James Warner and Douglas R. Brown, GT6:June 74:653:10606
Pore Size Distribution Studies, Asuri Sridharan, Adolph G. Altschaeffl and Sidney Diamond, SM5:May 71:771:8151
Pore Sizes and Strength of Compacted Clay, Syed Ahmed, Charles William Lovell, Jr. and Sidney Diamond, GT4:Apr 74:407:10500
Properties of Slightly Organic Topsoils, Robert D. Holtz and Raymond J. Krizek, CO1:June 70:29:7358
Rapid Determination of Plasticity Index, Roland A. Pettitt, CE:May 71:74
Relative Density and Relative Compaction, Kenneth L. Lee and Awtar Singh, TN: SM7:July 71:1049:8264
Sand Compaction by Vibroflotation at Cape May, New Jersey, Robert J. Westberg and Herbert O. Ireland, PES:72:I-1037
Sand Compaction with Vibratory Rollers, David J. D'Appolonia, Robert V. Whitman and Elio E. D'Appolonia, SM1:Jan 69:263:6366
Sand Densification by Piles and Vibroflotation, Carl E. Basore and Joseph D. Boitano, SM6:Nov 69:1303:6892
Sand Densification by Piles and Vibroflotation, Carl E. Basore and Joseph D. Boitano, PISST:71:203
Session IV: Other Improvement Techniques (Additives, Grouting, Thermal, Electro, Vibroflotation, Blasting, Compaction, Piles), Roy E. Olson, PISST:71:91
Soil Indentation by Translating Flanged Plate, Jack L. Dais, EM4:Aug 71:1057:8285
Strength of Anisotropically Consolidated Compacted Clay, Kenneth L. Lee and Ross A. Morrison, SM6:Nov 70:2025:7703
Strength of Compacted Clay at High Pressure, Kenneth L. Lee and Steven C. Haley, SM6:Nov 68:1303:6239
Strength of Compacted Clay at High Pressure, Kenneth L. Lee and Steven C. Haley, PISST:71:345
Tensile Strength of Compacted Soils, Jagdish Narain, TN: SM6:Nov 70:2185:7646
Thixotropic Behavior of Compacted Clays, Donald H. Gray and Nouri A. Kashmeeri, SM1:Jan 71:193:7857

Compaction Equipment
Sand Densification by Piles and Vibroflotation, Carl E. Basore and Joseph D. Boitano, SM6:Nov 69:1303:6892
Sand Densification by Piles and Vibroflotation, Carl E. Basore and Joseph D. Boitano, PISST:71:203

Compaction Tests
Fly Ash as Structural Fill, Anthony M. DiGioia, Jr. and William L. Nuzzo, PO1:June 72:77:8980
A Possible 1-Point System Method For Laboratory Compaction Testing, John J. Galvan, CE:Mar 72:78

Comparative Costs
Advance in Refuse Management, Eugene E. Dallaire, CE:Aug 74:82

Comparison
Frequency Analysis of Tapered Orthotropic Plates, Jayaraman Ramachandran, EM1:Feb 72:1:8696

Compatibility

Nonlinear Sandwich Shell and Cosserat Surface Theory, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1183:9244

Compatibility Methods

Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321

Compensation

Computer Charges and Engineering Organizations, Daniel Roos, ST1:Jan 71:339:7834

Full Compensation and Transportation Corridor Analysis, Joseph R. Passonneau, TE2:May 73:393:9746

Competition

Commercialism in Tax-Favored Institutions, Samuel H. Clark and Raymond Lundgren, PP1:Sept 70:93:7560

How To Keep Concrete Dams Competitive, W. Ter Minassian and Pierre Londe, RCCD:70:395

Competitive Bidding

ASCE Signs Consent Decree on Competitive Bidding, Eugene Zwoyer, CE:July 72:37

Dsc, Bidding Procedure, Frank E. Rutt, CE:Nov 73:20

Dsc, Political Contributions, John E. Murray, CE:Nov 73:20

Complementary Energy Methods

Assured Upper Bounds via Complementary Energy, Carl H. Popelar, EM4:Aug 74:623:10704

Complementary Energy Method for Buckling of Plates, Cenap Oran, EM2:Apr 68:621:5911

Complementary Energy Method for Buckling of Arches, Cenap Oran, EM2:Apr 68:639:5912

Finite Element Plate Bending Equilibrium Analysis, Edoardo Anderheggen, EM4:Aug 69:841:6715

Multiple Configuration Analysis of Structures, Robert J. Melosh and Rein Luik, ST11:Nov 68:2581:6220

Composite Beams

Behavior of Composite-Beam to Column Joints, J. Hartley Daniels, Geoffrey D. Kroll and John W. Fisher, ST3:Mar 70:671:7173

Bonded Wood-Concrete T-Beams, George Pincus, ST10:Oct 69:2265:6842

Cellular Steel Floors Mature, Eugene E. Dallaire, CE:July 71:70

Composite Beam Incorporating Cellular Steel Decking, Hugh Robinson, ST3:Mar 69:355:6447

Composite Steel-Concrete Construction, by the Subcommittee on the State-of-the-Art Survey, of the Task Committee on Composite Construction, of the Committee on Metals, Structural Division, Ivan M. Viest, Chmn., ST5:May 74:1085:10561

Layered Beam Analysis, George W. Swift and Robert A. Heller, EM2:Apr 74:267:10484

Nonuniform Torsion of Composite Beams, Paul F. McManus and Charles G. Culver, ST6:June 69:1233:6623

Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301:9594

Composite Fabrication

Buckling of Composite Beams in Negative Bending, Sumio Hamada and Jack Longworth, ST11:Nov 74:2205:10917

Composite Materials

Analytical and Experimental Methods in Composite Mechanics, James M. Whitney, ST1:Jan 73:113:9477

Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491

Bending of Two-Layer Sandwich Plates, Jao-shiun Kao, TN: EM2:Apr 70:201:7193

Buckling of Anisotropic Composite Plates, Christos C. Chamis, ST10:Oct 69:2119:6799

Closing Materials Research Structural Design Cycle, Christos C. Chamis, EM5:Oct 69:1255:6864

Composite Steel-Concrete Construction, by the Subcommittee on the State-of-the-Art Survey, of the Task Committee on Composite Construction, of the Committee on Metals, Structural Division, Ivan M. Viest, Chmn., ST5:May 74:1085:10561

Concrete-Polymer Composites, Lawrence E. Kukacka, Peter Colombo, Meyer Steinberg and Bernard Manowitz, ST9:Sept 71:2217:8363

Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3:June 72:581:8970

Delayed Yielding of Three-Phase Epoxy Composites, Leslie J. Cohen and Ori Ishai, EM6:Dec 70:867:7732

Interaction Stresses in Composite Systems, Mohammad A. Iqbal and Edward M. Krokosky, EM6:Dec 70:825:7738

Intersecting Titanium Spheres for Deep Submersibles, George F. Leon, EM3:June 71:981:8219

Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266

Strain Rate Effects in Particulate-Filled Epoxy, Larry W. Oline and Russell Johnson, EM4:Aug 71:1159:8314

Stress Concentrations Near Holes in Laminates, Richard M. Barker, Jon R. Dana and Charles W. Pryor, Jr., EM3:June 74:477:10590

Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647

Testing and Design of Advanced Composite Materials, Edward M. Lenoe, EM6:Dec 70:809:7729

Thin Laminates with Homogeneous Elastic Properties, Joel I. Abrams and Ernest R. Scheyhing, EM6:Dec 70:847:7758

Torsion of Cylinders with Multiple Reinforcement, You-Ming Kuo and Harry D. Conway, EM2:Apr 74:221:10460

Torsion of Multilayered Rectangular Section, John R. Booker and Sritawat Kitipornchai, EM5:Oct 71:1451:8415

Yield and Failure of Glass-Epoxy Composites, Ori Ishai, Arlo E. Moehlenpah and Aaron Preis, EM5:Oct 70:739:7616

Yielding of Fiber Reinforced Tresca Material, John D. Helfinstine and Richard H. Lance, EM4:Aug 72:849:9132

Composite Structures

Axial Load Design for Concrete Filled Steel Tubes, Robert B. Knowles and Robert Park, ST10:Oct 70:2125:7597

Behavior of Composite-Beam to Column Joints, J. Hartley Daniels, Geoffrey D. Kroll and John W. Fisher, ST3:Mar 70:671:7173

Behavior of Wood-Concrete Composite Beams, George Pincus, ST10:Oct 70:2009:7592

Composite Beams in Torsion, Conrad P. Heins, Jr. and John T.C. Kuo, ST5:May 72:1105:8921

Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603

Composite Cores and Columns, Hannskarl Bandel, TB:73:Ia-3-632

Composite Steel-Concrete Construction, by the Subcommittee on the State-of-the-Art Survey, of the Task Committee on Composite Construction, of the Committee on Metals, Structural Division, Ivan M. Viest, Chmn., ST5:May 74:1085:10561

Concrete Encased Steel Columns—Design Tables, Richard W. Furlong, ST9:Sept 74:1865:10807

Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73:655:9653

Full Range Analysis of Eccentrically Stiffened Plates, Anton W. Wegmuller, ST1:Jan 74:143:10286

Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, J. F. Camellerie, TB:73:Ia-4-781

Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, EM3:June 74:599:10620

Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
Limit States of Composite Structures, Duiliu Sfintesco, TB:73:II-19-895
Load Carrying Capacity of Simple Composite Columns, J. W. Roderick and D. F. Rogers, ST2: Feb 69:209:6412
Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, Toshiharu Hisatoku and Fujio Nishikawa, TB:73:Ia-3-501
Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
Optimal Multifactor Design Procedure for Sandwich Panels, Chester P. Smolenski and Edward M. Krokosky, ST4:Apr 70:823:7243
Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848
Post-Tensioned Concrete Nuclear Structures, Glen A. Chauvin, Robert J. Small and Adolf Walser, PO3: June 70:400:7355
Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591
Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615
Prestressed Concrete Simplifies Construction of Breakwater/Wharf, C. A. Ponder and P. S. Belyea, CE:Jan 69:58
Research On Steel-Concrete Composite Beams, R. Paul Johnson, ST3:Mar 70:445:7122
Shear-Flexible Orthotropic Plates Loaded in Plane, Charles W. Bert and Shyming Chang, EM6:Dec 72: 1499:9450
Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808
Strength Factors for Composite Members, David E. Allen, TB:73:III-26-940
Strength of Concrete Filled Steel Tubular Columns, Robert B. Knowles and Robert Park, ST12:Dec 69: 2565:6936
Structural-Design Innovations in Japanese National Railways, Tatsuo Nishiki, Hidehiko Abe and Yoshio Ozaka, CE:Nov 69:60
Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Surface-Bonded Concrete-Block Panels, Herbert W. Busching, Donald H. Hamilton and James G. Goree, EM2:Apr 74:359:10493
Tallest Smoke Stack for Mitchell Plant, William W. Stelle, CE:Mar 69:44
Tests on Composite Beams with Cellular Deck, Hugh Robinson, ST4:Aug 67:139:5391
Tests on Steel-Frame, Shear-Wall Structures, Sauren N.G. Majumdar and Peter F. Adams, ST4:Apr 71: 1097:8031
Thermal Stresses and Movements in Bridges, Joseph C. Reynolds and Jack H. Emanuel, ST1:Jan 74:63: 10275
Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
Ultimate Strength Design of Composite Columns, Horace J. Brettle, ST9:Sept 73:1931:9975

Compositions
Volumetric Proportioning, Blending, and Mixing, Ralph W. Coho, Jr., SUSS:July 73:101

Composts
Compost for Agricultural Land, Cord Tietjen and Samuel A. Hart, SA2:Apr 69:269:6506

Compressed Air
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516
Pressurized-Slurry Shields Bore Submarine Tunnels, Takuya Ohira and Shunta Shiraishi, CE:May 72:55

Compressibility
Coefficient of Secondary Compression, Gholamreza Mesri, SM1:Jan 73:123:9515
Consolidation of Clay and Peat with Variable Properties, Trevor J. Poskitt, SM6:June 71:841: 8178
Effect of Sampling on Compressibility of Soft Clay, Iraj Noorany and Iraj Poormand, TN: SM12:Dec 73:1184:10189
High Pressure Experiments on Soil and Rock, Donald J. Murphy, Jr., RM13:72:691
Load Transfer in Earth and Rockfill Dams, L. Radley Squier, SM1:Jan 70:213:7004
Mechanisms Controlling Compressibility of Clays, Roy E. Olson and Gholamreza Mesri, SM6:Nov 70:1863:7649
Properties of Slightly Organic Topsoils, Robert D. Holtz and Raymond J. Krizek, CO1:June 70:29: 7358

Compression
Buckling of Clamped Rectangular Plates, Lotfi El-Bayoumy, EM4:Aug 71:1277:8336
Buckling Under Compressive and Tensile Load, Aron Zaslavsky, TN: ST10:Oct 70:2257:7572
Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73: III-23-537
Effect of Mica on K_0 Compressibility of Two Soils, Charles A. Moore, SM9:Sept 71:1275:8401
Limit Analysis of Plates Under Combined Loads, Kenneth W. Neale and Niels C. Lind, EM5:Oct 70: 711:7610
Residual Stresses and Tubular Compression Members, Donald R. Sherman, ST3:Mar 71:891: 8001
Stresses in Restrained Cylinder Under Axial Compression, Chiyyarath V. Girijavallabhan, TN: SM2:Mar 70:783:7117
Structural Concrete-Biaxial Bending and Compression, Cheng-Tzu Hsu and M. Saeed Mirza, TN: ST2:Feb 73:285:9545

Compression Ratio
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157

Compression Tests
Compression-Tests on Hoop-Reinforced Concrete, Norman F. Somes, ST7:July 70:1495:7417
Improved Compression Test Technique for Soft Rock, Edwin T. Brown and Louis P. Gonano, TN: GT2:Feb 74:196:10310
New Approach to Multistage Triaxial Test, Asuri Sridharan and Savaram Narasimha Rao, TN: SM11: Nov 72:1279:9312
Settlement of Two Tanks on Loose Cohesionless Soil, Leonard J. Langfelder and David W. Johnston, 4PCSM:71:II15
A Simple Stiff Machine for Testing Rock in Compression, William Hustrulid and Franklin Robinson, RM14:73:61
Time-Dependent Rock Behavior in Uniaxial Compression, W. R. Wawersik, RM14:73:85

Compressive Strength
Compaction of Slightly Organic Soils, Arley G. Franklin, Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873
Compression-Tests on Hoop-Reinforced Concrete, Norman F. Somes, ST7:July 70:1495:7417
Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, Emil Grasser and F. Daschner, TB:73:III-21-290
Mechanical Behavior of Rock Under Cyclic Fatigue, Bezalel C. Haimson and Chin Man Kim, RM13:72: 845
The Pressure of Floating Ice-fields on Piles, Joachim Schwarz, 12CEC:71:1523
Shape of the Complete Stress-Strain Curve for Rock, John A. Hudson, Edwin T. Brown and Charles Fairhurst, RM13:72:773

Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. Mohan Malhotra, EM2:Apr 74:305:10489

Compressive Stress

Tensile and Compressive Cyclic Stresses in Rock -- Abstract, Bezalel C. Haimson, Chin Man Kim and T. M. Tharp, RM14:73:748

Computation

Adjusting Radial Surveys, James R. Baker, SU2:Nov 72:157:9335

Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Vito A. Vanoni, Chmn., HY12: Dec 70:2417:7781

Column-Plate Interaction in Flat Slab Structures, Dieter D. Pfaffinger, ST1:Jan 72:307:8670

Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4: Apr 73:621:9643

Computer Programs for Strip Aerotriangulation, Kam W. Wong, SU1:Oct 69:71:6822

Concentrated Loads Applied to Shallow Shells, Rudolf Elling, EM2:Apr 73:319:9651

Constraint Processing in Design, Richard N. Wright, LeRoy T. Boyer and John W. Melin, ST1:Jan 71: 481:7856

Construction Self-Weight Stresses of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, ST1:Jan 71:393:7840

Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105: 9281

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3: June 72:595:8968

Cylindrical Shell Roofs with Draped Prestressing, A. H. Bryant and J. C. Scrivener, ST4:Apr 71:611: 6496

Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11: Nov 72:1969:9330

Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652

Economic Design of Low Pressure Air Piping Systems, J. Michael Osborne, EE6:Dec 74:1263: 11031

Efficient Solution of Load-Deflection Equations, Robert J. Melosh and R. M. Bamford, ST4:Apr 69: 661:6510

Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782

Elastic Analysis for Behavior of Rockfill, Neville O. Boughton, SM5:Sept 70:1715:7532

Evaluation of Segmented IUH From Derivatives, Mordechai H. Diskin, HY1:Jan 69:329:6359

Finite Dynamic Model for Infinite Media, John Lysmer and Roger L. Kuhlemeyer, EM4:Aug 69: 859:6719

Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465

Free-Surface Ideal Fluid Flows by Finite Element, Stevens T.K. Chan, Bruce E. Larock and Leonard R. Herrmann, HY6:June 73:959:9787

General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776

Gravity-Affected Flow from Planar Sluice Gatel, Bruce E. Larock, HY4:July 69:1211:6674

Guide to Development and Use of Electronic Computer Programs: Documentation, Francis E. Swain, ST9:Sept 69:1825:6760

Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172

Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788

Large Eigenvalue Problems in Dynamic Analysis, Klaus-Jurgen Bathe and Edward L. Wilson, EM6: Dec 72:1471:9433

Limit Analysis of Plane Problems in Soil Mechanics, John Lysmer, SM4:July 70:1311:7416

Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933

Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094

Model of Natural Draft Cooling Tower Performance, Lawrence D. Winiarski and Bruce A. Tichenor, SA4:Aug 70:927:7461

Natural Frequencies of Circular Arches, Joseph A. Wolf, Jr., ST9:Sept 71:2337:8393

Nonlinear Equation of Unsteady Ground-Water Flow, John C. Bruch, Jr., HY3:Mar 73:395:9589

Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357

Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300

Numerical Error in Structural Solutions, John R. Roy, ST4:Apr 71:1039:8036

Optimal Design for Prescribed Buckling Loads, Kalayya Narayana Murthy and Paul P. Christiano, ST11:Nov 74:2175:10912

Optimization of Long-Span Cold-Formed Truss Purlins, Richard T. Douty and James O. Crooker, ST11:Nov 74:2275:10952

Plastic Design of Multistory Frames by Computer, George C. Driscoll, Jr., James O. Armacost, III and William C. Hansell, ST1:Jan 70:17:6995

Plastic Design of Multistory Steel Frames by Computer, Leroy Z. Emkin and William A. Litle, ST1:Nov 70:2373:7689

Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323

Procedure for Automating Aircraft Wing Structural Design, Gary L. Giles, ST1:Jan 71:99:7821

Scale and Boundary Effects in Foundation Analysis, James Graham and John Gordon Stuart, SM11:Nov 71:1533:8510

Sequential Deterministic Optimization in Reservoir Operation, Thomas E. Croley, II, HY3:Mar 74:443: 10426

Sequential Stochastic Optimization for Reservoir System, Thomas E. Croley, II, HY1:Jan 74:201: 10263

Solar Astronavigation in High Latitudes, Gerald W. Johnson and James L. Clapp, SU1:May 71:27:8139

Stress Analysis of Contractive or Dilative Soil, Ian M. Smith and Stephen Kay, SM7:July 71:981:8263

Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141: 8738

Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72: 1087:9260

Three-Dimensional Forward and Inverse Computations, William E. Ball, Jr., SU2:Nov 72: 167:9361

Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Wind-Induced Circulation in Shallow Water, Henry Liu and Himerio J. Perez, HY7:July 71:923:8235

Computer Applications

Analysis and Design of Nuclear Power Plant Structures, Peter K. Ho and Milomir Stoykovich, SDNPF:Dec 73:365

Analysis of Natural Roughness Profiles, Chesley J. Posey, TN: SM11:Nov 72:2065:9311

Analysis of Undrained Behavior of Loads on Clay, Richard M. Simon, John T. Christian and Charles C. Ladd, GT74:June 74:51

Automated Formulation of Condition Equations, Frank J. Hatfield, TN: SU1:Sept 73:151:10017

Automated Structural Analysis: An Introduction, by William R. Spillers (Book Review), Paul Weidlinger, CE:Apr 72:6

Behavior of Prestressed Cable Truss Structures, Dwight E. Urelius and David W. Fowler, ST8:Aug 74:1627:10747

Capital Cost Minimization of Drainage Networks, Jarir S. Dajani and Yakir Hasit, EE2:Apr 74:325: 10448

Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4: Apr 73:621:9643

Computer Analysis for Slender Concrete Columns, John Gaughan, ST10:Oct 74:2123:10894

Computer Analysis of Flow toward Artesian Wells, Yang H. Huang, TN: HY9:Sept 71:1579:8349

Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39: 10015

Computer Control and Data Acquisition of a Tidal Model, E. R. Funke, CE13:72:III-2387

Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31

Computer Studies of Estuary Water Quality, Donald O. Hodgins and Michael C. Quick, CE13:72:III-2317

Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60

Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269

Drafting Transformed by Plotter, Computer and Digitizer, Kenneth W. Nonnenman, CE:Feb 74:48

Drainage System Design and Analysis by Computer, Dean M. Renner and Charles C. Mueller, IR3:Sept 74:255:10801

Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421

Engineering Computer Program Documentation Standards, G. Andrew Reti, Chmn., SM3:Mar 73: 249:9614

Estimating Travel Times on Highway Networks, Joseph M. Sussman, Ho-Kwan Wong and Roger Miller, TE1:Feb 74:13:10335

Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849

Flow Simulation System, Richard F. Lanyon and James Jackson, HY8:Aug 74:1089:10743

Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2: Dec 71:149:8568

Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29

Half Frame Method, Bernardo J. Deschapelles, TB: 73:II-16-591

Hybrid Computer Analysis of Seam Extraction -- Abstract, M. P. Hardy, S. L. Crouch and Charles Fairhurst, RM14:73:749

Inversion of Mercator Coordinates, Erwin Schmid, TN: SU2:Nov 72:243:9385

Irrigation Scheduling on the Minidoka Project, Idaho, Jerry F. Buchheim, OIDS:72:539

Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796

Load Balancing Analysis of Cable Stayed Bridges, Benjamin E. Lazar, Michael S. Troitsky and Matthew McC. Douglass, ST8:Aug 72:1725:9122

Mathematical Model of Single Pile, Noel J. Gardner and Roy Sage, TN: GT9:Sept 74:1081:10774

Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1: Feb 73:201:9576

New Criterion for Resource Scheduling, E. M. Davies, TE4:Nov 73:741:10118

New Directions and Techniques in Highway Location Planning, Stanley L. Peters, TE2:May 74: 305:10518

New Equipment for Field Measurement of Water Surface Waves, Ake Sandstrom, WAVES:Sept 74: 272

New Methods in Construction Systems, R. Richard LeVitt, CO3:Sept 74:211:10788

Nonlinear Bending of Bars, Imamuddin Khwaja, TN: EM1:Feb 71:137:7858

Observations of Waves in the North Pacific, Lawrence H. Larsen and Douglas R. Fenton, WAVES:Sept 74:197

On Adaptive Structural Design, William R. Spillers and Lewis Friedland, ST10:Oct 72:2155:9245

Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403

Performance of Briones Dam, Walter F. Anton and David J. Dayton, PES:72:I-853

Period by the Wave Group Method, Warren C. Thompson, CE13:72:I-197

Process Control Computers For Educational Exercises, Charles A. Moore, TN: SM5:May 72: 517:8865

The Programmable Calculator: A Place In Civil Engineering, Eugene E. Dallaire, CE:Feb 72:70

Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44

Rainfall Excess Model from Soil Water Flow Theory, Roger E. Smith and Donald L. Chery, Jr., HY9: Sept 73:1337:9990

Recording Inclinometer for Measuring Soil Movement, Leslie G. Bromwell, Christopher R. Ryan and William E. Toth, 4PCSM:71:II333

Requirements of Construction Company Cost System, Paul Teicholz, CO3:Sept 74:255:10786

Researches on the Deformation of Wave Spectra in Intermediate Water Area by Calculation, Frederick L.W. Tang and Shan-Hwei Ou, CE13:72:I-271

Response of Suspended Boilers to Earthquake Motions, James C. Anderson, Ramachandran Srinivasan and Robert J. Small, EPCE:Aug 74:363

Response of Viscoelastically Restrained Beam, Frank A. Moughton, ST7:July 73:1607:9869

Schedule Planning and Timetable Construction for Commuter Railroad Operations, Edward K. Morlok and Hugo L. Vandersypen, TE3:Aug 73:627:9922

Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321

Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549

Subsurfqce Drainage Solutions by Galerkin's Method, Purushottam Dass and Hubert J. Morel-Seytoux, IR1:Mar 74:1:10397

Tall Buildings Bibliography, Gerard F. Fox, TB:73:C-AC10-39

Tall Buildings: Computerized Bibliography, Committee on Bibliography, TB:73:C-AC10-47

Tall Buildings: Preliminary Bibliography, Committee on Bibliography, TB:73:C-AC10-41

Technical Information Retrieval, Harold W. Conner and J. Nieves, CE:Nov 69:47

A Teleprocess System: The Spanish Offshore Network, L. Tejedor, WAVES:Sept 74:186

Wave Analysis System for the Breaker Zone, William L. Wood, WAVES:Sept 74:774

Wave Measuring Instrumentation for Field Investigations on Breakers, Alfred Fuhrboter and Fritz Busching, WAVES:Sept 74:649

Computerized Simulation

Compilation of Ocean and Lake Wave Statistics, John Simpson Hale, 12CEC:71:217

Earthquake-proof Design Gives Rise to First Japanese Skyscrapere, Kiyoshi Muto, CE:Mar 71:49

Estimating Costs of Earthwork via Simulation, Jack H. Willenbrock, CO1:Mar 72:49:8763

Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661

Shoaling of Finite-Amplitude Waves on Plane Beaches, Robert K. C. Chan and Robert L. Street, 12CEC:71:345

Statistical Reliability of Computations Based on Wave Spectral Relations, Leon Emry Borgman, WAVES:Sept 74:362

Computer Logic

Computers in Flood Control Planning, L. Douglas James, HY6:Nov 69:1859:6886

Fire Intensity-Resistance Evaluation, Edward M. Krokosky, ST11:Nov 70:2501:7706

Computer Models

Analysis of Hurricane Tides at Padre Island, Texas, Frank D. Masch, Robert J. Brandes, Floyd R. Hill and William A. White, 12CEC:71:2031
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
Computerized Residential Refuse Districting, Geoffrey N. Berlin, UP2:Nov 74:173:10916
Computer Modelling of a Coniferous Forest Watershed, George B. Shih, Richard H. Hawkins and Melvin D. Chambers, IRS:Sept 72:433
Computer Modelling of Diffraction of Wind Waves, Per Moller Bruun and Leon Emry Borgman, 12CEC:71:473
Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Conservation of Energy in Buildings, Vance L. Sailor, CO3:Sept 74:295:10795
Economic Impact of the Conversion of Water from Irrigation to Municipal and Industrial Use in the Rio Grande Basin of New Mexico, Edwin A. Lewis, IR73:Aug 73:67
Groundwater Model as a Tool in Planning and Management, Robert W. Charley, Edwin V. Lance and G. Morgan Powell, IR73:Aug 73:251
Responsibilities of Computer-Aided Design, Charles F. Beck, CE:June 72:58
Traffic Analysis for Airport Asphaltic Pavements, William A. Wild, Everett C. Carter, Jerome W. Hall and Matthew W. Witczak, TE4:Nov 74:873:10927
Transportation Planning for Urban School Systems, Patrick R. Pickens and John M. Tyler, TE2:May 74:461:10555
Using Technology to Solve Environmental Problems, Ernest T. Smerdon and Robert B. Gaither, EI4:Oct 74:273:10847
Water Quality Simulation Model, George R. Grantham, John C. Schaake, Jr. and Edwin E. Pyatt, SA5:Oct 71:569:8429

Computer Programming

Beams on Discrete, Nonlinear Elastic Supports, Aylmer P. Cheng and Howard L. Furr, ST11:Nov 69:2335:6873
Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
Computer Use in Civil Engineering, Robert L. Schiffman and E. Rex Krueger, PP2:Apr 72:251:8834
Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6:Dec 72:1547:9435
Engineering Computer Program Documentation Standards, G. Andrew Reti, Chmn., SM3:Mar 73:249:9614
Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202
Euler Beams on a Two Parameter Foundation Model, Milton E. Harr, John L. Davidson, Da-Min Ho, Luis E. Pombo, S. V. Ramaswamy and John C. Rosner, SM4:July 69:933:6651
Irrotational Flow with Irregular Boundary Shapes, Albert G. Mercer, HY8:Aug 73:1209:9937
Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131
Natural Frequency on Programmable Calculator, Michael J. O'Rourke, TN: ST10:Oct 74:2169:10858
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44
Responsibilities of Computer-Aided Design, Charles F. Beck, CE:June 72:58
Scenario for a Third Computer Revolution in Structural Engineering, Steven J. Fenves, ST1:Jan 71:3:7812
Sources of Computer Programs, Kneeland A. Godfrey, Jr., CE:June 74:51
Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141:8738

Computer Programs

Analysis of Curved Girder Bridges, Lansford C Bell and Conrad P Heins, Jr., ST8:Aug 70:1657:7462
Analysis of Multibeam Bridges, Graham H. Powell, Amitava Ghose and Ian G. Buckle, ST9:Sept 69:1953:6796
Analytically Derived Unit Graph and Runoff, Roger P. Betson and Ralph F. Green, HY6:Nov 68:1489:6256
Automatic Generation of Finite Element Matrices, Rene W. Luft, Jose M. Roesset and Jerome J. Connor, EC5:70:573
Automatic Generation of Finite Element Matrices, Rene W. Luft, Jose M. Roesset and Jerome J. Connor, ST1:Jan 71:349:7841
BUILD-An Integrated System for Building Design, Lavette C. Teague, Jr. and Alan M. Hershdorfer, ST4:Apr 68:983:5901
Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
Column-Supported Shear Walls With Openings, L. Cerny, TB:73:III-21-282
Comparison of Analytical Relative-Orientation Methods, Santosh K. Mahajan and Singh Vijay, SU1:July 72:73:9056
Computational Procedures For Flow Resistance Laws, Alan A. Smith, HY3:Mar 70:665:7142
Computer-Aided Processing of Design Specifications, Surendra K. Goel and Steven J. Fenves, ST1:Jan 71:463:7839
Computer-Aided Processing of Structural Design Specifications, Surendra K. Goel and Steven J. Fenves, EC5:70:763
Computer Aids Draftsmen in Soil Profiles and Analysis, George Kisak and B. James Greenfield, CE:Feb 71:67
Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, Chan F. Lam and M. L. Wolla, HY3:Mar 72:447:8782
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5:May 72:1119:8916
Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547
Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626
Computer Programs for Strip Aerotriangulation, Kam W. Wong, SU1:Oct 69:71:6822
Computer Program System for Aerotriangulation, Kam W. Wong and G. Elphingstone, SU2:Nov 72:219:9322
Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Computers: Key to Integrated Building Design, Kenneth F. Reinschmidt, CE:Mar 72:74
Computer Studies of Estuary Water Quality, Donald O. Hodgins and Michael C. Quick, CE13:72:III-2317
Constraint Processing In Design, Richard N. Wright, Leroy T. Boyer and John W. Melin, EC5:70:801
Construction Self-Weight Stresses Of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, EC5:70:645
Delaware River Basin Modeling, Lewis G. Hulman and David K. Ericson, HY1:Jan 72:105:8668
Demand Responsive Transportation Systemp, Daniel Roos, UTI:71:123
Designing Computer Programs for Bridge Foundations, E. F. Roberts and M. Lohrmann, CE:Dec 71:64
Digital Program for Water Network Analysis, Roger P. Donachie, HY3:Mar 74:393:10424

Discrete-Element Analysis for Discontinuous Plates, William Ronald Hudson and Hudson Matlock, ST10:Oct 68:2267:6157
Dynamic Buckling of Cylindrical Shell, Charles C. Cromer and Robert E. Ball, EM3:June 71:657:8187
The Dynamics of a Coast with a Groyne System, W. T. Bakker, E. H.J. Klein Breteler and A. Ro[illegible], 12CEC:71:1001
Experiences With An Interactive Computing System, Leroy T. Boyer and John C. Casson, EC5:70:467
Finite Element Methods for the Nonlinear and Time-Dependent Analysis of Geotechnical Problems, Chin-Yung Chang, Keshavan Nair and Ram D. Singh, GT74:June 74:269
Finite Element Thermoelastoplastic Analysis, Norman A. Cyr, Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068
Finite Strip Method Analysis of Elastic Slabs, Yau-Kai Cheung, EM6:Dec 68:1365:6267
Flushing Pattern of Non-reactive Effluents, Adel M. Kamel, 12CEC:71:1867
Fortran-Hydro, Jacques W. Delleur and Gerrit H. Toebes, HY6:Nov 69:1993:6901
Geodetic Computations by Electronic Computer, Gerald F. Clohecy, SU1:May 71:97:8105
Grid Moment Maximization by Mathematical Programming, Francois N. Ayer and C. Allin Cornell, ST2:Feb 68:529:5818
Guide to Development and Use of Electronic Computer Programs: Documentation, Francis E. Swain, ST9:Sept 69:1825:6760
Information Utilization in Project Planning, Donald E. Kawal, CO2:Nov 71:227:8505
Man-Oriented Program System For Engineering Design, George Rabe and Vincent A. Trossello, EC5:70:353
Mekong Delta Mathematical Model Program Construction, Dino Zanobetti, Henri Lorgere, Alexandre Preissmann and Jean Andre Cunge, WW2:May 70:181:7259
Minimum Weight Design Of Light Gage Steel Members, Paul A. Seaburg and Charles G. Salmon, EC5:70:319
Natural Frequency on Programmable Calculator, Michael J. O'Rourke, TN: ST10:Oct 74:2169:10858
Numerical Method of Computing Flow Profiles, Ramanand Prasad, HY1:Jan 70:75:7005
A Numerical Technique for Elastica Problems, John V. Huddleston, EM5:Oct 68:1159:6182
Offsets to Sight Obstructions Near the Ends of Horizontal Curves, William L. Raymond, Jr., CE: Jan 72:71
On Discrete Structural Optimization, Kenneth F. Reinschmidt, EC5:70:189
Optimum Design of Truss Structures For Ultimate Loads, William S. LaPay and George G. Goble, EC5:70:223
Optimum Housing Allocation Model for Urban Areas, R. S. Atkins and Edward M. Krokosky, UP1:Apr 71:41:8022
Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722
Plastic Design of Multistory Steel Frames by Computer, Leroy Z. Emkin and William A. Litle, ST1:Nov 70:2373:7689
A Procedure For Automating Aircraft Wing Structural Design, Gary L. Giles, EC5:70:125
Procedure for Automating Aircraft Wing Structural Design, Gary L. Giles, ST1:Jan 71:99:7821
Remote Terminal Cost Estimating, Robert C. Volkman and LeRoy T. Boyer, CO1:Mar 72:1:8756
Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
Scenario For A Third Computer Revolution In Structural Engineering, Steven J. Fenves, EC5:70:829
Sources of Computer Programs, Kneeland A. Godfrey, Jr., CE:June 74:51
Specs - A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, EC5:70:707
Specs-A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, ST1:Jan 71:425:7844
Stability of Discontinuous Rock Masses Under Polyaxial Stress Systems, Peter B. Attewell and John P. Woodman, RM13:72:665
Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72:327:8675
Structural and Foundation Computer-Based Design, Richard F. Harig and Daniel J. McDermott, ST1:Jan 71:315:7843
Structural Design of Concrete Pavement by Computer, Cloyd E. Warnes, TE1:Feb 72:1:8698
Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069
A Systems Analysis Method For Pavement Structures, William Ronald Hudson, B. Frank McCullough and Frank H. Scrivner, EC5:70:95

Computers
Abnormality Detection in Simulated Arterial Systems, Marlyn E. Clark, Giovanni F. Ayala and Samuel L. Hawkes, EM5:Oct 69:1189:6854
Algorithm For Adjusting Stream Stage Records, William C. Mills and Willard M. Snyder, IR1:Mar 71:51:7955
Algorithm for Matrix Bandwidth Reduction, Henry R. Grooms, ST1:Jan 72:203:8636
Analysis of Cable-Stayed Girder Bridges, Man-Chung Tang, ST5:May 71:1481:8116
Analysis of Frames with Partial Connection Rigidity, Karl M. Romstad and Chittoor V. Subramanian, ST11:Nov 70:2283:7664
Analysis of Plane Prestressed Cable Structures, H. Mollmann, ST10:Oct 70:2059:7598
Analysis of Structures by Quadratic Programming, Mehdi S. Zarghamee, EM5:Oct 71:1495:8431
Analysis of Unbraced Multistory Steel Rigid Frames, E. Whitman Wright and Edwin H. Gaylord, ST5:May 68:1143:5944
Analytical Model for Prediction of Ice-Structure Interaction, Hudson Matlock, William P. Dawkins and John J. Panak, EM4:Aug 71:1083:8282
Analytical Study of Tubular Tee-Joints, Alexander C. Scordelis and Jack G. Bouwkamp, ST1:Jan 70:65:7016
Application of Computers to Airport Planning and Design, Rufus C. Phillips, III, TE3:Aug 70:341:7472
Arch Dam Layout Facilitated by Use of Computer, Alfred L. Parme, PO2:Oct 67:69:5523
Automated Design Of Statically Indeterminate Frames, Dag Kavlie and Johannes Moe, EC5:70:27
Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795
Automated Optimum Design From Discrete Components, Aldo Cella and Robert D. Logcher, EC5:70:259
Automatic Design Of Shell Structures, Peter G. Smith and Edward L. Wilson, EC5:70:289
Automatic Drafting System Aids Wisconsin Bridge Design, Leon J. Schuchardt, CE:Feb 70:38
Automatic Generation of Finite Element Matrices, Rene W. Luft, Jose M. Roesset and Jerome J. Connor, ST1:Jan 71:349:7841
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
Charting New Transportation Environment, John A. Osborn, SU2:Sept 70:265:7565
Comprehensive Unified Land Data System, Robert N. Cook, SU1:Oct 69:103:6851
Computation of Oil Pipeline Transients, Michel Kaplan, Victor L. Streeter and E. Benjamin Wylie, PL3:Nov 67:59:5608
Computation of Open-Channel Surges and Shocks, George Terzidis and Theodor S. Strelkoff, HY12:Dec 70:2581:7780
Computer-Aided Processing of Design Specifications, Surendra K. Goel and Steven J. Fenves, ST1:Jan 71:463:7839

Computer-Aided Processing of Structural Design Specifications, Surendra K. Goel and Steven J. Fenves, EC5:70:763

Computer Aids Draftsmen in Soil Profiles and Analysis, George Kisak and B. James Greenfield, CE:Feb 71:67

Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570

Computer Analysis of Buckling of Imperfect Shells, Robert E. Ball and Bruce A. Ryan, ST10:Oct 73:2097:10072

Computer Analysis of Large Linear Frames, William D. Whetstone, ST11:Nov 69:2401:6897

Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578

Computer Charges and Engineering Organizations, Daniel Roos, EC5:70:559

Computer Charges and Engineering Organizations, Daniel Roos, ST1:Jan 71:339:7834

Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Computer Design of CMAS Systems, Daniel W. Smith, SA4:Aug 70:977:7474

Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5:May 72:1119:8916

Computer Determination of Flow Through Bridges, Bill S. Eichert and John Peters, HY7:July 70:1455:7412

Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31

Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547

Computer Model for a Lock Manifold System, James S. Windsor and Herman Vallee, WW2:May 69:149:6553

Computer Plotted Prestressed Concrete Design Charts, Leonard Rice, ST3:Mar 71:863:7993

Computer Programs for Strip Aerotriangulation, Kam W. Wong, SU1:Oct 69:71:6822

Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216

Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1:Feb 73:53:9518

Computer Simulation of Unsteady Flows in Waterways, Robert A. Baltzer and Chintu Lai, HY4:July 68:1083:6048

Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104

The Computer's Role in Transmission Line Design, Charles F. Beck, EC5:70:63

Computer's Role in Transmission Line Design, Charles F. Beck, ST1:Jan 71:63:7817

Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, Kenneth F. Reinschmidt, TB:73:C-AC31-159

Computer Technology in New Line and Relocation Planning, R. A. Stane, TE3:Aug 70:291:7458

Computer Use in Civil Engineering, Robert L. Schiffman and E. Rex Krueger, PP2:Apr 72:251:8834

Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60

Concepts and Utilities of Ecologic Model, Carl W. Chen, SA5:Oct 70:1085:7602

Conditioning of Structural Flexibility Matrix, Charles H. Goodspeed and Michael J. Martin, ST8:Aug 74:1677:10763

Constraint Processing In Design, Richard N. Wright, Leroy T. Boyer and John W. Melin, EC5:70:801

Construction Management Game-Deterministic Model, Tung Au, Richard L. Bostleman and Ernest W. Parti, CO1:July 69:25:6647

Construction Self-Weight Stresses Of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, EC5:70:645

Control of Transient Free-Surface Flow, E. Benjamin Wylie, HY1:Jan 69:347:6360

Coordinated Mapping Program Saves Money for County, Ivan F. Gennis and Joseph P. Allesandri, CE:Dec 73:45

Cost-Effective Matching of Task and Computing Device, Ralph E. Miller, Jr. and John McCaslin, EC5:70:543

Cost-Effective Matching of Task and Computing Device, Ralph E. Miller, Jr. and John McCaslin, ST1:Jan 71:329:7854

Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774

Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925

Design of Optimal Hydraulic Networks, Shmuel L.S. Jacoby, HY3:May 68:641:5930

Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050

Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547:9117

Discrete Structural Optimization, Kenneth F. Reinschmidt, ST1:Jan 71:133:7829

Double-Mass Analysis on the Computer, Rameshwar Singh, HY1:Jan 68:139:5729

Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824

Dynamic Analysis of Multibay Multistory Frames, Masaaki Suko and Peter F. Adams, ST10:Oct 71:2519:8443

Dynamic Response of Frames with Nonrigid Connections, Steve R. Lionberger and William Weaver, Jr., EM1:Feb 69:95:6393

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344

Econometric Model to Aid in Urban Planning Decisions, A. F. Brotchie, Ron Sharpe and A. Raymond Toakley, UP1:Mar 73:25:9587

Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336

Efficient Code for Steady-State Flows in Networks, Robert Epp and Alvin G. Fowler, HY1:Jan 70:43:7002

Efficient Reanalysis of Modified Structures, EC5:70:619

Efficient Reanalysis of Modified Structurei, Dag Kavlie and Graham H. Powell, ST1:Jan 71:377:7846

Efficient Solutions for Linear Matrix Equations, H. Gordon Jensen and Gary A. Parks, ST1:Jan 70:49:7007

Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782

Elastic Lateral Buckling of Steel Beam, Graham H. Powell and Richard Klingner, ST9:Sept 70:1919:7555

Elasto-Plastic Analysis of Ribbed Plates, Harvey A. Kagan and G. G. Kubo, ST4:Apr 68:943:5892

Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46

Engineer versus Computer Strategy of Persuasion, Earl Rogers, PP1:July 69:9:6654

Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852

Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849

Experiences With An Interactive Computing System, Leroy T. Boyer and John C. Casson, EC5:70:467

Experiences with Interactive Computing System, LeRoy T. Boyer and John C. Casson, ST1:Jan 71:289:7853

Experience With A Pol Environment, Edward L. Murphree and John W. Melin, EC5:70:489

Experience with POL Environment, Edward L. Murphree and John W. Melin, ST1:Jan 71:301:7835

Fifty Years in Surveying-Mapping-and the Future, George D. Whitmore, SU1:Oct 69:143:6860

Finite-Difference Simulation of Bore Propagation, C. Samuel Martin and Jerome J. Zovne, HY7:July 71:993:8234

Finite Element Analysis Of Hyperbolic Paraboloid Shells, Semih S. Tezcan, Krishna M. Agrawal and George Kostro, EC5:70:675

Finite Element Analysis of Plywood Plates, John McGlenn and Billy J. Hartz, ST2:Feb 68:551:5821

Finite Element Analysis of Reinforced Concrete Slabs, Jan C. Jofriet and Gregory M. McNeice, ST3:Mar 71:785:7963

Finite-Element Analysis of Seepage Through Dams, W. D. Liam Finn, SM6:Nov 67:41:5552

Finite Element Analysis of Slabs on Elastic Solids, Yang H. Huang, TE2:May 74:403:10535

Finite Element Method Applied to Some Problems in Soil Mechanics, Chiyyarath V. Girijavallabhan and Lymon C. Reese, SM2:Mar 68:473:5864

Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773

Flowgraph Analysis of Pipeline Networks, Thorleif Enger and Chuan C. Feng, HY10:Oct 71:1607:8404

Flow in Open Channels with Smooth Curved Boundaries, Mohammad S. Moayeri, HY12:Dec 73:2217:10194

Flow Simulation System, Richard F. Lanyon and James Jackson, HY8:Aug 74:1089:10743

Formulation Of Decision Logic Tables, Jimmy L. Noland and Chuan C. Feng, EC5:70:731

Formulation of Decision Logic Tables, Jimmy L. Noland and Chuan C. Feng, ST1:Jan 71:439:7855

Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834

Four-Point Method of Characteristics, Michael B. Abbott and Adrianus Verwey, HY12:Dec 70:2549:7763

Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261

Graph-Theoretic Models for Pipe Network Analysis, H. K. Kesavan and M. Chandrashekar, HY2:Feb 72:345:8709

Guide to Development and Use of Electronic Computer Programs: Documentation, Francis E. Swain, ST9:Sept 69:1825:6760

Hurricane Surge Computations by Computer, Alan N. Sirkin, WW2:May 70:467:7299

Hydrograph Synthesis by Digital Computer, Michael D. Hudlow and Robert A. Clark, HY3:May 69:839:6555

Hydrologic Simulation Procedures As Applied To Vegetation Management, George Fleming, SEA:70:269

Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132

Industry Continuing Engineering Education, Vincent J. Vitagliano, CEE:Feb 74:1-868

Inelastic Analysis of Suspension Roof Structures, Donald P. Greenberg, ST5:May 70:905:7284

Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957

Inelastic Response of Frames to Dynamic Loads, Donald G. Toridis and Khalilollah Khozeimeh, EM3:June 71:847:8205

Influence Surfaces for Continuous Plates, Richard E. Woodring and Chester D. Seiss, ST1:Jan 68:211:5755

Integral Equation Method for a Corner Plate, Cecil M. Segedin and D. Brickell, ST1:Jan 68:41:5711

An Integrated System For RC Building Design, John M. Biggs, Peter J. Pahl and Harry N. Wenke, EC5:70:1

Integrated System For RC Building Design, John M. Biggs, Peter J. Pahl and Harry N. Wenke, ST1:Jan 71:13:7816

Interactive Graphics In Civil Engineering Design, Richard T. Douty and Sidney Shore, EC5:70:439

Interactive Graphics: Settlement and Slope Stability, Robert L. Schiffman and Jack R. Stein, ST1:Jan 71:253:7832

Interactive Graphics: Settlement & Slope Stability, Robert L. Schiffman and Jack R. Stein, EC5:70:407

Interpretation of Multispectral Remote Sensor Data, Albert N. Williamson, SU2:Nov 74:143:10948

Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711

Labor Cost Control, Paul Teicholz, CO4:Dec 74:561:11020

Laminar and Turbulent Overland Flow Hydrographs, James R. Morgali, HY2:Feb 70:441:7069

Large Eigenvalue Problems in Dynamic Analysis, Klaus-Jurgen Bathe and Edward L. Wilson, EM6:Dec 72:1471:9433

Lateral Loads in Asymmetric Multistory Structures, Arnold Winokur and Jacob Gluck, ST3:Mar 68:645:5842

Lindenwold Line: A Model for Rail Rapid Transit, Eugene E. Dallaire, CE:Sept 70:90

Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275:9204

Man-Oriented Program System For Engineering Design, George Rabe and Vincent A. Trossello, EC5:70:353

Man-Oriented Program System for Engineering, George Rabe and Vincent A. Trossello, ST1:Jan 71:223:7850

Mapping for Changing Environment, Morris M. Thompson, SU1:Oct 69:35:6818

Markov Models for Flow Regulation, Moshe Gablinger and Daniel P. Loucks, HY1:Jan 70:165:7031

Mathematical Model For Water Distribution Systems, Mehdi S. Zarghamee, HY1:Jan 71:1:7797

Mathematical Tidal Study of St. Lawrence River, J. William Kamphuis, HY3:Mar 70:643:7141

Metropolitan Toronto Traffic Surveillance and Control System, J. T. Hewton, CE:Feb 69:40

Minimum Weight Design Of Light Gage Steel Members, Paul A. Seaburg and Charles G. Salmon, EC5:70:319

Minimum Weight Design with Stability Constraint, Mehdi S. Zarghamee, ST8:Aug 70:1697:7486

Monte Carlo Study of Structural Safety, Robert F. Warner and A. P. Kabaila, ST12:Dec 68:2847:6275

Nonlinear Analysis of Pin-Jointed Space Trusses, Marcelo Epstein and Yair Tene, ST9:Sept 71:2189:8357

Nonlinear Dynamic Analysis of Frames with Filler Panels, Garrison Kost, William Weaver, Jr. and Russell B. Barber, ST4:Apr 74:743:10481

Nonlinear Earthquake Behavior of Tall Buildings, Ray W. Clough and Kalmar L. Benuska, EM3:June 67:129:5292

Nonlinear Field Analysis of Structural Nets, R. Richard Avent, ST5:May 69:889:6556

Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093

Numerical Method of Computing Flow Profiles, Ramanand Prasad, HY1:Jan 70:75:7005

Numerical Solution of Filtration Equations, Arun K. Deb, SA2:Apr 70:195:7199

On Discrete Structural Optimization, Kenneth F. Reinschmidt, EC5:70:189

On the Applications of ICES and Universal Program Software Systems, Louis H. Klotz, CE:Feb 69:72

OPBID: Competitive Bidding Strategy Model, Thomas L. Morin and Richard H. Clough, CO1:July 69:85:6690

Open-Channel Simulation by Digital Computer, C. Samuel Martin and Frank G. De Fazio, HY6:Nov 69:2049:6911

Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199

Optimal Multifunctional Material Systems, Edward M. Krokosky, EM2:Apr 71:559:8077

Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972

Optimization in Design of Hydraulic Network, Arun K. Deb and Asok K. Sarkar, SA2:Apr 71:141:8032

Optimization of Circulating Water System, R. S. Gupta and Bruce R. Webber, PO1:May 73:235: 9756

Optimum Design of Trusses for Ultimate Loads, William S. LaPay and George G. Goble, ST1:Jan 71:157:7838

Optimum Design of Truss Structures For Ultimate Loads, William S. LaPay and George G. Goble, EC5:70:223

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4: Aug 72:891:9091

Optimum Life of Equipment for Maximum Profit, James Douglas, CO1:Jan 68:41:5745

Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176

Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72: 1697:9154

A Parallel Processing Approach To Bridge Planning, Andrew K.C. Wong and Tung Au, EC5:70:155

Parallel Processing Approach to Bridge Planning, Andrew K.C. Wong and Tung Au, ST1:Jan 71:115: 7822

P-delta and Axial Column Deformation in Aseismic Frames, Subhash C. Goel, ST8:Aug 69:1693:6738

Photogrammetry for Right-of-Way Acquisitions, Edward H. Sokolowski, SU1:Jan 68:49:5735

Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183

Post-Tensioned Concrete Nuclear Structures, Glen A. Chauvin, Robert J. Small and Adolf Walser, PO3: June 70:400:7355

Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680

Power and Energy Study of Hydroelectric Plants, Peri Z. Valvis and Miltos Th. Mathioudis, PO2:Mar 71:567:8003

Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939

A Procedure For Automating Aircraft Wing Structural Design, Gary L. Giles, EC5:70:125

Process Control Computers For Educational Exercises, Charles A. Moore, TN: SM5:May 72: 517:8865

Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44

Programming for Pavlovsky's Ground-Water Problem, George T. Papadopoulos and Joakim G. Laguros, IR1:Mar 68:49:5840

Project Planning and Control by Time-Sharing Computer, Norman L. Scott and Edward L. Murphree, CO1:Mar 72:37:8758

Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830

Rational 'Rational' Method of Storm Drainage Design, Richard A. Rogers, IR4:Dec 68:465:6301

Real-Time Computer Control of Urban Runoff, James J. Anderson, HY1:Jan 70:153:7028

Recent Approaches for Trickling Filter Design, John M. Baker and Quintin B. Graves, SA1:Feb 68:65: 5798

Regional Control Supplied by Photogrammetry, G. Carper Tewinkel, SU1:May 71:13:8136

Reliability Analysis of Frame Structures, John D. Stevenson and Fred Moses, ST11:Nov 70:2409: 7692

Repair of 7-Story Bearing Wall, Russell S Fling, CO1:July 69:39:6669

Reservoir System Design Optimization, Richard J. Butsch, HY1:Jan 70:125:7023

Scenario For A Third Computer Revolution In Structural Engineering, Steven J. Fenves, EC5:70: 829

Scheduling Irrigations Using Climate-Crop-Soil Data, Marvin E. Jensen, David C.N. Robb and C. Eugene Franzoy, IR1:Mar 70:25:7131

Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215: 10128

Seepage Through Dams with Horizontal Toe Drain, Mohammad S. Moayeri, SM5:May 72:461:8878

Settlement Problem Oriented Computer Language, Robert L. Schiffman, Robert V. Whitman and Jane C. Jordan, SM2:Mar 70:649:7178

Simulation Model for Flow Augmentation Costs, Armando I. Perez, John C. Schaake, Jr. and Edwin E. Pyatt, HY1:Jan 70:131:7026

Slender Prestressed Concrete Columns, Samuel Aroni, ST4:Apr 68:875:5886

Solution for Gravity Flow Under a Sluice Gate, Delmar D. Fangmeier and Theodor S. Strelkoff, EM1:Feb 68:153:5797

Solution of Elastic Plates by Invariant Imbedding, Nestor Distefano and Jaime Schujman, EM5:Oct 71:1349:8424

Some New Plastic Analysis and Design Techniques, Leroy Z. Emkin, TB:73:II-15-377

Space-Framework Method for Three Dimensional Solids, Alan L. Yettram and Kenneth Robbins, EM6:Dec 67:21:5633

Specs - A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, EC5:70:707

Specs-A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, ST1:Jan 71:425:7844

Stability of Discontinuous Rock Masses Under Polyaxial Stress Systems, Peter B. Attewell and John P. Woodman, RM13:72:665

Stability of Shells by Parametric Differentiation, S. K. Radhamohan, Achyut V. Setlur and John E. Goldberg, ST6:June 71:1775:8216

Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321

Static and Dynamic Analysis of Pile Foundations, William E. Saul, ST5:May 68:1077:5936

A Stiffness Matrix Generator, Richard H. Gunderson and Ayhan Cetiner, EC5:70:595

Stresses and Displacements in Nonlinear Soil Media, Yang H. Huang, SM1:Jan 68:1:5714

Structural Analysis by Computer Graphics, William F. Bates, Jr., ST11:Nov 69:2433:6914

Structural and Foundation Computer Based Designs, Richard F. Harig and Daniel J. McDermott, EC5: 70:515

Structural and Foundation Computer-Based Design, Richard F. Harig and Daniel J. McDermott, ST1: Jan 71:315:7843

Structural Optimization by Inscribed Hyperspheres, Roman Baldur, EM3:June 72:503:8934

Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141: 8738

Survey of Geographic Base Files, George P. Leyland, SU2:Sept 70:201:7529

Survey of Programs for Water-Surface Profiles, Bill S. Eichert, HY2:Feb 70:547:7098

A System for Regulation of Combined Sewage Flows, Charles V. Gibbs, Stuart M. Alexander and Curtis P. Leiser, SA6:Dec 72:951:9402

A Systems Analysis Method For Pavement Structures, William Ronald Hudson, B. Frank McCullough and Frank H. Scrivner, EC5:70:95

Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147

Technique for Interactive Computer Graphics in Design, Richard T. Douty and Sidney Shore, ST1: Jan 71:273:7837

Techniques for Analysis of Large Structures, William R. Spillers, ST11:Nov 68:2521:6233

Three-Dimensional Bar Cell for Elastic Stress Analysis, Alexander Hrennikoff and A. Gantayat, EM3:June 70:313:7352

Tidal Computations for Rivers, Coastal Areas and Seas, J. J. Dronkers, HY1:Jan 69:29:6341

Time-Varying Dissolved Oxygen Model, George D. Pence, John M. Jeglic and Robert V. Thomann, SA2:Apr 68:381:5915

Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167

Tower: A Design System For Guyed Towers, Karl L. Reichelt, Daniel M. Brown and John W. Melin, EC5:70:377

Tower Designs for AEP 765-KU Project, Richard A. Kravitz and James A. Samuelson, PO2:Oct 69:305:6855

Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628

Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466

Transportation Planning for Urban School Systems, Patrick R. Pickens and John M. Tyler, TE2:May 74:461:10555

Tsunami Refraction Diagrams by Digital Computer, Garbis H. Keulegan and John Harrison, WW2:May 70:219:7261

Two-Dimensional Analysis of Backwater at Bridges, J. Thomas Franques and Dannial W. Yannitell, HY3:Mar 74:379:10403

Unbalanced Tensions in Transmission Lines, David B. Campbell, ST10:Oct 70:2189:7622

Unsteady Flow in Channel of Variable Cross Section, John Ellis, HY10:Oct 70:1927:7583

Unsteady Flow Simulation in Rivers and Reservoirs, Jack M. Garrison, Jean-Pierre P. Granju and James T. Price, HY5:Sept 69:1559:6771

Unsteady Free-Surface Flow Computations, E. Benjamin Wylie, HY11:Nov 70:2241:7683

Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2:May 72:285:8914

Vibrational Characteristics of Linear Space Frames, William D. Whetstone and Charles E. Jones, ST10:Oct 69:2077:6821

Vibration of Conical Shells Subjected to Torsion, Victor I. Weingarten, EM1:Feb 68:47:5783

Vibrations of Timoshenko Beams and Frameworks, Franklin Y. Cheng, ST3:Mar 70:551:7155

Vogt Boundary for Finite Element Arch Dam Analysis, Gilbert A. Hartley, Gregory M. McNeice and Walter Stensch, ST1:Jan 74:51:10269

Water Distribution Systems Analysis, Uri Shamir and Charles D.D. Howard, HY1:Jan 68:219:5758

Water Exchange in Two-Layer Stratified Waters, Hans Hyden, HY3:Mar 74:345:10402

Water-Quality Management in Irrigation Systems, Gerald T. Orlob and Philip C. Woods, IR2:June 67:49:5280

Yield Line Analysis of Folded Plate Structures, Morris N. Fialkow, ST12:Dec 68:2935:6306

Computer Storage Devices

Coastal Applications of the ERTS -- A Satellite, Orville T. Magoon, Douglas M. Pirie and John W. Jarman, CE13:72:III-2065

Computer Systems Hardware

Computer Use in Civil Engineering, Robert L. Schiffman and E. Rex Krueger, PP2:Apr 72:251:8834

Computer Systems Programs

Computer Systems for Urban Design and Development, Niles O. Sutphin, William F. Sommerfeld, Lavette C. Teague, Jr. and G. Neil Harper, UP1:Apr 71:63:8055

Guidelines for Selecting a Programmable Calculator, Eugene E. Dallaire, CE:Mar 72:46

Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575

Concentrated Loads

Behavior of Loaded Cable Systems, W. Terence O'Brien, ST10:Oct 68:2281:6162

Effect of Openings on Stresses in Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE2:May 73:255:9721

Flexure of Circular Plate by Concentrated Force, T. M. Lee, EM3:June 68:841:6006

Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359

Concentration

Agricultural Waste Management, by the Committee on Agricultural Waste Management of the Environmental Engineering Division, Dan M. Wells, Chmn., EE1:Feb 74:1:10317

Incipient Motion and Sediment Transport, Chih Ted Yang, HY10:Oct 73:1679:10067

Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295

Use of Concentration Index for Pavement Design, Richard G. Ahlvin, Yu Tang Chou and Harry H. Ulery, Jr., TE1:Feb 74:135:10349

Concrete

Admixtures, Bryant Mather, RCCD:70:75

Air Conveyed Concrete -- A Unique Cost-Saving System for Mixing and Placing Concrete, Reg A. Anderson and Fred N. Mueller, ECCD:72:273

Alkali-Silica Reaction: A Major Cause of Concrete Deterioration, Joseph D. Walters, IMROD:Sept 73:464

Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375

Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814

Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180

Australia Square, Seidler & Associates, TB:73:C-P-418

Bearing Strength of Concrete Blocks, Wai F. Chen, TN: EM6:Dec 73:1314:10187

Bearing Strength of Concrete--Geometric Variations, Sanat Kumar Niyogi, ST7:July 73:1471:9853

Behavior Of Concrete Exposed To The Sea, Bryant Mather, CEO-II:70:987

Behavior of Concrete Under Biaxial Stresses, Helmut B. Kupfer and Kurt H. Gerstle, EM4:Aug 73:853:9917

Behavior of Laterally Reinforced Concrete ColumnF, Edwin G. Burdette and Hubert K. Hilsdorf, ST2:Feb 71:587:7905

Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491

Biaxial Stress-Strain Relations for Concrete, Tony C.Y. Liu and Arthur H. Nilson, ST5:May 72:1025:8905

Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54

Bonded Concrete Overlays, Raouf Sinno and Howard L. Furr, ST8:Aug 70:1627:7450

Bridge Engineer Looks at Esthetics of Structures, Reece H. Wengenroth, ST4:Apr 71:1227:8074

Bridge Features Precast Girders and Struts, Donald D. Casad and Halvard W. Birkeland, CE:July 70:42

Buckling of Reinforced Concrete Shells, P. Harvey Griggs, EM3:June 71:687:8173

Bureau of Reclamation Experiences With Concrete Admixtures, Elmo C. Higginson, RCCD:70:103

Caisson Construction Problems and Correction in Chicago, Clyde N. Baker, Jr. and Fazlur R. Khan, SM2:Feb 71:417:7934

Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515

Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462

Chemical Resistant Resurfacing Mortar for Industry, Dallas Grenley and Lou Kuhlmann, CO2:June 74:133:10603

Comparison of Approximate Linear Methods for Concrete Creep, Zdenek P. Bazant and Leonard J. Najjar, ST9:Sept 73:1851:10006

Computer Analysis for Slender Concrete Columns, John Gaughan, ST10:Oct 74:2123:10894

Concrete Bearing Strength—Support, Mix, Size Effect, Sanat Kumar Niyogi, ST8:Aug 74:1685:10765
Concrete Chimney Design, Construction and Operation, Philip G. Sikes, PO3:June 70:449:7368
Concrete Dam Construction Using Earth Compaction Methods, Robert Williams Cannon, ECCD:72:143
Concrete Frame Construction, State-of-Art Report 6, W. S. Bellows, Jr., TB:73:Ia-4-777
Concrete Hulls For Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, CEO-II:70:999
Concrete Median Barrier Safely Redirects Impacting Vehicles, Edwin C. Lokken, CE:Oct 71:77
Concrete-Polymer Composites for Underwater Applications, Lawrence E. Kukacka, Peter Colombo, Meyer Steinberg and Bernard Manowitz, CEO-II:70:969
Concrete Production and Placing at Gordon Dam, Tasmania, Henry H. Thomas, ECCD:72:299
Concrete Quality, Neil Jackson, TB:73:Ib-9-896
Concrete Strain Capacity Tests -- Their Economic Implications, Donald L. Houghton, ECCD:72:75
Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, Clyde E. Kesler, TB:73:III-25-757
Corps of Engineers Studies of Shotcrete, Thomas J. Reading, SUSS:July 73:263
Creep and Shrinkage Law for Concrete at Variable Humidity, Zdenek P. Bazant and Spencer T. Wu, EM6:Dec 74:1183:10995
Critique of Designs and Specifications, Grant P. Gordon, ECCD:72:201
Current Field Research Program on Shotcrete, Harvey W. Parker, SUSS:July 73:330
Current Questions, Problems, and Research Needs, State-of-Art Report 2, S. Covarrubias, A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63
Cylindrical Concrete Hulls Under Hydrostatic Loading, Harvey H. Haynes, Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Diagonal Tension Cracking in Concrete Beams with Axial Forces, Alan H. Mattock, ST9:Oct 69:1887:6776
Dimensional Tolerance in Concrete, Anthony E. Fiorato and Sven Sahlin, TB:73:Ib-9-893
Dirichlet Series Creep Function for Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM2:Apr 73:367:9645
Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1:May 73:217:9741
Dual Failure Criterion for Plain Concrete, Han-Chin Wu, EM6:Dec 74:1167:10996
Economic Aspects of Curing Mass Concrete, Bryant Mather, ECCD:72:39
Elastic Analysis of Tall Concrete Buildings, Jacob Gluck, TB:73:III-21-300
Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525
Evaluation of Synthetic Aggregate from Lignite Fly Ash, Roger L. Engelke, William B. Ledbetter and Bob M. Gallaway, TE1:Feb 74:27:10337
Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145
Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081
Flexural Members with Confined Concrete, Dudley Charles Kent and Robert Park, ST7:July 71:1969:8243
Flexural Rigidity of Concrete Column Sectione, Ian C. Medland and Donald A. Taylor, ST2:Feb 71:573:7933
Fracture and Stress-Strain Relationship of Concrete Under Triaxial Compression, Ranga Palaniswamy and Surendra P. Shah, ST5:May 74:901:10547
Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139
Gap-Graded Aggregates for Mass Concrete, Shu-t'ien Li, ECCD:72:101
Grain Storage Structures for Food Deficient Areas, Alexander M. Turitzin, ST10:Oct 69:2161:6835
Griffith Fracture Criterion and Concrete, Surendra P. Shah and Frederick J. McGarry, EM6:Dec 71:1663:8597
Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, Eugene P. Holland, TB:73:III-25-805
Inspection Practices for Tall Buildings, Lowell A. Napper, TB:73:Ib-9-898
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Interaction Between Frames and Precast Panel Walls, Atle Gjelsvik, ST2:Feb 74:405:10374
Introductory Remarks, Robert E. Philleo, ECCD:72:31
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
Maintenance and Repairs of Ancillary Equipment, Dale H. Doble, IMROD:Sept 73:451
Making Highways Skid-proof, John L. Beaton, CE:Mar 71:42
Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, Toshiharu Hisatoku and Fujio Nishikawa, TB:73:Ia-3-501
M.L.C. Centre, Seidler & Associates, TB:73:C-P-426
Nauru House, Perrott, Lyon, Timlock & Kesa, TB:73:C-P-428
New Developments in In-Place Testing of Shotcrete, Todd E. Rutenbeck, SUSS:July 73:246
Non-Linear Analysis and Limit Design, Summary Report, Herbert A. Sawyer, TB:73:III-22-483
Nuclear Containment Mat Design Concepts, King-Yuen Chu and Alan A. Broussard, PO1:July 74:85:10654
Numerical Biaxial Characterization for Concrete, Karl M. Romstad, Michael A. Taylor and Leonard R. Herrmann, EM5:Oct 74:935:10879
Optimum Design of Prestressed Concrete Members, Chen H. Wang, ST7:July 70:1525:7422
Package Buildings in Steel, Concrete, CE:Aug 74:76
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
Planning and Construction of an Ellipsoidal Dome, Joseph F. West, CO2:Oct 68:113:6129
Polymer as Surface Treatment for Concrete, Alvin H. Meyer, ST6:June 74:1205:10615
Polymer-Cement Concretes for Field Construction, Sandor Popovics, CO3:Sept 74:469:10806
Potrero Hill Slide and Correction, Travis Smith and Raymond H. Forsyth, SM3:Mar 71:541:8004
Preliminary Design and Construction Concepts for Trumbull Lake Dam, Joseph A. McElroy, ECCD:72:171
Probabilistic Analysis of Fiber-Reinforced Concrete, Antoine E. Naaman, Fred Moavenzadeh and Frederick J. McGarry, EM2:Apr 74:397:10491
Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448
Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, Francis J. Principe, TB:73:Ib-9-807
Quality Control of Concrete in Germany, Manfred Stiller, TB:73:Ib-9-897
Recent Concrete Developments in the Corps of Engineers, John W. Morris, ECCD:72:15
Report of Workshop B's First Session, James I. Barnes, ECCD:72:329
Report of Workshop B's Second Meeting -- Construction Specifications, Equipment, and Systems for Concrete Dams, Jack W. Ward, ECCD:72:337
Requirements For Efficient Concrete Placement, Edward E. Hershberger, RCCD:70:15
Revetment Construction by Fabriform Process, Bruce A. Lamberton, CO1:July 69:49:6677
Seismic Analysis of Nuclear Power Plant Structures, Richard N. Bergstrom, Shih-Lung Chu and Robert J. Small, PO2:Mar 71:367:7977

Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923
Shrinkage Effect of Structural Concrete Walls in Multi-Story Buildings, Iosif Gruner, Grigore Rotaru and Radu Frunza, TB:73:III-25-827
Specifying Structural Concrete for Buildings, Sidney Freedman, CE:Nov 73:68
Spillway Stilling Basin Repair Using Bonded Concrete and Epoxy Mortar, James R. Graham, OIDS:72:185
Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913:8253
Strength at Diagonal Cracking under Uniform Load, Madhujit Mukhopadhyay, TN: ST9:Sept 74:1989:10775
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. Mohan Malhotra, EM2:Apr 74:305:10489
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907
Stress Strain Characteristics of Gypsum Concrete, Jehangir F. Mirza and E. G. Kandasamy, TN: ST12:Dec 72:2831:9400
Structural Concrete-Biaxial Bending and Compression, Cheng-Tzu Hsu and M. Saeed Mirza, TN: ST2:Feb 73:285:9545
Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647
Summary of Session II - Shotcrete Applications in the Americas, William A. Maples, SUSS:July 73:58
Summary of the Conference, Pierrepont E. Sperry, Jr., SUSS:July 73:441
Summary of Workshop A - Shotcrete Construction and Equipment, Harold E. Tibbs, SUSS:July 73:143
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
Temporary Bulk Grain Storage Structures, Alexander M. Turitzin, ST3:Mar 69:381:6459
Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807
Use of Remote Controlled Spraying Nozzle, Claes Alberts, SUSS:July 73:65
Use of Shotcrete from the Standpoint of the Designer, Cole R. McClure, SUSS:July 73:18
Use of Shotcrete from the Standpoint of the Contractor, Kirk H. Fox, SUSS:July 73:22
Volumetric Proportioning, Blending, and Mixing, Ralph W. Coho, Jr., SUSS:July 73:101
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Wear Resistant Industrial Floors of Portland-Cement Concrete, R. F. Ytterberg, CE:Jan 71:68
What's New in Concrete?, CE:Jan 74:36
Workshop A -- Advances in Concrete Technology, Samuel D. Burks, ECCD:72:153
Yield Criterion for Reinforced Concrete Slabs, Satish Jain and John B. Kennedy, ST3:Mar 74:631:10409

Concrete (Admixtures)

Early Age Strength Properties of Shotcrete, Grant L. Anderson and Melvin E. Poad, SUSS:July 73:277
Use of Curing Compounds on Horizontal Construction Joints, James R. Graham, ECCD:72:55
Using Accelerator - Wet Process, H. N. Steenson, SUSS:July 73:104

Concrete (Blocks)

Bearing Capacity of Concrete Blocks, Wai F. Chen and Sergio Couarrubias, EM5:Oct 71:1413:8421
Bearing Strength of Concrete Blocks, Wai F. Chen, TN: EM6:Dec 73:1314:10187
Hydraulic Resistance of Artificial Concrete Blocks, Nobuo Shuto and Hiroshi Hashimoto, 12CEC:71:1587
New Mortars, Prefab Walls Transform Concrete Masonry, Henry T. Toennies, CE:July 73:46

Concrete (Lightweight)

Deflections of Lightweight Reinforced Concrete Beams, John L. Heiman, TB:73:III-25-811
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, A. Negoita and Ion G. Pop, TB:73:III-21-247
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527

Concrete (Post-Tensioned)

Anchor Zone Stresses in Prestressed and Concrete Beams, Kashi T. Sundara Raja Iyengar, Raja Sundara and Mandanapalli K. Prabhakara, ST3:Mar 71:807:7961
Bridge Features Cable Stays, Precast Segmental Deck, Herbert B. Rothman and Fu-Kuei Chang, CE:Mar 74:56
Containment Structure For Trojan Nuclear Plant, Jacob K. Aldersebaes and Karl Wiedner, PO2:Mar 71:351:7957
Design of a Two-Way Post-Tensioned Waffle Slab, Jerry L. McDonald, CE:May 73:64
A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
First Segmental Bridge in U.S., Wayne Henneberger and John E. Breen, CE:June 74:54
Heavy Prestressed Girders Cast in Segments, Harold L. Nelson, CE:Feb 70:75
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
Optimum Design of Prestressed Concrete Members, Chen H. Wang, ST7:July 70:1525:7422
Pine Valley Creek--a First, A. P. Bezzone, CE:Aug 74:72
Prefabricated Highways, William Zuk, TE2:May 72:387:8895
Prestress System for Nuclear Concrete Containment Domes, King-Yuen Chu, PO1:July 74:111:10687
Record Concrete Shell Roof Featured in Coliseum, Yue-Chyou Yang, CE:June 72:51
Tie-Downs and Inclined Legs Lead to Slender Graceful Overpass, B. P. Dowsley and W. W. Irwin, CE:July 69:64

Concrete (Precast)

Airport Overpass is technical esthetic winner, Yue-Chyou Yang and Kam-Shing Lo, CE:July 74:50
At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73:72
Book Review: Design Of Connections For Precast Prestressed Concrete, George D. Nasser, CE:Sept 73:38
Book Review: Design Of Connections For Precast Prestressed Concrete, George D. Nasser, CE:Sept 73:38
Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, Emil Grasser and F. Daschner, TB:73:III-21-290
Concrete-Polymer Composites, Lawrence E. Kukacka, Peter Colombo, Meyer Steinberg and Bernard Manowitz, ST9:Sept 71:2217:8363
Construction Of Large Concrete Ocean Structures, Ben C. Gerwick, Jr., CO1:Mar 71:1:7991
Construction Self-Weight Stresses Of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, EC5:70:645
Construction Self-Weight Stresses of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, ST1:Jan 71:393:7840
Corrugated Metal Flumes, Tadaaki Naruse, OIDS:72:219
Dam Has Slipformed Upstream Face, Precast Downstream Face, V. M. Wallingford, CE:Nov 70:49
First Segmental Bridge in U.S., Wayne Henneberger and John E. Breen, CE:June 74:54
Floor-Ceiling System Features Precast Concrete Units, Jerome S.B. Iffland, CE:Apr 72:52

Future of Prestressed Concrete, W. Burr Bennett, Jr., CE:July 69:41
A Growing Need for Undergraduate Education in Precast Prestressed Concrete Design, Fromy Rosenberg, CEE:Feb 74:1-382
Heavy Prestressed Girders Cast in Segments, Harold L. Nelson, CE:Feb 70:75
High-Rise Panel Structures, Matthys P. Levy and Istvan S. Varga, ST5:May 72:975:8894
Interaction Between Frames and Precast Panel Walls, Atle Gjelsvik, ST2:Feb 74:405:10374
Joints, Precast Panel Buildings, State-of-Art Report 2, Bohdan Lewicki and Adrian Pauw, TB:73:III-21-171
Limfjord Tunnel: Precast Sections in Underwater Trench, K. Havno, CE:July 69:59
Long-Span Bridge: Utility, Grace at Low Cost, Harry M. Montgomery and Roger D. Troxell, CE:May 72:73
Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
Milwaukee Installs Concrete Median Barriers, Daniel A. Kastenholz, CE:July 73:88
Modular Systems Make Shore Protection Economical, Carl R. Wilder and Earl R. Koller, CE:Oct 71:60
Moment Redistribution in Precast Concrete Frame, Harold W. Conner, Paul H. Kaar and W. Gene Corley, ST3:Mar 70:637:7168
Multistory Prefabricated Columns, German R. Gurfinkel, CO2:Oct 70:137:7587
Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632
Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:1:9706
PCI Design Handbook, Precast and Prestressed Concrete, Prestressed Concrete Institute (Book Review), Francis J. Jacques and Allen G. Thurman, CE:Aug 72:9
Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591
Precast Concrete in Residential Construction, Rexford L. Selbe, UP1:Mar 73:93:9596
Precast Concrete Tunnel Linings for Toronto Subway, John V. Bartlett, Ted M. Noskiewicz and James A. Ramsay, CO2:Nov 71:241:8498
Prefabricated Highways, William Zuk, TE2:May 72:387:8895
Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489
Rapid Concrete Pavement Replaced in 1-1/2 Hours, Jens E. Simonsen, CE:Apr 74:62
Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, Michel Kavyrchine, TB:73:Ia-3-415
Seacoast Dam Separates Saltwater and Fresh, Chris C. Ziogas, CE:Feb 74:53
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870
Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, Alexander Popoff, Jr., TB:73:III-23-571
Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499
Tensile Ties in Precast Concrete Systems, Adrian Pauw, TB:73:III-23-623
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
81-ft Model of Prestressed Bridge, CE:Oct 72:83

Concrete (Prestressed)

Airport Overpass is technical esthetic winner, Yue-Chyou Yang and Kam-Shing Lo, CE:July 74:50
Analysis of Composite Prestressed Concrete Beams, Vadaporty Jagannadha Rao and Walter H. Dilger, ST10:Oct 74:2109:10850
Anchor Zone Stresses in Prestressed and Concrete Beams, Kashi T. Sundara Raja Iyengar, Raja Sundara and Mandanapalli K. Prabhakara, ST3:Mar 71:807:7961
At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73:72
Bearing Capacity of Concrete Blocks, Wai F. Chen and Sergio Couarrubias, EM5:Oct 71:1413:8421
Breakwater Built With Concrete Piles, Thomas F. Plodowski, CE:Apr 72:80
Comparison of Approximate Linear Methods for Concrete Creep, Zdenek P. Bazant and Leonard J. Najjar, ST9:Sept 73:1851:10006
Computer Plotted Prestressed Concrete Design Charts, Leonard Rice, ST3:Mar 71:863:7993
Concrete Containments for Reactors-State-of-Art, Chen Pang Tan, ST7:July 70:1543:7424
Concrete Oil Storage Tank to Rest in North Sea, Ben C. Gerwick, Jr. and Eivind Hognestad, CE:Aug 73:81
Construction of Large Prestressed Concrete Girders, J. Neil Mustard and Ram S. Ghosh, CO4:Dec 74:507:10994
Construction of Prestressed Concrete Structure, by Ben C. Gerwick, Jr. (Book Review), Shu-T'ien Li, CE:Feb 72:18
Continuous Beams With Prestressed Reinforcement, Alfred G. Bishara, George E. Mason and Filomeno N. Almeida, ST9:Sept 71:2261:8387
Cracking and Crack Control, State-of-Art Report 1, Peter Gergely, TB:73:III-24-645
Current European Views on Structural Safety, E. R. Rowe, ST3:Mar 70:461:7132
Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
Displacements and Losses in Multistage Prestressed Members, Amin Ghali, Romy G. Sisodiya and Gamil S. Tadros, ST11:Nov 74:2307:10968
Dumbarton Bridge Renewal, H. M. Williamson and T. L. Fuller, CE:July 69:44
Dynamic Driving Stresses in Prestressed Concrete Piles, Arthur R. Anderson and Saad E. Moustafa, CE:Aug 71:55
Effects of Creep and Shrinkage on Prestressed Concrete Columns, William J. Wilhelm and Paul Zia, ST10:Oct 70:2103:7614
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64
Epoxy Injections Repair Historic Prestress Concrete Bridge, Henry G. Garfield, CE:Mar 71:39
Esthetics in Water Towers, John P. Klus, CE:Sept 73:84
Fatigue Tests of Prestressed Concrete I-Beams, John M. Hanson, Cornie L. Hulsbos and David A. VanHorn, ST11:Nov 70:2443:7705
Field Observation of Tagus River Suspension Bridge, Jose Marecos, Mario Castanheta and J. Teixeira Trigo, ST4:Apr 69:555:6492
First Prestressed Containment Vessel in a U.S. Commercial Nuclear Power Plant, Don K. Croneberger, CE:July 69:52
Fracture and Stress-Strain Relationship of Concrete Under Triaxial Compression, Ranga Palaniswamy and Surendra P. Shah, ST5:May 74:901:10547
Future of Prestressed Concrete, W. Burr Bennett, Jr., CE:July 69:41
A Growing Need for Undergraduate Education in Precast Prestressed Concrete Design, Fromy Rosenberg, CEE:Feb 74:1-382
Heavy Prestressed Girders Cast in Segments, Harold L. Nelson, CE:Feb 70:75
High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985
Hyperbolic Functions for Prestress Loss and Camber, Raouf Sinno and Howard L. Furr, ST4:Apr 70:803:7227
Longest Concrete-Arch Bridge in North America, Ernest C. Harris and John A. Talbott, CE:July 72:49
Long Prestressed Piles, E. W. Alley, CE:Apr 70:50
Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
Motar Models of Prestressed Concrete Reactor Vessels, James M. Corum, Richard N. White and Jack E. Smith, ST2:Feb 69:229:6419

Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632
Optimum Design of Prestressed Concrete Members, Chen H. Wang, ST7:July 70:1525:7422
Optimum Design of Prestressed Plates, Uri Kirsch, ST6:June 73:1075:9777
Plastic Liners for CANDU Containment Structures, E. C. Smith, ST10:Oct 71:2583:8435
Prestressed Beams in Torsion, Bending, and Shear, Robert L. Henry and Paul Zia, ST5:May 74:933:10560
Prestressed Concrete Developments Around the World, Ben C. Gerwick, Jr., CE:Dec 70:55
Prestressed Concrete for County Bridge Solves Maintenance Problems, Frank J. Brechting, Jr., CE: June 70:74
Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906
Prestressing For H.B. Robinson Nuclear Plant, Allan H. Wern, Morris Schupack and W. Larson, PO2: Mar 71:539:7992
Prestress System for Nuclear Concrete Containment Domes, King-Yuen Chu, PO1:July 74:111:10687
Rail Tracks for Japan's 130-mph Trains, Kentaro Matsubara, CE:Dec 69:32
Record Concrete Shell Roof Featured in Coliseum, Yue-Chyou Yang, CE:June 72:51
Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1: Jan 73:183:9501
Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, Michel Kavyrchine, TB:73:Ia-3-415
Relaxation Tests on Alloy Steel Bars, Murray A. Muspratt, ST5:May 71:1533:8128
Rotational Capacity of Prestressed Concrete Beams, Alfred G. Bishara and Gurcharan S. Brar, ST9:Sept 74:1883:10821
Saint Louis Bay Bridge, Richard E. Whitaker, CO2: Oct 70:149:7588
Shear Strength of Post-Tensioned Daps in Prestressed Concrete Beams, Ali A. Hamoudi and Michael K.S. Phang, ST12:Dec 74:2403:11011
The Shear Strength of Reinforced Concrete Members, James G. MacGregor, Chmn., ST6:June 73:1091:9791
Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096
Stiffened Mats on Expansive Clay, Robert L. Lytton and Kirby T. Meyer, SM7:July 71:999:8265
Structural Behavior of Prestressed Concrete Reactor Vessels, Stanley L. Paul, ST7:July 71:1879:8249
Temporary Bypass Bridge Designed for Salvage, Alfred R. Pagan, CE:Mar 70:51
Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73:335:9627
Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687:9428
Tie-Downs and Inclined Legs Lead to Slender Graceful Overpass, B. P. Dowsley and W. W. Irwin, CE:July 69:64
Torsional Strength of Prestressed Concrete Beams, H. Roger Woodhead and Arthur E. McMullen, ST5: May 74:881:10545
Torsion and Bending of Prestressed Concrete Beams, Lawrence H. Martin and Peter J. Wainwright, ST11:Nov 73:2229:10129
Torsion, Bending and Shear in Prestressed Concrete, Priya R. Mukherjee and Joseph Warwaruk, ST4: Apr 71:1063:8041
Two Prestressed Concrete Bridges in Pakistan, Donovan H. Lee, CE:Oct 69:61
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
What Do We Know About Torsion in Concrete Members, Paul Zia, ST6:June 70:1185:7372
World's Top Prestressed Structures, 1970-74, CE:Aug 74:68
81-ft Model of Prestressed Bridge, CE:Oct 72:83

Concrete (Reinforced)

An American Engineer in Israel, Irving Kett, CE: June 72:63
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
Analysis and Design of Nuclear Power Plant Structures, Peter K. Ho and Milomir Stoykovich, SDNPF:Dec 73:365
Analysis of Dowel Action, David W. Johnston and Paul Zia, ST5:May 71:1611:8147
Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375
Arch Action and Bond in Concrete Shear Failures, Ramnath N. Swamy, Alexios Andriopoulos and Dotun Adepegba, ST6:June 70:1069:7338
Bearing Strength of Concrete Blocks, Wai F. Chen, TN: EM6:Dec 73:1314:10187
Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709
Behavior of Simply Supported Slabs, Murray A. Muspratt, ST12:Dec 69:2703:6945
Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, Karl Kordina, TB:73:III-23-555
Behaviour of Concrete-Filled Steel Tubular Columns, Wai F. Chen, TB:73:III-23-608
Biaxial Moment Thrust Curvature Relations, Robert F. Warner, ST5:May 69:923:6564
Boston Collapse, William A. Litle, STF:73:99
Bridge Deck Deterioration and Crack Control, Joseph P. Callahan, James L. Lott and Clyde E. Kesler, ST10:Oct 70:2021:7579
Buckling of Reinforced Concrete Plates, Stuart E. Swartz and Vernon H. Rosebraugh, ST1:Jan 74:195:10280
Buckling of Reinforced Concrete Shells, P. Harvey Griggs, EM3:June 71:687:8173
Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Cast-in-Place Joints for Tall Concrete Buildings, State-of-Art Report 3, James O. Jirsa, TB:73:III-21-191
Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437
Circular Discontinuously Braced Excavation (In Spanish), Andres Perez M., 4PCSM:71:II203
Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
Collapse Load of Reinforced Concrete Footings, George G. Meyerhof and Kanakapura S. Subba Rao, ST5:May 74:1001:10531
Collapse of Curved Reinforced Concrete Beams, Ian J. Jordaan, Magdi M. A. Khalifa and Arthur E. McMullen, ST11:Nov 74:2255:10951
Commentary on Structural Standards, Summary Report, Emory L. Kemp, TB:73:III-20-139
Composite Beams in Torsion, Conrad P. Heins, Jr. and John T.C. Kuo, ST5:May 72:1105:8921
Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603
Composite Steel-Concrete Building Frame, Don Belford, CE:July 72:61
Compression Fatigue of Fiber Reinforced Concrete, Melvin R. Ramey and Patrick J. McCabe, EM2: Apr 74:139:10469
Computation of Twin Walls Connected by Clamped Beams, Axel Efsen and L. Pilegaard Hansen, TB: 73:III-21-265
Concrete Beams in Bending, Torsion and Shear, Arthur E. McMullen and Joseph Warwaruk, ST5: May 70:885:7270
Concrete Beams with Prestressed Reinforcement, Alfred G. Bishara and Filomeno N. Almeida, ST7: July 70:1445:7411

Concrete Containments for Reactors-State-of-Art, Chen Pang Tan, ST7:July 70:1543:7424
Concrete Design Standards in Arab Countries, State-of-Art Report 6, Jacques Nasser, TB:73:III-20-113
Concrete Design Standards in Asia, State-of-Art Report 7, Hon Kwan Cheng, TB:73:III-20-117
Concrete Pipe Culvert Behavior - Part 2, Raymond Eugene Davis and Alfred E. Bacher, ST3:Mar 74:615:10408
Concrete Pipe Culvert Behavior—Part 1, Raymond Eugene Davis, Alfred E. Bacher and John C. Obermuller, ST3:Mar 74:599:10404
Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655
Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, Mogens Lorentsen, TB:73:III-23-585
Construction Of Multibarrier Containment Vessels, Delbert M. Leppke, C. Alexander and Robert S. Webb, CO1:Mar 71:53:8002
Continuous Beams With Prestressed Reinforcement, Alfred G. Bishara, George E. Mason and Filomeno N. Almeida, ST9:Sept 71:2261:8387
Continuous Reinforcement in Airport Concrete Pavements, Frederick A. Antonelli, CE:Dec 69:62
Conventionally Reinforced Nuclear Containments, Clarence T Gordon and William L Klehm, ST2:Feb 70:199:7065
Corrugated Metal Flumes, Tadaaki Naruse, OIDS:72:219
Coupling Beams of Reinforced Concrete Shear Walls, Thomas Paulay, ST3:Mar 71:843:7984
Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72:2663:9423
Crack Width Control in Reinforced Concrete Two-Way Slabs, Edward G. Nawy and Glenn S. Orenstein, ST3:Mar 70:701:7182
Creep Deflection of Reinforced Concrete Beams, Charles A. Miller and Sidney A. Guralnick, ST12:Dec 70:2625:7768
Current Application of Limit State Philosophy -- State-of-Art Report No. 1, Andre Paduart, TB:73:III-26-859
Current European Views on Structural Safety, E. R. Rowe, ST3:Mar 70:461:7132
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Deep Slabs Subjected to Static and Blast Loading, Gayle E. Albritton, ST11:Nov 69:2449:6919
Design of Reinforced Concrete Spandrel Beams, Thomas T.C. Hsu and Kenneth T. Burton, ST1:Jan 74:209:10277
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Detroit Metropolitan Wayne County Airport, Lin Y. Huang, CE:July 70:55
Dimensional Tolerance - Concrete, State-of-Art Report 5, Philip W. Birkeland and Leonard J. Westhoff, TB:73:Ib-9-845
Dry-Type Hyberbolic Cooling Tower, Paul Rogers and Laszlo Heller, CE:Oct 72:56
Dynamic Properties of Tall Shear-Wall Buildings, George T. Taoka, Augustine S. Furumoto and Arthur N.L. Chiu, ST2:Feb 74:305:10336
Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73:III-23-537
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elastic Analysis of Tall Concrete Buildings, Jacob Gluck, TB:73:III-21-300
Elastic Analysis-Strength of Members and Connections, Theme Report, Russell S. Fling, TB:73:III-21-149
Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72:47:8717
Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525
Elasto-Plastic Seismic Response of Reinforced Concrete Frame, Warren R. Walpole and Robin Shepherd, ST10:Oct 69:2031:6813
Engineer's Notebook: Ultimate Strength Design Of Circular Reinforced Concrete Cross Sections, George Fekete, CE:Nov 73:80
Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898
Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145
Failure Probabilities of Reinforced Concrete Beams, James F. Costello and Kuang-han Chu, ST10:Oct 69:2281:6848
Finite Element Analysis of Concrete Beams, Chung-Hyun Nam and Charles G. Salmon, ST12:Dec 74:2419:11016
Finite Element Analysis of Reinforced Concrete Slabs, Jan C. Jofriet and Gregory M. McNeice, ST3:Mar 71:785:7963
Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081
Finite Element for Reinforced Concrete Frame Study, Wayne C. Kroenke, Martin J. Gutzwiller and Robert H. Lee, ST7:July 73:1371:9835
Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353
Full-Range Analysis of Concrete Frames, Angel L. Lazaro, III and Rowland Richards, Jr., ST8:Aug 73:1761:9934
Full-Size Lightweight Concrete Column4, Donald W. Pfeifer, ST2:Feb 71:495:7903
Fully Plastic Analysis and Design, State-of-Art Report 4, A. L.L. Baker, TB:73:III-22-415
General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67
German Code Requirements, Gert Konig, TB:73:Ib-10-1027
Impact Resistance of Ferro-Cement, Surendra P. Shah and William H. Key, Jr., ST1:Jan 72:111:8640
Implications of the New ACI Building Code, Edward Cohen, CE:Aug 72:47
Imposed Rotations Methods, State-of-Art Report 3, Jean-Claude Maldague, TB:73:III-22-395
Inelastic Analysis of R/C Frame Structures, Shunsuke Otani, ST7:July 74:1433:10686
Inelastic Analysis of Reinforced Concrete Frames, Leone Corradi, Osvaldo De Donato and Giulio Maier, ST9:Sept 74:1925:10832
Inelastic Behavior Of R/C Cylindrical Shells, Harry G. Harris and Richard N. White, ST7:July 72:1633:9074
In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62
An Integrated System For RC Building Design, John M. Biggs, Peter J. Pahl and Harry N. Wenke, EC5:70:1
Integrated System For RC Building Design, John M. Biggs, Peter J. Pahl and Harry N. Wenke, ST1:Jan 71:13:7816
Japanese Structural Standards for Reinforced Concrete Buildings, Masahide Tomii, TB:73:III-20-125
Kazerne Viaduct Collapse, Konstant E. Bruinette, Alan J. Ockleston and Pieter C. Pretorius, ST2:Feb 74:335:10361
Limfjord Tunnel: Precast Sections in Underwater Trench, K. Havno, CE:July 69:59
Limit Design of Reinforced Concrete Frames, M. Z. Cohn, ST10:Oct 68:2467:6197
Limit States Design of Slabs Using Lower Bound Approach, B. Vijaya Rangan, ST2:Feb 74:373:10348
Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949

Limit States Design, Theme Report, Franco Levi, TB: 73:III-26-843

List of Limit States, State-of-Art Report 2, J. Brakel, TB:73:III-26-863

Lower Bound Optimal Design of Concrete Structures, George I.N. Rozvany and M. Z. Cohn, EM6:Dec 70:1013:7778

Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617

Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373

Minimum Reinforcement in Clamped Square Slabs, Manhar C. Thakkar and Jawalker K. Sridhar Rao, TN: ST3:Mar 70:751:7118

Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165: 8631

Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296

Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671

Moment Redistribution in Precast Concrete Frame, Harold W. Conner, Paul H. Kaar and W. Gene Corley, ST3:Mar 70:637:7168

Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208

Multibarrier Containment for Nuclear Power Plants, Alexander C. Koehler, Delbert M. Leppke and Roy W. Corcoran, PO2:Oct 69:203:6829

New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50

New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712

New Shape in Shore Protection, Greer E. Coursey, CE:Dec 73:68

Non-Linear Analysis and Limit Design, Theme Report, Giorgio Macchi, TB:73:III-22-333

Nonlinear Analysis of Concrete Flexural Members, John M. Kulicki and Celal N. Kostem, TB:73:III-22-473

Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860

Nonlinear Seismic Response Evaluation - Charaima Building, Stephen A. Mahin and Vitelmo V. Bertero, ST6:June 74:1225:10614

Nonlinear Stress Analysis of Reinforced Concrete, Somasundaram Valliappan and T. F. Doolan, ST4: Apr 72:885:8845

Novel Features on Lindenwold Line, Richard E. Pinkham, TE2:May 72:367:8892

One Shell Plaza, Skidmore, Owings & Merrill, TB: 73:C-P-488

Partially Cracked Finite Elements, John C. Bell and David G. Elms, TN: ST7:July 71:2041:8226

Plane Stress Reinforced Concrete Finite Elements, James Colville and Jamil Abbasi, ST5:May 74:1067: 10554

Plastic Liners for CANDU Containment Structures, E. C. Smith, ST10:Oct 71:2583:8435

Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485

Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489

Probabilistic Analysis of Fiber-Reinforced Concrete, Antoine E. Naaman, Fred Moavenzadeh and Frederick J. McGarry, EM2:Apr 74:397:10491

Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654

R/C Column Earthquake Response in Two Dimemsions, A. Emin Aktan, David A, Pecknold and Mete A. Sozen, ST10:Oct 74:1999:10864

Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59

Rehabilitation of Offshore Platforms, John J. Givens and Greg Carter, CE:Apr 70:47

Reinforced Concrete Beam-Column Connection, Eric F.P. Burnett and Rajendra P. Jajoo, ST9:Sept 71: 2315:8395

Reinforced Concrete Beam-Column Joints, Yoichi Higashi and Yoshimasa Owada, TB:73:III-21-259

Reinforced Concrete Column Response to Fire, Boris Bresler and H. Bizri, TB:73:Ib-8-723

Reinforced Concrete Columns, State-of-Art Report 5, Ignacio Martin, TB:73:III-21-223

Reinforced Concrete Design for Strength and Deformability, Mir M. Ali and Donald E. Grierson, EM5:Oct 74:839:10859

Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011

Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, Michel Kavyrchine, TB:73:Ia-3-415

Reinforcement for Torque in Spandrel L-Beams, Umakanta Behera, K. S. Rajagopalan and Phil M. Ferguson, ST2:Feb 70:371:7103

Repair of Earthquake Damaged Underground Reservoir, Daniel J. Smith, Jr., CO3:Sept 74:449: 10825

Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45

Risk-Based Evaluation of Design Criteria, Bruce R. Ellingwood and Alfredo H.-S. Ang, ST9:Sept 74: 1771:10778

Safe Limit Loading of Folded Plate Structures, Morris N. Fialkow, ST10:Oct 72:2181:9249

Seismic and Cyclonic Response of Continuous Frames, Gerald M. Smith, George C. Ernst and Mahendra Maheshwari, ST2:Feb 74:391:10355

Seismic Resistance of Concrete Frames with Grade 60 Reinforcement, Norman W. Hanson, ST6:June 71:1685:8180

Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695

Serviceability, Emil Grasser, TB:73:III-22-465

Shear Strength of Large Beams, Howard P.J. Taylor, ST11:Nov 72:2473:9329

The Shear Strength of Reinforced Concrete Members, James G. MacGregor, Chmn., ST6:June 73:1091:9791

The Shear Strength of Reinforced Concrete Members—Slabs, by the Joint ASCE-ACI Task Committee 426 on Shear and Diagonal Tension of the Committee on Masonry and Reinforced Concrete of the Sturctural Division, Neil M. Hawkins, Chmn., ST8:Aug 74:1543:10733

Shear Strength of Reinforced Concrete Beams, Bengt B. Broms, ST6:June 69:1339:6636

Shear Walls, State-of-Art Report 4, Masahide Tomii, TB:73:III-21-203

Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488

Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, ST3:Mar 74: 687:10435

Simulated Seismic Loading of Spandrel Beams, Thomas Paulay, ST9:Sept 71:2407:8365

Slabs with Variable Straight Reinforcement, George I. N. Rozvany and Donald E. Charrett, ST5:May 71: 1521:8095

Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729: 8544

South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, Nilo Andrade Amaral, TB:73:III-20-57

Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, James G. Mac Gregor, TB: 73:III-23-517

Stability, Summary Report, Boris Bresler, TB:73:III-23-631

Stiffened Mats on Expansive Clay, Robert L. Lytton and Kirby T. Meyer, SM7:July 71:999:8265

Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639

Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, Yoichi Higashi and Toshikazu Takeda, TB:73:III-24-655

Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455

Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
Stirrup Effectiveness in RC Beams with Axial Force, Munther J. Haddadin and Alan H. Mattock, ST9: Sept 71:2277:8394
Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909
Structural Behavior of Prestressed Concrete Reactor Vessels, Stanley L. Paul, ST7:July 71:1879:8249
Structural Design of Wells Hydrocombine, C. C. Wang, PO2:Mar 71:281:7980
Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069
Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87
A Study On Construction Of Floating Breakwaters Or Floating Platforms, Tae Sang Won, CEO-II:70: 943
Sustained and Cyclic Loading of Concrete Columns, Jostein Hellesland and Roger Green, ST4:Apr 71: 1113:8033
Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564
Sustained Biaxial Load on Slender Concrete Columns, Robert G. Drysdale and Mark W. Huggins, ST5:May 71:1423:8103
Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB: 73:III-25-793
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
Test of a Reinforced Concrete Flat Slab, D. S. Hatcher, Mete A. Sozen and Chester P. Siess, ST6: June 69:1051:6585
Tests of a Modified Reinforced Concrete Two-Way Slab, M. Daniel Vanderbilt, Mete A. Sozen and Chester P. Siess, ST6:June 69:1097:6587
Tests of a Two-Way Reinforced Concrete Floor Slab, William L. Gamble, Mete A. Sozen and Chester P. Siess, ST6:June 69:1073:6586
Tests of Concrete Columns in Torsion, Ganpat S. Pandit and Manak B. Mawal, ST7:July 73:1409: 9850
Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867
Tests of Flat-Plate Corner Column-Slab Connections, E. Ramzy F. Zaghlool and H. A. Rawdon de Paiva, ST3:Mar 73:551:9616
Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73: 335:9627
Tests of One and Two-Story Flat Plate Models, C. Trevor Harnden, ST3:Mar 74:513:10392
Tests of Reinforced Concrete Flat Plate Floors, E. Ramzy F. Zaghlool, H A. Rawdon de Paiva and Peter G Glockner, ST3:Mar 70:487:7147
Tests on Steel-Frame, Shear-Wall Structures, Sauren N.G. Majumdar and Peter F. Adams, ST4:Apr 71: 1097:8031
Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687: 9428
Three Support Systems Used to Build Bridge Substructure, Kristian Tonning, CE:Dec 71:43
Tilt-Up Wall Construction Speeds Warehouse Construction, CE:June 74:58
Time Dependent Behavior of Concrete Beams, John D. Mozer, Kurt H. Gerstle and Leonard G. Tulin, ST3:Mar 70:597:7157
Time-Dependent Reinforced Concrete Slab Deflections, Andrew Scanlon and David W. Murray, ST9:Sept 74:1911:10833
Torsion-Bending-Shear Interaction for Concrete Beams, Lennart Elfgren, Inge Karlsson and Anders Losberg, ST8:Aug 74:1657:10749
Torsion of Cylinders with Multiple Reinforcement, You-Ming Kuo and Harry D. Conway, EM2:Apr 74:221:10460
Torsion, Shear, and Bending on Stirruped L-Beams, Umakanta Behera and Phil M Ferguson, ST7:July 70:1271:7419
Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
Ultimate Deformation of Reinforced Concrete, Minoru Yamada, TB:73:III-22-467
Ultimate Strength of Concrete Box Girder Bridge, Jack G. Bouwkamp, Alexander C. Scordelis and S. Tanvir Wasti, ST1:Jan 74:31:10293
Ultimate Torque of Rectangular Reinforced Concrete Beams, Ganpat S. Pandit, TN: ST9:Sept 70:1987: 7503
Undersea Oil Storage Tank, Robert S. Chamberlin, CE:Aug 70:57
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
Use of Thin Shells for Tall Buildings, Jacques Nasser, TB:73:Ia-3-643
What Do We Know About Torsion in Concrete Members, Paul Zia, ST6:June 70:1185:7372
Yield Criterion for Reinforced Concrete Slabs, Satish Jain and John B. Kennedy, ST3:Mar 74:631:10409

Concrete Blocks

Bearing Capacity of Concrete Block or Rocks, Wai F. Chen and Daniel C. Drucker, EM4:Aug 69:955: 6742
Reinforced Masonry Bearing Walls Used in 13-Story Buildings, Robert F. Higgins, CE:Nov 70:40
Stability Tests of Interlocking Block Revetment, Jay V. Hall, Jr., WW3:Aug 68:331:6079

Concrete Construction

Behavior Of Concrete Exposed To The Sea, Bryant Mather, CEO-II:70:987
Cellular Steel Floors Mature, Eugene E. Dallaire, CE:July 71:70
Concrete Containments for Reactors-State-of-Art, Chen Pang Tan, ST7:July 70:1543:7424
Concrete Dam Horizontal Joint Cleaning, Mac W. Lutz, RCCD:70:317
Concrete Placement, Split Level-No Vertical Joints, Otto R. Lum, RCCD:70:213
Ductile-Frame Tie Bars, John T. Merrifield and Albert P. Jensen, CE:Nov 71:52
Dworshak Dam: Advanced Systems for Producing Aggregates and Placing Concrete, G. M. Shupe, CE:Mar 69:35
Earthquake-Resistant Reinforced-Concrete Buildings, Paul Rogers, CE:Aug 71:32
Limit Design of Reinforced Concrete Frames, M. Z. Cohn, ST10:Oct 68:2467:6197
Longest Prestressed Girders for New York City Bridge, Robert Cuccioli, CE:Apr 71:72
Prestressed Rock Anchors and Shotcrete for Large Underground Powerhouse, Michel Buro, CE:May 70:60
Requirements For Efficient Concrete Placement, Edward E. Hershberger, RCCD:70:15
Testing Of Large Curved Prestressing Tendons, Gunnar A. Harstead, Richard E. Kummerle, John C. Archer and Mark M. Porat, PO2:Mar 71:475: 7966
Torsion of Perforated Concrete Shafts, Riko Rosman, ST5:May 69:991:6578
Vibration And Placement Of Concrete, Raymond A. Hanson, RCCD:70:313

Concrete Dams

Concrete Dam Horizontal Joint Cleaning, Mac W. Lutz, RCCD:70:317
Concrete Dams Built Without Contraction Joints, Roy W. Carlson, RCCD:70:187
Concrete Placement, Split Level-No Vertical Joints, Otto R. Lum, RCCD:70:213
DASHEVEYOR Application In Concrete Dam Construction, L. G. Janzow and D. F. Evans, II, RCCD:70:297
Precast Concrete for Cladding on Mass Concrete, Arthur R. Anderson, RCCD:70:309

Preplaced Aggregate Concrete In Dam Construction, John C. King, RCCD:70:203
Ribbon Batch and Conveyor Placing Systems for Concrete Dams, Robert F. Oury, RCCD:70:281
Vibration And Placement Of Concrete, Raymond A. Hanson, RCCD:70:313
What, Why and Where Of The Design And Construction Of Gravity Dams, William R. Waugh, RCCD:70:173

Concrete Durability
Estimation of Pavement Surface Freezing Indices, Lyle K. Moulton and James H. Schaub, TE4:Nov 69:587:6871
Precast Concrete for Cladding on Mass Concrete, Arthur R. Anderson, RCCD:70:309
Quick Quality Testing of Concrete, Peter Smith, CE: Aug 70:52
Strength at Diagonal Cracking under Uniform Load, Madhujit Mukhopadhyay, TN: ST9:Sept 74:1989: 10775

Concrete Linings
Deterioration of Concrete Ditch Liners in Saline-Alkali Soil, Luther B. Grass and Paul Koluvek, IR4: Dec 74:477:10997

Concrete Mixes
Alkali-Silica Reaction: A Major Cause of Concrete Deterioration, Joseph D. Walters, IMROD:Sept 73: 464
Concrete Production and Placing at Gordon Dam, Tasmania, Henry H. Thomas, ECCD:72:299
Current Field Research Program on Shotcrete, Harvey W. Parker, SUSS:July 73:330
New Dam Construction Concept, Otto R. Lunn, ECCD:72:307
Shotcrete Durability and Strength - A Practical Viewpoint, Jan A. Blanck, SUSS:July 73:320
Volumetric Proportioning, Blending, and Mixing, Ralph W. Coho, Jr., SUSS:July 73:101

Concrete Pavements
Breaking Load for Rigid Pavement, K. K. Ghosh and M. Dinakaran, TE1:Feb 70:87:7108
Buckling of Continuously Supported Beams, Arnold D. Kerr, EM1:Feb 69:247:6422
Continuous Reinforcement in Airport Concrete Pavements, Frederick A. Antonelli, CE:Dec 69:62
Fatigue Concepts for Concrete Airport Pavement Design, Robert G. Packard, TE3:Aug 74:567:10702
Finite Element Analysis of Pile-Supported Pavement Structures, Raman Pichumani, John E. Crawford and George E. Triandafilidis, TE2:May 74:293: 10516
New Paving Concept for Newark Airport, Nai C. Yang, CE:Sept 70:95

Concrete Piles
Breakwater Built With Concrete Piles, Thomas F. Plodowski, CE:Apr 72:80
Building Settlement on End-Bearing Driven Piles, Amos Komornik, Gdalyah Wiseman and Joseph G. Zeitlen, PES:72:I-1135
Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834
High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985
Long Prestressed Piles, E. W. Alley, CE:Apr 70:50
Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941
Settlements of Pile Groups, Bengt B. Broms, PES:73: III-181
Three Support Systems Used to Build Bridge Substructure, Kristian Tonning, CE:Dec 71:43

Concrete Pipes
Concrete Pipe Culvert Behavior - Part 2, Raymond Eugene Davis and Alfred E. Bacher, ST3:Mar 74: 615:10408
Concrete Pipe Culvert Behavior—Part 1, Raymond Eugene Davis, Alfred E. Bacher and John C. Obermuller, ST3:Mar 74:599:10404
Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, Marshall U. Bagwell, CE: Feb 73:45
Manning n for Cast-in-Place Concrete Pipe, Thomas T. Wilson, Jr. and Edib Kirdar, HY3:May 69:995: 6575
P-delta and Axial Column Deformation in Aseismic Frames, Subhash C. Goel, ST8:Aug 69:1693:6738
Sealing Leaks in Pipelines with Ammoniated Waters, Kenneth K. Tanji, L. D. Doneen and J. V. Kubes, IR1:Mar 69:171:6473
Submarine Floats in Steel Pipe Liner, Merrill R. Cotten, CE:Dec 70:28
What's New in Water and Sewer Pipe, Kneeland A. Godfrey, Jr., CE:Oct 70:46

Concrete Placing
Air Conveyed Concrete -- A Unique Cost-Saving System for Mixing and Placing Concrete, Reg A. Anderson and Fred N. Mueller, ECCD:72:273
Application of Slip Form Techniques to Dam Construction, J. F. Camellerie, ECCD:72:223
Concrete Dam Construction Practices, Marcello Garavaglia, ECCD:72:467
Concrete Production and Placing at Gordon Dam, Tasmania, Henry H. Thomas, ECCD:72:299
Conveying Concrete to Lower Dam Construction Costs, James L. Cope, ECCD:72:247
Developments in Cement Technology, George Verbeck, ECCD:72:33
Introductory Remarks, Robert E. Philleo, ECCD:72: 31
Movement and Distribution of Concrete by J. R. Illingworth (Book Review), Walter F. Conlin, Jr., CE:Oct 72:18
New Dam Construction Concept, Otto R. Lunn, ECCD:72:307
Recent Concrete Developments in the Corps of Engineers, John W. Morris, ECCD:72:15
Summary of the Conference, Arthur J. Fox, Jr., ECCD:72:521

Concrete Plants
Plant Layout for Economical Concrete Dam Construction, Clarence L. Gallimore, ECCD:72:209

Concrete Products
Continuous Beams With Prestressed Reinforcement, Alfred G. Bishara, George E. Mason and Filomeno N. Almeida, ST9:Sept 71:2261:8387
Economical Design of Reinforced Concrete Slabs and Walls, Balbir S. Sandhu, CE:July 71:68
Flexural Behavior Of Ferro-Cement Panels, Wen F. Chang, D. W. Gibson and N. R. Gibbons, CEO-II: 70:1023

Concrete Properties
Determination of Concrete Properties in Old Dams, Arthur G. Strassburger, IMROD:Sept 73:477
Early Age Strength Properties of Shotcrete, Grant L. Anderson and Melvin E. Poad, SUSS:July 73:277
Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448

Concrete Retarders
Admixtures, Bryant Mather, RCCD:70:75

Concretes
Axial Load Design for Concrete Filled Steel Tubes, Robert B. Knowles and Robert Park, ST10:Oct 70: 2125:7597
Basic Structural Design of Concrete Chimneys, Wadi S. Rumman, PO3:June 70:309:7334
Bearing Capacity of Concrete Block or Rocks, Wai F. Chen and Daniel C. Drucker, EM4:Aug 69:955: 6742
Behavior of Concrete Under Varying Strain Gradients, I. Demir Karsan and James O. Jirsa, ST8:Aug 70:1675:7484
Behavior of Prestressed Composite Beams, Ronald S. Reg and Nat W. Krahl, ST6:Dec 67:87:5663
Behavior of Wood-Concrete Composite Beams, George Pincus, ST10:Oct 70:2009:7592

Bonded Wood-Concrete T-Beams, George Pincus, ST10:Oct 69:2265:6842

Bridge Deck Protection and Resurfacing, Roland A. Pettitt, ST4:Apr 70:791:7217

Compression-Tests on Hoop-Reinforced Concrete, Norman F. Somes, ST7:July 70:1495:7417

Concrete Deep Submergence Hollow Shell Structures, Jerry D. Stachiw, ST12:Dec 69:2931:6982

Costs of Lightweight Concrete and Other Materials in Various Building Types, E. Vernon Konkel, CE: Apr 69:65

Creep Deflection of Reinforced Concrete Beams, Charles A. Miller and Sidney A. Guralnick, ST12: Dec 70:2625:7768

Detroit Metropolitan Wayne County Airport, Lin Y. Huang, CE:July 70:55

Dworshak Dam: Advanced Systems for Producing Aggregates and Placing Concrete, G. M. Shupe, CE:Mar 69:35

Extensibility of Concrete and Theorems of Limit Analysis, Wai F. Chen, EM3:June 70:341:7369

Failure Probabilities of Reinforced Concrete Beams, James F. Costello and Kuang-han Chu, ST10:Oct 69:2281:6848

Fracture Mechanism in Concrete: How Much do We Know?, Sandor Popovics, EM3:June 69:531: 6604

Investigation of Deteriorated Concrete Arch Dam, David Pirtz, Arthur G. Strassburger and Richard C. Mielenz, PO1:Jan 70:23:6997

Modern Design of Concrete Pavements, Phil Fordyce and W. A. Yrjanson, TE3:Aug 69:407:6726

Newtown Creek Docking Facilities, George Netch, CE:June 69:64

Photoelastic Analysis of Concrete Storage Tanks, Robert Mark and David P. Billington, ST9:Sept 69: 1939:6791

The Rheology of Fresh Concrete, Alistair G.B. Ritchie, CO1:Jan 68:55:5752

Shrinkage and Shrinkage Restraints in Concrete Pavements, Shigeyoshi Nagataki, ST7:July 70:1333: 7402

Steel-Encased Expansive Cement Concrete Column, Vitelmo V. Bertero and Saad E. Moustafa, ST11: Nov 70:2267:7660

Study of Pipe with Concrete Bedding-Part II, Harvey C. Olander and Gordon G. Robertson, TE1:Feb 70: 25:7087

Sulfuric Acid Attack on Concrete Sewer Pipe, Alvin H. Meyer and William B. Ledbetter, SA5:Oct 70: 1167:7624

Wood Design Criteria for Concrete Formwork, King Royer, CO2:Sept 67:13:5432

Concrete Slabs

Absolute Minimum Volume Of Reinforcement In Slabs, George I.N. Rozvany and Sai R. Adidam, TN: ST5:May 72:1217:8896

Behavior of Simply Supported Slabs, Murray A. Muspratt, ST12:Dec 69:2703:6945

Crack Width Control in Reinforced Concrete Two-Way Slabs, Edward G. Nawy and Glenn S. Orenstein, ST3:Mar 70:701:7182

Deep Slabs Subjected to Static and Blast Loading, Gayle E. Albritton, ST11:Nov 69:2449:6919

Design of a Two-Way Post-Tensioned Waffle Slab, Jerry L. McDonald, CE:May 73:64

Experimental Results of Joint Tests, Michel Kavyrchine, TB:73:III-21-323

Finite Element Analysis of Slabs on Elastic Solids, Yang H. Huang, TE2:May 74:403:10535

High-Rise Panel Structures, Matthys P. Levy and Istvan S. Varga, ST5:May 72:975:8894

Old Hall Street Development -- Liverpool, Alastair J.M. Soane, TB:73:C-P-231

Pattern Loading on Reinforced Concrete Floor Slabs, James O. Jirsa, Mete A. Sozen and Chester P. Siess, ST6:June 69:1117:6588

Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654

Rapid Concrete Pavement Replaced in 1-1/2 Hours, Jens E. Simonsen, CE:Apr 74:62

The Shear Strength of Reinforced Concrete Members—Slabs, by the Joint ASCE-ACI Task Committee 426 on Shear and Diagonal Tension of the Committee on Masonry and Reinforced Concrete of the Sturctural Division, Neil M. Hawkins, Chmn., ST8:Aug 74:1543:10733

Slabs with Variable Straight Reinforcement, George I. N. Rozvany and Donald E. Charrett, ST5:May 71: 1521:8095

Strength Analysis of Corner Column-Slab Connections, E. Ramzy F. Zaghlool, ST1:Jan 73:53: 9471

Test of a Reinforced Concrete Flat Slab, D. S. Hatcher, Mete A. Sozen and Chester P. Siess, ST6: June 69:1051:6585

Tests of Flat-Plate Corner Column-Slab Connections, E. Ramzy F. Zaghlool and H. A. Rawdon de Paiva, ST3:Mar 73:551:9616

Tests of Reinforced Concrete Flat Plate Floors, E. Ramzy F. Zaghlool, H A. Rawdon de Paiva and Peter G Glockner, ST3:Mar 70:487:7147

Time-Dependent Reinforced Concrete Slab Deflections, Andrew Scanlon and David W. Murray, ST9:Sept 74:1911:10833

Two-Way Slab System with Beams, Phil M. Ferguson, CE:Aug 74:90

Yield Criterion for Reinforced Concrete Slabs, Satish Jain and John B. Kennedy, ST3:Mar 74:631:10409

2001 Bryan Street Tower, Neuhaus & Taylor, TB:73: C-P-282

Concrete Structures

Column-Plate Interaction in Flat Slab Structures, Dieter D. Pfaffinger, ST1:Jan 72:307:8670

Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7

Composite Steel-Concrete Building Frame, Don Belford, CE:July 72:61

Construction Of Large Concrete Ocean Structures, Ben C. Gerwick, Jr., CO1:Mar 71:1:7991

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64

Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79

Optimum Design of Reinforced Concrete Tanks, Robert E. Melchers and George I. N. Rozvany, EM6:Dec 70:1093:7739

Quake Lesson from Managua: Revise Concrete Building Design, Mark Fintel, CE:Aug 73:60

Tallest Smoke Stack for Mitchell Plant, William W. Stelle, CE:Mar 69:44

Uniqueness Theorem for Nonlinear Plane Frames, Om Dutt and Niels C. Lind, ST6:June 70:1061: 7330

Unreinforced Masonry Load-Bearing Walls, Kenneth P. Buchert, CE:Dec 73:64

Concrete Technology

Book Review: Design Of Connections For Precast Prestressed Concrete, George D. Nasser, CE:Sept 73:38

Concrete Tests

Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749

Condensers (Liquefiers)

Optimization of Circulating Water System, R. S. Gupta and Bruce R. Webber, PO1:May 73:235: 9756

Waste Heat Disposal from Power Generating Stations, F. Stewart Brown, PO3:June 70:277:7317

Conduits

Angat Project - The Leak in Tunnel Two, Wallace A. Waldorf, PO4:Dec 71:799:8571

Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327

Cement Stabilized Fill for Conduit Support, Richard B. Catanach and Thomas N. McDaniel, TN: SM6: June 71:959:8162

Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
Design of Fish Conserving Intake System, Dallas I. Downs and Kenneth R. Meddock, PO2:Dec 74:191:11008
Diversion by Lake Piercing Snettisham Project, Thomas E. Munsey, CE:Oct 69:48
Effects of Mechanical Cleaning Operations on Flow In Large Conduits, George F. Horowitz and Nelson N. Lee, HY5:May 71:677:8110
Manning n for Cast-in-Place Concrete Pipe, Thomas T. Wilson, Jr. and Edib Kirdar, HY3:May 69:995:6575
Plastic Design of Flexible Conduits, James M. Doyle and Shih-Lung Chu, ST8:Aug 68:1935:6070
Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680
Practical Selection of Materials for Large Water Pipe, Donald P. Proudfit, TE1:Feb 69:203:6424
Resonance in Pressurized Piping Systems, Mohammad Hanif Chaudhry, HY9:Sept 70:1819:7525
Sizing of Pumped Storage Conduits, Raymond K. Sullivan, Jr., PO3:July 71:667:8252

Conferences
Book Review: Proceedings Of The ASCE Specialty Conference On Safety And Reliability Of Metal Structures, Phillip M. Schmidt, CE:June 73:32
Dsc, Call for Papers, CE:June 74:18
The Civil Engineer in the Concept Team, William H. Wisely, CE:Dec 71:37
Managua Earthquake: Lessons Learned, Hudson W. Smith, CE:Sept 74:102
Social and Environmental Factors in Design, Kneeland A. Godfrey, Jr., CE:Sept 70:48

Confidence Limits
Confidence Intervals for Ocean Wave Spectra, Leon Emry Borgman, CE13:72:I-237

Confined Water
Drainage Analysis of a Confining Formation, Leo C. Benz and Eugene J. Doering, IR73:Aug 73:225
Seepage into a Sheet Pile Cofferdam, B. S. Rama Rao and J. Visweswara Rao, HY9:Sept 73:1515:10001
Seepage Under Structure on Four Soil Strata, Charles W. Lenau, EM2:Apr 71:223:8058
Variational Principles for Flow in Porous Media, Shlomo P. Neuman and Paul A. Witherspoon, EM2:Apr 71:359:8023

Confining Pressure
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134

Conflict
Regional-Local Conflicts in Transportation Planning, Harvey R. Joyner, TE3:Aug 72:515:9136

Conformal Mapping
Analysis of Canal Seepage to Interceptor Drain, Heramb D. Sharma and Amrik S. Chawla, IR3:Sept 74:351:10819
Approximate Solution to Flow Problems Under Dams, Demetrious G. Christoulas, SM11:Nov 71:1573:8528
Complex Variable Theory and Elastic Stability Problems, Patricio A. Laura and Paul Shahady, EM1:Feb 69:59:6386
Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846
Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72:211:8737
Unsteady Flow to Bottom Drain in Bounded Aquifer, Raymond J. Krizek, Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807

Conical Bodies
Torsional Vibrations of Conical Frustum, Surendra R. Shah, EM5:Oct 71:1521:8452

Coniferous Forests
Computer Modelling of a Coniferous Forest Watershed, George B. Shih, Richard H. Hawkins and Melvin D. Chambers, IRS:Sept 72:433

Conjunctive Use
Optimal Conjunctive Use Model for Indus Basin, Mohammad T. Chaudhry, John W. Labadie, Warren A. Hall and Maurice L. Albertson, HY5:May 74:667:10550

Connecticut
Mathematical Model of Mixing in New Haven Harbor, Michael D. Disko, Robert A. Norris and Francis C. Lutz, 12CEC:71:1847
Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787
Preliminary Design and Construction Concepts for Trumbull Lake Dam, Joseph A. McElroy, ECCD:72:171

Connections (Joints)
Beam-to-Column Connections in Non-Sway Frames, J. Witteveen and C. T.J. Bakker, TB:73:II-15-386
Beam-To-Girder Connections, Vincent R. Cartelli, TB:73:II-15-371
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Column Web Strength in Beam-to Column Connections, Wai F. Chen and David E. Newlin, TN: ST9:Sept 73:1978:9968
Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, Emil Grasser and F. Daschner, TB:73:III-21-290
Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790
Experimental Results of Joint Tests, Michel Kavyrchine, TB:73:III-21-323
Factor of Safety of Connections, R. Delesques, TB:73:II-19-890
Recent Concrete Developments in the Corps of Engineers, John W. Morris, ECCD:72:15
Reinforced Concrete Beam-Column Joints, Yoichi Higashi and Yoshimasa Owada, TB:73:III-21-259
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Survey of Research on Structural Connections, Geoffrey L. Kulak, TN: ST12:Dec 74:2537:10982
Use of Curing Compounds on Horizontal Construction Joints, James R. Graham, ECCD:72:55
Vertical Wall Joints, M. Pommeret, TB:73:III-21-277
Web Buckling Strength of Beam-to-Column Connections, Wai F. Chen and Irving J. Oppenheim, TN: ST1:Jan 74:279:10264

Conservation
Can Development and Ecology be Reconciled?, John E. Skinner, CE:Apr 71:67
Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025
Conservation of Energy in Buildings, Vance L. Sailor, CO3:Sept 74:295:10795
The Energy Crisis and the Bicyclist, James L. Konski, BP73:Dec 73:576
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Engineering the Trans-Alaska Pipeline, CE:Sept 72:79
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
Environmental Issues, Effects, and Solutions, Lynn A. Brown, IR73:Aug 73:511
Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, HY11:Nov 71:1835:8523
Industry and Conservation--A Strange but Compatible Marriage, George B. Angevine, WQEF:Mar 70:45

Montana Highway and Wildlife Professions Cooperate, John C. Peters, CE:Nov 70:58
New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19
Notes on Trees and Tree Planting, Hans F. Bell, CE: July 73:77
Peat and Muck Drainage Problems, John C. Stephens, IR2:June 69:285:6603
Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173
Reservoir Operation With Imperfect Flow Forecasts, Samuel O. Russell and William F. Caselton, HY2: Feb 71:323:7931
San Francisco BCDC Revisited, E. Jack Schoop, CE: Apr 73:71
Some Environmental Effects of Drainage in Florida, William V. Storch and Robert L. Taylor, IR1:Mar 69:139:6460
Students Tackle Pollution Problems, Darrell J. Turner, CE:Sept 70:51
Tunnel Vision or Ecological View, Virginia M. Hines, IR3:Sept 71:397:8368
Urban Planning and Development of River Cities, Arnold H. Vollmer, UP1:Mar 70:59:7144
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259
A Word With the Executive Director About....The Civil Engineer and the Conservationist, William H. Wisely, CE:Feb 70:37

Consolidation

The Allowable Settlement of Structures, Hugh Q. Golder, 4PCSM:71:I171
Analyses and Performance of a Dike on Fibrous Peat, Igor Holubec and Ronald E. Langston, PES: 72:I-415
An Analysis of Consolidation Theories, Robert L. Schiffman, Albert T-F Chen and Jane C. Jordan, SM1:Jan 69:285:6370
Behavior Of Concrete Exposed To The Sea, Bryant Mather, CEO-II:70:987
The Behavior of Foundations During Construction, T. William Lambe, SM1:Jan 68:93:5740
Carbonate Cementation in Deep-Ocean Sediments, William E. Kelly, Vito A. Nacci, Mian C. Wang and Kenneth R. Demars, TN: GT3:Mar 74:383: 10420
Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Consolidation at Constant Rate of Strain, Anwar E.Z. Wissa, John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157
Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207
Consolidation of a Layer Under a Strip Load, John T. Christian, Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030
Consolidation of Clay Layer in Two Dimensions, Sivajogi D. Koppula and Norbert R. Morgenstern, SM1:Jan 72:79:8674
Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73: 365:9713
Consolidation of Porous Media with Non-Darcy Flow, James D. Schmidt and Russell A. Westmann, EM6:Dec 73:1201:10211
Consolidation Properties of Wilkinson Basin Soils, Peter T. Dzwilewski and Adrian F. Richards, TN: GT10:Oct 74:1175:10857
Consolidation-Time Relationship for Layered Clays, Yang H. Huang, TN: SM1:Jan 70:371:7022
Consolidation Under Constant Rates of Strain, Ronald E. Smith and Harvey E. Wahls, SM2:Mar 69:519:6452
Controlled Gradient Consolidation Test, John Lowe, III, Ernest Jonas and Vladimir Obrician, SM1:Jan 69:77:6327
Design of the South Island for the Second Hampton Roads Crossing, David Rafaeli, PES:72:I-361
Extended Use of Oedometer Test Data, Arnoldo J.L. Bolognesi, TN: GT9:Sept 74:1075:10774
Field Consolidation of High Ash Papermill Sludge, Robert P. Vallee and Orlando B. Andersland, GT3: Mar 74:309:10431
Field Studies of Response of Peat to Plate Loading, J. B. Forrest and I. C. MacFarlane, SM4:July 69: 949:6652
Finite Difference Analyses for Sand Drain Problems, Roy E. Olson, David E. Daniel and Thomas K. Liu, GT74:June 74:85
Fly Ash as Structural Fill, Anthony M. DiGioia, Jr. and William L. Nuzzo, PO1:June 72:77:8980
Foundation Failure of the Vankleek Hill Tower Silo, Michael Bozozuk, PES:72:I-885
Foundation Precompression With Vertical Sand Drains, Stanley J. Johnson, SM1:Jan 70:145:7019
Foundation Precompression with Vertical Sand Drains, Stanley J. Johnson, PISST:71:9
Hills Creek Dam Seepage Correction, John D. Jenkins and Duane E. Bankofier, PES:72:I-723
Interactive Graphics: Settlement and Slope Stability, Robert L. Schiffman and Jack R. Stein, ST1:Jan 71: 253:7832
Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435
Mechanisms Controlling Compressibility of Clays, Roy E. Olson and Gholamreza Mesri, SM6:Nov 70:1863:7649
New Concepts in Consolidation and Settlement Analysis, John Lowe, III, GT6:June 74:571:10623
One Dimensional Consolidation in Triaxial Cell, Adel S. Saada, TN: SM3:May 70:1085:7253
One-Dimensional Consolidation Of Layered Systems, Robert L. Schiffman and Jack R. Stein, TN: SM4: July 70:1499:7387
Performance of Briones Dam, Walter F. Anton and David J. Dayton, PES:72:I-853
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181
Plane Strain Consolidation by Finite Elements, John T. Christian and Jan Willem Boehmer, SM4:July 70:1435:7437
Precompression for Improving Foundation Soils, Stanley J. Johnson, SM1:Jan 70:111:7020
Precompression for Improving Foundation Soils, Stanley J. Johnson, PISST:71:53
A Preload of Silty Fine Sand, Warren L. Schroeder and Edward G. Worth, PES:72:I-379
Review of Collapsing Soils, John H. Dudley, SM3: May 70:925:7278
Settlement Histories of Two Pile Supported Grain Silos, Melvin T. Davisson, PES:72:I-1155
Settlements Near Excavations (In Spanish), Jesus Alberro A., 4PCSM:71:II211
Simplified Method to Calculate Settlement Beneath Footings, Max L. Calhoon, CE:Feb 72:73
Strength of Anisotropically Consolidated Compacted Clay, Kenneth L. Lee and Ross A. Morrison, SM6: Nov 70:2025:7703
Theory of Consolidation for Clays, Gholamreza Mesri and Anoushiravan Rokhsar, GT8:Aug 74: 889:10740
Undrained Strength of Anisotropically Consolidated Sand, Kenneth L. Lee and H. Bolton Seed, SM2: Mar 70:411:7136
Undrained Strength of Compacted Clay, Kenneth L. Lee and Robert J. Shubeck, SM1:Jan 71:219:7833

Consolidation Coefficient

Consolidation at Constant Rate of Strain, Anwar E.Z. Wissa, John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157
Inflection Point Method for Computing Cv, Francis R. Cour, TN: SM5:May 71:827:8087

Constraints

Buckling of Slanted Columns, Chin-Hao Chang, EM4:Aug 74:737:10738

Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Constraint Processing In Design, Richard N. Wright, Leroy T. Boyer and John W. Melin, EC5:70:801
Edge Effects in Hyperbolic Paraboloid Shells, J. G. A. Croll and J. C. Scrivener, ST3:Mar 69:457:6481
Efficient Frame Design for Stability Constraints, Karl M. Romstad and Karl H. Runge, TN: EM6:Dec 74:1286:107979
Federal Breakthrough Program Spurs Innovation in U.S. Housing Technology, Kneeland A. Godfrey, Jr., CE:Sept 70:73
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Legal and Institutional Constraints in Consolidating Irrigation Systems, George E. Radosevich, OIDS:72:349
Legal Constraints on Urban Water Systems, Neil S. Grigg, UP2:Sept 73:137:9986

Constrictions
Bed Scour at End-Dump Channel Constrictions, Bishnu Prasad Das, HY12:Dec 73:2273:10228
Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841
Quadratic Loss and Scattering of Long Waves, Chiang C. Mei, Philip L-F. Liu and Arthur T. Ippen, WW3:Aug 74:217:10754

Construction
Aesthetics of Tall Buildings, William Henderson, TB:73:Ia-1-256
Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190
Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Annotated Bibliography of State-of-the-Art Articles for Pipelines in the Ocean. Progress Report of the Task Committee on Pipelines in the Oceans, Committee on Pipeline Planning, John G. Bomba, Chmn., PITO:74:81
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180
An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB:73:Ia-4-797
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, Fritz Rafeiner, TB:73:Ia-12-1095
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
Arctic Construction Problems and Techniques, Neil T. Monney, Millard M. Hill, P. Oien, S. J. Rowland and F. L. Vail, CO1:Jan 68:89:5760
ASCE Seeks Bigger Role in Building Codes, CE:Dec 73:36
Atlanta's Instant Runway, Robert W. Richards, TE3:Aug 71:491:8306
Bachelor of Technology: Six Years Experience, John D. Antrim, Milan E. Degyansky and William A. Welsh, CEE:Feb 74:1-231
Basic Construction Principles in Higher Latitudes, Shu-T'ien Li, CO1:Mar 74:33:10399
Better Designs for Man through Teamwork, Training, Research, and Feedback, Calvin W. Taylor, ABS:71:11
Bidding Contingencies and Probabilities, Marvin Gates, CO2:Nov 71:277:8524
Bidding Models: Resolution Of A Controversy, Matthew Rosenshine, TN: CO1:Mar 72:143:8753
Bidding Models—The Final Resolution of a Controversy, John M. Dixie, CO3:Sept 74:265:10790
Bidding Stratagies and Probabilities, Marvin Gates, CO1:Mar 67:75:5159
Bidding With Competitive Strategy Models, Louis R. Shaffer and Terry W. Micheau, CO1:Mar 71:113:8008
Bidding--Work Loading Game, Paul E. Torgersen, Richard M. Wyskida and Leonard S. Yarbrough, CO2:Oct 68:127:6141
Bonded Wood-Concrete T-Beams, George Pincus, ST10:Oct 69:2265:6842
Booby Traps for Young Engineers on Construction, Edward A. Merrill, CO2:Nov 71:305:8541
Boulder Creek - An Environmental Status Report, Gerard E. Mick, CO1:Mar 74:1:10389
Bridge Construction Surveying, Ray W. Burgan, Jr., CO2:June 74:105:10602
Building Construction Games-General Description, Tung Au and Ernest W. Parti, CO1:July 69:1:6645
Burns Harbor-New Lake Port in Indiana, John H. McGavock, CE:Mar 70:36
Business Failures in Construction, John B. Shuler, CO2:Sept 67:73:5453
Caisson Construction Problems and Correction in Chicago, Clyde N. Baker, Jr. and Fazlur R. Khan, SM2:Feb 71:417:7934
Causes of Delay in the Construction Industry, John R. Baldwin, James M. Manthei, Harold Rothbart and Robert B. Harris, CO2:Nov 71:177:8501
Changed Soil and Rock Conditions in Construction, George F. Sowers, CO2:Nov 71:257:8509
Changes and Changed Conditions, Max E. Greenberg, CEWAU:74:177
Chemical Grouting for Paris Rapid Transit Tunnels, Jean J. Janin and Guy F. Le Sciellour, CO1:June 70:61:7382
Chemical Resistant Resurfacing Mortar for Industry, Dallas Grenley and Lou Kuhlmann, CO2:June 74:133:10603
Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
The City is the People--So is the Planning/Building Process, Morton Hoppenfeld, ABS:71:91
The Civil Engineer In Construction, Richard H. Clough, CE:July 73:97
Civil Engineering's Role in Construction Education, Henry W. Parker, CEE:Feb 74:1-573
Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
Civil Engineers Need Construction Education, Walter L. Meyer and Robert I. Carr, CEE:Feb 74:1-545
Closing the Last Unlicensed Gap in the Construction Process, Edward R. Fisk, CE:Sept 74:96
Code Acceptance of Unique Building Materials and Systems, Paul K. Heilstedt, CO4:Dec 74:553:11023
Commentary, Bernard P. Monahan and Reuben Samuels, CEWAU:74:78
Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
The Computer's Role in Transmission Line Design, Charles F. Beck, EC5:70:63
Computer Technology in New Line and Relocation Planning, R. A. Stane, TE3:Aug 70:291:7458
Concrete Dam Construction Using Earth Compaction Methods, Robert Williams Cannon, ECCD:72:143
Concrete Dam Design and Construction Improvements, Ellis L. Armstrong, ECCD:72:3
Concrete Formwork for Washington, D.C. Metro, John J. Bodziuch, CE:July 74:76
Concrete Frame Construction, State-of-Art Report 6, W. S. Bellows, Jr., TB:73:Ia-4-777
Conservation of Energy in Buildings, Vance L. Sailor, CO3:Sept 74:295:10795
Construction and Maintenance, Howard Gregg, BP73:Dec 73:155
Construction as an Option within Civil Engineering, George E. Mason and Russel C. Jones, CEE:Feb 74:1-620
Construction Contracting Systems, by William J. Gregg, Philip G. Read, and Ralph C.nash, Jr. (Book Reviewe, Donald A. Patrick, CE:Feb 71:14
Construction Control by Programmetric Methods, George P. Katibah, SU1:Oct 69:1:6809
A Construction Co-op Educational Program, Keith F. Faherty and William E. Kissner, CEE:Feb 74:1-637

Construction Cost and Design Considerations, John W. Leonard, RCCD:70:31
Construction Cost of Expressways, Barbara A. Huvane, TE2:May 71:173:8113
Construction Course for Junior High Schools, Donald G. Lux and Willis E. Ray, CE:May 71:37
Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538
Construction Education at North Carolina State, George H. Blessis, CEE:Feb 74:1-613
Construction Education in Civil Engineering, Herbert W. Busching and J. Pat Cecil, CEE:Feb 74:1-607
Construction Engineering and Management (Discussion), Ben C. Gerwick, Jr., CEE:Feb 74:2-310
Construction Expediting, Arthur Monsey, CO1:June 70:19:7356
Construction Innovations at Dworshak Dam, Edward E. Hershberger, CO3:Sept 74:303:10793
Construction Innovations In Reclamation Work, Bernard P. Bellport, CO1:Mar 71:79:7999
Construction in South America, State-of-Art Report 5, Sergio E. Pellegrini, TB:73:Ia-12-1135
Construction Management Game-Deterministic Model, Tung Au, Richard L. Bostleman and Ernest W. Parti, CO1:July 69:25:6647
Construction Management Works at Federal Hospital, Jerry Kosro, CE:Jan 74:40
Construction Noise-Its Origin and Effects, Alan S. Hersh, CO3:Sept 74:433:10827
Construction of Deep Foundations, William F. Swiger, PES:73:III-207
Construction Of Large Concrete Ocean Structures, Ben C. Gerwick, Jr., CO1:Mar 71:1:7991
Construction of Large Prestressed Concrete Girders, J. Neil Mustard and Ram S. Ghosh, CO4:Dec 74:507:10994
Construction Of Multibarrier Containment Vessels, Delbert M. Leppke, C. Alexander and Robert S. Webb, CO1:Mar 71:53:8002
Construction of Prestressed Concrete Structure, by Ben C. Gerwick, Jr. (Book Review), Shu-T'ien Li, CE:Feb 72:18
Construction Over Water—Fill or Piles?, Jacob Feld and Robert C. Johnston, CE:Aug 74:54
Construction Personnel Management, Henry J. Nave, Jr., CO1:Jan 68:95:5765
Construction Planning in South East Asia, Omar E. Rood, Jr. and John L. Richards, CO2:Sept 72:331:9217
Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295
Construction Practice for Hot-Mix Bituminous Pavements, Report of the Subcommittee on Construction of the ASCE Committee on Airfield Pavements, Henry Aaron, Chmn., AT1:Nov 68:31:6251
Construction Productivity and Job Satisfaction, John D. Borcherding and Clarkson H. Oglesby, CO3:Sept 74:413:10826
Construction Solid Waste, David A. Spivey, CO4:Dec 74:501:10993
Construction Surveys for Merced River Project, Arthur R. Reitter and Robert N. Janopaul, SU2:Sept 68:203:6104
Construction Systems for Concrete Dams, Albert D. Parker, ECCD:72:219
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
Consturction Practices in the U.K., G. G.K. Smith, TB:73:Ia-4-816
Containerport Engineering for the Port of Oakland, E. F. Nielsen, CE:Jan 69:40
Containment Structure For Trojan Nuclear Plant, Jacob K. Aldersebaes and Karl Wiedner, PO2:Mar 71:351:7957
Continuing Education for the Contractor Owner, Emmett H. Karrer, CEE:Feb 74:1-858
Continuing Education in the Strategic Air Command, William A. Orth, Colonel, CEE:Feb 74:1-874
Continuing Education of Construction Management Personnel, Kenneth R. Ware, CEE:Feb 74:1-881
Control of Quality-A System, Edward A. Abdun-Nur, CO2:Oct 70:119:7576
Control of the Construction Process, State-of-Art Report 2, Richard C. Halpern, TB:73:Ia-4-689
The CPM-by-Calendar Algorithm, John B. O'Shea, CO2:Oct 68:139:6142
CPM Use in Top 400 Construction Firms, Edward W. Davis, CO1:Mar 74:39:10395
Critical Need for Civil Engineering Technicians, Ellis Vieser, CE:Aug 69:61
Cross-Country Pipeline Construction, Frederick J. Seeger and John A. Havers, TE4:Nov 70:603:7667
Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-European Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB:73:II-13-37
Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72:311:8858
Design and Construction of Mossyrock Penstocks, Edgar T. Moore, PO1:Jan 71:49:7799
Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Design Concepts: Rapid Construction Of Arch Dams, Merlin D. Copen, RCCD:70:113
Design Construction and Performance of Cellular Cofferdams, Yves Lacroix, Melvin I. Esrig and Ulrich Luscher, LS:70:271
Design, Construction and Performance of Sesquile Dam, Tomas Shuk, Ricardo Cajiao and Jesus M. Sierra, SM1:Jan 70:177:6996
Design Improvements in Concrete Dams, J. Laginha Serafim, RCCD:70:371
Design of Embankments on Peat, Gerald P. Raymond, GT74:June 74:143
Designs Tailored To Accelerate Concrete Dam Construction, Gurmukh S. Sarkaria, RCCD:70:161
Development of a Curriculum in Construction Engineering, Thomas C. Jellinger, CEE:Feb 74:1-654
Development of a Professional Construction Manager, Rolland M. Wilkening, CEE:Feb 74:1-367
Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838
Development of Wells Hydroelectric Project, James G. Patrick, PO2:Mar 71:267:7967
Dewatering Case History in Florida, John H. Schmertmann, CO3:Sept 74:377:10803
Diaphragm Wall Construction Techniques, Kevin L. Nash, CO4:Dec 74:605:11025
Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837
Earthwork Quantities by Random Sampling, Marvin Gates and Amerigo Scarpa, CO1:July 69:65:6681
Economic Analysis of Housing Construction Methods, Shlomo Peer and Abraham Warszawski, CO2:Sept 72:287:9166
Education for Construction Engineering and Management, John A. Havers and Donn E. Hancher, CEE:Feb 74:1-662
Effective Contract Administration in Construction Management, Donald F. Scott, CO2:June 74:117:10599
Effects of Foundation Construction on Nearby Structures, David J. D'Appolonia, 4PCSM:71:I189
EHV-DC System Ties Los Angeles to Northwest, William M. Mahoney, PO1:Jan 71:181:7851
Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46
Emerging Trends in Construction Education - Summary Statement and Overview, Paul W. Scheele, CEE:Feb 74:2-104
Energy Conservation, Noise, and Vibration Control in Construction of Floating Offshore Power Plants, James A. O'Kon, TN: CO2:June 74:195:10570
Engineer/Builder's Approach to Continuing Education, Richard M. Collins, CEE:Feb 74:1-816

Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
Engineering Services for Construction, Altaf Hussain, CO3:Sept 74:273:10787
Envirionment and Construction Management Engineers, David A. Spivey, CO3:Sept 74:395:10804
Environmental Design and Construction Response on Highway Relocations for Mountain Reservoir, Phillip L. Cole and Sydney Steinborn, CO1:Mar 74:7:10398
Environmental Protection Measures at Martis Creek Lake, California, Joseph C. Sciandrone, CE:Mar 74:80
Estimation of Wave Parameters at Marine Construction, Yu M. Krylov, S. S. Strekalov and V. F. Tsyploukhin, TN: WW4:Nov 71:793:8491
Excelling as a Construction Contractor, Altaf Hussain, CO4:Dec 74:621:11029
Falsework Failures; Can They be Prevented?, Arthur L. Elliott, CE:Oct 73:74
Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839
Final Committee Position on The AGC's Recommendation that Approved Securities be Posted in Lieu of Retained Percentages, by the Committee on Contract Adminstration of the Construction Division, Robert D. Rowland, Chmn., CO2:Nov 71:271:8517
Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475
Flathead Railroad Tunnel Construction, Hans Sacrison, CO1:Mar 71:127:8009
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845
Formal Education in Construction Management, Abraham Warszawski, CO2:Sept 72:251:9164
Forty Years of Engineered Construction, Hal W. Hunt, CE:Oct 70:57
Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834
Foundations for Salem Nuclear Generating Station, Muzaffer Kehnemuyi, CE:May 70:52
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103
Geomechanical Instrumentation in Mexico Tunnels, Derek F. Berry, URC:72:51
Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, Marshall U. Bagwell, CE:Feb 73:45
Government Offices and Conference Center (Nairobi), Gordon Melvin & Partners, TB:73:C-P-436
Grain Storage Structures for Food Deficient Areas, Alexander M. Turitzin, ST10:Oct 69:2161:6835
Ground Freezing in Construction, Frederick J. Sanger, SM1:Jan 68:131:5743
Hardinge Bridge Span Repair, Amitabha Ghosal, Jagadish C. Ganguly, Himangsu K. Banerjee and Mahesh P. Kapoor, CO4:Dec 74:631:11034
Heave and Lateral Movements Due to Pile Driving, D. Joseph Hagerty and Ralph B. Peck, SM11:Nov 71:1513:8497
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067
High Rise Construction in France, State-of-Art Report 4B, Jean A. Roret, TB:73:Ia-4-741
Homestake Delivery System Pipeline, Donald E. Campbell, Thomas A. Marlow and Roy L. Wright, PL2:July 67:71:5353
Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, Eugene P. Holland, TB:73:III-25-805
How Industry Has Accepted the Oregon State University C.E.C. Construction Program Graduates, Harold D. Pritchett and William T. Peckham, CEE:Feb 74:1-670
How To Keep Concrete Dams Competitive, W. Ter Minassian and Pierre Londe, RCCD:70:395
Impact of OSHA on Designers, Vernie G. Lindstrom, CE:July 73:85
Dsc, Industrial Relations and Manpower in Construction, by Daniel Quinn Mills (Book Review), Glenn Vogelein, CE:Sept 72:38
Influence of Rapid Construction On Concrete Dam Costs, Gurmukh S. Sarkaria, RCCD:70:39
Information Utilization in Project Planning, Donald E. Kawal, CO2:Nov 71:227:8505
Inspection Practices for Tall Buildings, Lowell A. Napper, TB:73:Ib-9-898
Integrating Construction with Engineering, Ben C. Gerwick, Jr., CEE:Feb 74:1-598
An Interdisciplinary Graduate Program, Robert Burnham, Volker Hartkopf, Edward M. Krokosky and Irving J. Oppenheim, CEE:Feb 74:1-179
Introduction to the ASCE Recommended Practice for the Design and Construction of Steel Chimney Liners, Robert W. Mikitka and Randy W. Snook, EPCE:Aug 74:41
Introductory Remarks, Robert E. Philleo, ECCD:72:31
Introductory Remarks, Merlin D. Copen, ECCD:72:169
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
Labor Cost Control, Paul Teicholz, CO4:Dec 74:561:11020
Landmark New York Cases on the Question of Liability of the State in Withholding Subsurface Information, Thomas B. Treacy, CEWAU:74:195
Land Reclamation and Groin-building in the Tidal Flats, Heie Focken Erchinger, 12CEC:71:1041
Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867
The Law -- The Letter and the Spirit -- Introduction, M. D. Morris, CEWAU:74:161
Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
Legal Aspects of Architecture, Engineering, and Construction Process, by Justin Sweet (Book Review), Joseph Kaming, CE:Mar 71:10
Management in the Construction Industry --A New M.I.T. Program, William A. Litle, CEE:Feb 74:1-589
Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275:9204
Masonry Construction Operations, Clayford T. Grimm, CO2:June 74:171:10630
Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477
Mathematical Model for Aggregate Plant Production, Donn E. Hancher and John A. Havers, TN: CO1:Mar 71:171:7972
Mechanical Equipment at Edmonston Pumping Plant, Samuel Fong, CO3:Sept 74:279:10794
Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
Model Form of "Instructions To Bidders," by the Committee on Contract Administration of the Construction Division, Woodrow W. Wilson, Chmn., CO1:Mar 74:27:10407
Model Form of 'Notice to Bidders', Woodrow W. Wilson, Chmn., CO3:Sept 74:373:10818
Model Tests and Studies For Port Rashid, Dubai, Eric Loewy, 12CEC:71:1137
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185
Multi-level Parking Structure, Elwin M. Pell, CE:Feb 69:49
Multistory Prefabricated Columns, German R. Gurfinkel, CO2:Oct 70:137:7587
Multi-year Construction Contracts, Donald A. Patrick, CE:Jan 71:65

Network Analysis and Construction Planning, Shlomo Peer, CO3:Sept 74:203:10792

Networking Methods for Project Planning and Control, Antoine E. Naaman, CO3:Sept 74:357:10814

Newark Airport Redevelopment Program, John P. Veerling, AT1:Nov 68:19:6244

New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712

New Interdisciplinary Program in Construction Management at WPI, A. Fattah Chalabi, CEE:Feb 74:1-645

New Method for Deep Sand Vibratory Compaction, Robert D. Anderson, CO1:Mar 74:79:10429

New Methods in Construction Systems, R. Richard LeVitt, CO3:Sept 74:211:10788

The New Newark International Airport, CE:Sept 74:74

Noise Control at Construction Sites, Herbert G. Poertner, ECCD:72:375

Notes on The Construction Of The Alpe Gera Dam, Guilio Gentile, RCCD:70:349

Offshore Developments that Minimize Environmental Impact, Charles J. Lord, CO2:June 74:159:10610

OPBID: Competitive Bidding Strategy Model, Thomas L. Morin and Richard H. Clough, CO1: July 69:85:6690

Optimal Construction Staging by Dynamic Programming, Monroe L. Funk and Frank A. Tillman, HW2:Nov 68:255:6215

Optimal Highway Staging by Dynamic Programming, Richard de Neufville and Yasuo Mori, TE1:Feb 70:11:7080

Optimizing Haul Fleet Size Using Queueing Theory, Fletcher H. Griffis, CO1:Jan 68:75:5753

Optimum Life of Equipment for Maximum Profit, James Douglas, CO1:Jan 68:41:5745

Optimum Replacement Life Of Large Scrapers, Charles R. Schrader, CO1:Mar 71:37:8000

Outline of Research Requirements for Construction, W. F. Burkart, CO2:Oct 68:233:6189

Owner's Return from CPM-Fact or Fiction, Lewis W. McBride, CO1:June 70:1:7316

Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82

Pavement Evaluation by Wave Propagation Method, Keshavan Nair, TE1:Feb 71:83:7900

PennState Civil Engineering Construction Education, Jack H. Willenbrock, CEE:Feb 74:1-628

Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201:9188

Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72:1255:8937

Philadelphia-Lindenwold High-Speed Line Surveys, Carl E. Hultin, SU1:May 71:7:8096

Planning and Construction of an Ellipsoidal Dome, Joseph F. West, CO2:Oct 68:113:6129

Planning and Desing of Tall Buildings, Lynn S. Beedle, Chmn. and Le-Wu Lu, Chmn., TB:74, 5200pp.

Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045

Planning Construction of Repetitive Building Units, Robert I. Carr and Walter L. Meyer, CO3:Sept 74:403:10812

Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59:9844

Planning Monitoring Frequencies for CPM Projects, Douglas Vasco Costa, CO2:Nov 71:211:8503

Polymer-Cement Concretes for Field Construction, Sandor Popovics, CO3:Sept 74:469:10806

Port Construction At Burns Waterway Harbor, John H. McGavock, Norman R. Loesing and Elvis R. Dye, CO1:Mar 71:17:7990

Practical Applications of Codes in Construction of Pipelines, David R. Williams, Jr., TE4:Nov 70:471:7657

Precast Concrete Tunnel Linings for Toronto Subway, John V. Bartlett, Ted M. Noskiewicz and James A. Ramsay, CO2:Nov 71:241:8498

Predicted and Meausred Displacements for Tunnels, William R. Judd and William H. Perloff, URC:72:487

Preliminary Design and Construction Concepts for Trumbull Lake Dam, Joseph A. McElroy, ECCD:72:171

Preliminary Design and Construction Concepts for Auburn Dam, James Legas, ECCD:72:181

Preliminary Design and Construction Concepts for Crystal Dam, James Legas, ECCD:72:191

Prestressed Concrete Simplifies Construction of Breakwater/Wharf, C. A. Ponder and P. S. Belyea, CE:Jan 69:58

Probabilistic Approach to Estimating and Cost Control, Antonio J. Vergara and LeRoy T. Boyer, CO4:Dec 74:543:11021

Probilistic Estimating, James E. Spooner, CO1:Mar 74:65:10406

Problems Related to the Construction of Dam Foundation from a Contractors' Viewpoint, John W. Leonard, EFFD:Mar 74:105

Professional Athletics -- Introduction, M. D. Morris, CEWAU:74:73

Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656

A Profile of the Future Construction System, Joseph C. Kellogg, CO1:Mar 71:147:7938

Progress Model for Construction Activity, Robert I. Carr, Thomas O. Brightman and Franklin B. Johnson, CO1:Mar 74:59:10428

Project Planning and Control by Time-Sharing Computer, Norman L. Scott and Edward L. Murphree, CO1:Mar 72:37:8758

Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830

Project Planning Game for Foundation Excavation, Tung Au and Ernest W. Parti, CO1:July 69:11:6646

Project Selection Based on Benefits and Costs, Michael Raymond Toakley and John F. Brotchie, CO2:Sept 72:149:9163

Properties of Slightly Organic Topsoils, Robert D. Holtz and Raymond J. Krizek, CO1:June 70:29:7358

Property Development in Modern Communitites, Daniel B. Stauffer, CO1:Jan 68:35:5741

Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60

Rate of Work Method: Simplified Project Control, John A. Cunningham and Edward P. Yarmowich, CE:Nov 73:62

Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836

Recent Results in French Research on Reinforced Earth, Francois Schlosser and Nguyen-Thanh-Long, CO3:Sept 74:223:10800

Rehabilitation of Offshore Platforms, John J. Givens and Greg Carter, CE:Apr 70:47

Repair of Earthquake Damaged Underground Reservoir, Daniel J. Smith, Jr., CO3:Sept 74:449:10825

Report on Recommended Amendments to AIA General Conditions (A-201), Eleventh Edition, September, 1967, by the Committee on Contract Administration of the Construction Division, Robert D. Rowland, Chmn., CO2:Oct 70:165:7640

Requirements of Construction Company Cost System, Paul Teicholz, CO3:Sept 74:255:10786

Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781

Revetment Construction by Fabriform Process, Bruce A. Lamberton, CO1:July 69:49:6677

Reward-Risk Ratio, Marvin Gates and Amerigo Scarpa, CO4:Dec 74:521:10984

The Rheology of Fresh Concrete, Alistair G.B. Ritchie, CO1:Jan 68:55:5752

Role of Contract and Specifications in Foundations Construction, Max E. Greenberg, CO2:June 74:113:10607

Role of Specifications in Foundation Construction, Walter S. Douglas, TN: CO2:June 74:198:10570

Safety in Construction—The Contractor's Viewpoint, John E. Witte, TN: CO3:Sept 74:497:10773

Safety in Construction: Whose Responsibility, Joseph Goldbloom, CE:Nov 69:42
Saint Louis Bay Bridge, Richard E. Whitaker, CO2: Oct 70:149:7588
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73: 81:9832
Seacoast Dam Separates Saltwater and Fresh, Chris C. Ziogas, CE:Feb 74:53
Sensitivity Analysis of Douglas Equipment Life Model, Neal B.H. Benjamin, CO1:Mar 72:61:8796
A Short Course for Inexperienced Construction Engineers, Robert J. Smith, CEE:Feb 74:1-890
Simulating Effects of Weather on Construction, Neal B.H. Benjamin and Theodore W. Greenwald, CO1: July 73:175:9888
Slurry-Trench Construction for Basement of World Trade Center, Martin S. Kapp, CE:Apr 69:36
Social Concerns—Nuclear Offshore River Basin Construction, Harlan W. Fair, CO1:Mar 74:51: 10417
Some Construction Aspects of Tarbela Dam, Morgan H. Thompson, CO3:Sept 74:247:10799
South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, Nilo Andrade Amaral, TB:73:III-20-57
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
Stability of Trenches Filled with Fluids, Kevin L. Nash, CO4:Dec 74:533:11006
Statistical Theory in Materials Sampling, Norman J. Cohen, CO1:Mar 71:95:8005
Steel Box Girder Makes Handsome Bridge, Jack P. Shedd, CE:May 73:67
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767
Steel Penstock Design For Tims Ford Dam, George E. Day and Horace S. Beckner, PO1:Jan 71:203: 7803
Stochastic Scheduling of Linear Construction Sites, Joachim Dressler, CO4:Dec 74:571:11024
Stresses in an Earth Dam due to Contruction and Reservoir Filling, Julio E. Valera and Jian C. Chen, GT74:June 74:33
Stress-Strain Analysis of El Infiernillo Dam, Jesus Alberro A., PES:72:I-837
Structural Safety—A Literature Review, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
Study of Pipe with Concrete Bedding-Part II, Harvey C. Olander and Gordon G. Robertson, TE1:Feb 70: 25:7087
A Study On Construction Of Floating Breakwaters Or Floating Platforms, Tae Sang Won, CEO-II:70: 943
Subsurface Construction Contracts—A Contractor's View, George A. Fox, CO2:June 74:153:10608
Subway Construction: Management and Costs, Thomas R. Kuesel, CE:Mar 69:60
Suction Wells Dewater Large Construction Site, Robert G. Lenz, CE:Feb 70:40
Summary of Session I -- Recent Developments in Design and Construction of Concrete Dams, Charles F. Corns, ECCD:72:25
Summary of Workshop on Foundations, Melvin A. Jabara and Paul K. Bock, IMROD:Sept 73:541
Summary Report of Questionnaire on Construction Inspection, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192
Surface Bonded Masonry Construction, Robert J. Young, TB:73:III-27-1099
Syntactic Foams for Deep Sea Engineering Applications, Israel Resnick and Aleksander Macander, CO1:June 70:45:7367
Systems Approach to Building, James R. Cagley, CE: Apr 73:59
A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286
Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
Temporary Bulk Grain Storage Structures, Alexander M. Turitzin, ST3:Mar 69:381:6459
Temporary Bypass Bridge Designed for Salvage, Alfred R. Pagan, CE:Mar 70:51
Tension Piles and Diagonal Tie-Backs, Norman L. Liver, CO1:July 69:107:6692
Theories of Closure of Rockfill Dams, John A. Sandover, CO2:Nov 71:313:8542
Thin Underwater Concrete Structures, Odd E. Gjorv, CO1:June 70:9:7326
Tidal Velocities Across A Partly-Completed Barrage, A. Roy Halliwell, HY5:Oct 67:85:5427
Tied-Back Deep Excavations in Los Angeles Area, Perry A. Maljian and James L. Van Beveren, CO3: Sept 74:337:10791
Topographic Maps for Construction Planning, Robert H. Lyddan, SU1:Apr 70:51:7221
Transporting Equipment for Grand Coulee Third Plant, Harold G. Arthur, PO2:Nov 68:125:6226
Typhoon Waves at the High Island Dam, Hong Kong, Peter Ackers, J. A.T. Aspden and J. L. Boyd, WAVES:Sept 74:523
Unique Solution for Difficult Rigging Problem, James F. Shafer, CO1:July 69:55:6680
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807
Upgrading Overseas Construction Contracts, Gordon L. Williams, CE:Dec 70:51
Urban Housing: Kaiser Committee reports, CE:Apr 69:70
Urban Renewal in White Plains, N.Y., J. Michael Divney, CE:Sept 69:69
Use of Shotcrete from the Standpoint of the Contractor, Kirk H. Fox, SUSS:July 73:22
Utility Function Determination for Bidding Models, Jack H. Willenbrock, CO1:July 73:133:9843
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72: 235:9173
Vibration of Chimney Supported on Elevated Concrete Slab, Elias G. Abu-Saba, ST2:Feb 71:619: 7936
Vibrations During Construction Operations, John F. Wiss, CO3:Sept 74:239:10798
A View of the Practice of Foundation Engineering in the United States, Elio E. D'Appolonia and John C. Regan, 4PCSM:71:II365
Weather Effects on Mason Productivity, Clayford T. Grimm and Norman K. Wagner, CO3:Sept 74:319: 10783
What's New in Concrete?, CE:Jan 74:36
What's the Deal? Government Negotiates Engineering Services, Richard H. Tatlow, III, PP1: Sept 70:81:7557
What the General Contractor Looks for in a Recent Graduate, Luther Hill, Jr., CEE:Feb 74:1-374
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58
Wood Design Criteria for Concrete Formwork, King Royer, CO2:Sept 67:13:5432
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91

Construction Control
Alkali-Silica Reaction: A Major Cause of Concrete Deterioration, Joseph D. Walters, IMROD:Sept 73: 464
Control of the Construction Process, State-of-Art Report 2, Richard C. Halpern, TB:73:Ia-4-689
Foundation Design, Theme Report, William F. Swiger, TB:73:Ia-11-849
Foundation Failure, Jacob Feld, CE:June 73:89

Construction Costs
Bidding With Competitive Strategy Models, Louis R. Shaffer and Terry W. Micheau, CO1:Mar 71:113: 8008
Construction Cost and Design Considerations, John W. Leonard, RCCD:70:31
Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, Miroslaw Gorczyca, SA6:Dec 72:987:9458
Conveying Concrete to Lower Dam Construction Costs, James L. Cope, ECCD:72:247
Cost Reduction Considerations for New Dam Projects, Bertram L. Perkins, ECCD:72:489

DASHEVEYOR Application In Concrete Dam Construction, L. G. Janzow and D. F. Evans, II, RCCD:70:297
Design Improvements in Concrete Dams, J. Laginha Serafim, RCCD:70:371
Economic Consideration for Construction, Joseph Pirtz, Jr., ECCD:72:507
Effect Of Safety Factor On Cost Of Arch Dams, Roman P. Wengler, RCCD:70:249
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877
Expressway Rapid Transit, George Krambles, TE4: Nov 72:1023:9388
How To Keep Concrete Dams Competitive, W. Ter Minassian and Pierre Londe, RCCD:70:395
Influence of Rapid Construction On Concrete Dam Costs, Gurmukh S. Sarkaria, RCCD:70:39
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
On the Need of Wave Data for the Design of Rubble-Mound Breakwaters, Yvon Ouellet, WAVES:Sept 74:500
The Optimum Gravity Dam, Jerome M. Raphael, RCCD:70:221
Panel on Owner-Engineer-Contractor Economic Considerations in Dam Construction, Geo. H. Atkinson, ECCD:72:483
Rapid Construction - Design Considerations, Alfred L. Parme, RCCD:70:151
Reinforced Masonry Bearing Walls Used in 13-Story Buildings, Robert F. Higgins, CE:Nov 70:40
Report of Workshop B's First Session, James I. Barnes, ECCD:72:329
Subway Construction: Management and Costs, Thomas R. Kuesel, CE:Mar 69:60

Construction Equipment

Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Book Review: Drilled Pier Foundations, Joseph M. DeSalvo, CE:Mar 73:40
Construction Innovations In Reclamation Work, Bernard P. Bellport, CO1:Mar 71:79:7999
Construction Noise-Its Origin and Effects, Alan S. Hersh, CO3:Sept 74:433:10827
Construction Planning in South East Asia, Omar E. Rood, Jr. and John L. Richards, CO2:Sept 72:331:9217
Crane Safety, Suzy Fisher, CE:Feb 72:61
Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838
Diaphragm Wall Construction Techniques, Kevin L. Nash, CO4:Dec 74:605:11025
Envirionment and Construction Management Engineers, David A. Spivey, CO3:Sept 74:395:10804
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845
Forty Years of Engineered Construction, Hal W. Hunt, CE:Oct 70:57
Influence of Rapid Construction On Concrete Dam Costs, Gurmukh S. Sarkaria, RCCD:70:39
Introductory Remarks, Merlin D. Copen, ECCD:72:169
New Construction Equipment and Techniques, Bruce B. Cloud, ASC73:Mar 73:181
New Methods in Construction Systems, R. Richard LeVitt, CO3:Sept 74:211:10788
Noise Control at Construction Sites, Herbert G. Poertner, ECCD:72:375
Opening Remarks, Jack W. Hilf, Chmn., ECCD:72:1
Optimum Replacement Life Of Large Scrapers, Charles R. Schrader, CO1:Mar 71:37:8000
Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73:81:9832
Sensitivity Analysis of Douglas Equipment Life Model, Neal B.H. Benjamin, CO1:Mar 72:61:8796
Some Construction Aspects of Tarbela Dam, Morgan H. Thompson, CO3:Sept 74:247:10799
Summary of Workshop A - Shotcrete Construction and Equipment, Harold E. Tibbs, SUSS:July 73:143
Vibrations During Construction Operations, John F. Wiss, CO3:Sept 74:239:10798
What, Why and Where Of The Design And Construction Of Gravity Dams, William R. Waugh, RCCD:70:173
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58

Construction Industry

Bidding Models—The Final Resolution of a Controversy, John M. Dixie, CO3:Sept 74:265:10790
Business Failures in Construction, John B. Shuler, CO2:Sept 67:73:5453
Civil Engineers Need Construction Education, Walter L. Meyer and Robert I. Carr, CEE:Feb 74:1-545
Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
Construction as an Option within Civil Engineering, George E. Mason and Russel C. Jones, CEE:Feb 74:1-620
A Construction Co-op Educational Program, Keith F. Faherty and William E. Kissner, CEE:Feb 74:1-637
Construction Course for Junior High Schools, Donald G. Lux and Willis E. Ray, CE:May 71:37
Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538
Construction Education at North Carolina State, George H. Blessis, CEE:Feb 74:1-613
Construction Education in Civil Engineering, Herbert W. Busching and J. Pat Cecil, CEE:Feb 74:1-607
Construction Engineering and Management (Discussion), Ben C. Gerwick, Jr., CEE:Feb 74:2-310
CPM Use in Top 400 Construction Firms, Edward W. Davis, CO1:Mar 74:39:10395
Development of a Curriculum in Construction Engineering, Thomas C. Jellinger, CEE:Feb 74:1-654
Engineer/Builder's Approach to Continuing Education, Richard M. Collins, CEE:Feb 74:1-816
Formal Education in Construction Management, Abraham Warszawski, CO2:Sept 72:251:9164
Future of Prestressed Concrete, W. Burr Bennett, Jr., CE:July 69:41
Grouting: Then, Now and Where, J. F. Daly, EFFD:Mar 74:57
How A Construction Industry Organization Provides Educational Opportunities, Maynard Charles Nugent, CEE:Feb 74:1-865
How Industry Has Accepted the Oregon State University C.E.C. Construction Program Graduates, Harold D. Pritchett and William T. Peckham, CEE:Feb 74:1-670
Impact of Metrication on the Construction Industy, Richard H. Clough, EI3:July 74:225:10646
Impact of OSHA on Designers, Vernie G. Lindstrom, CE:July 73:85
Integrating Construction with Engineering, Ben C. Gerwick, Jr., CEE:Feb 74:1-598
Management in the Construction Industry --A New M.I.T. Program, William A. Litle, CEE:Feb 74:1-589
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
Mobile Homes and New Communities, Herbert Behrend, UP2:Nov 74:181:10915
Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185
OPBID: Competitive Bidding Strategy Model, Thomas L. Morin and Richard H. Clough, CO1:July 69:85:6690
Planning Monitoring Frequencies for CPM Projects, Douglas Vasco Costa, CO2:Nov 71:211:8503
Precast Concrete in Residential Construction, Rexford L. Selbe, UP1:Mar 73:93:9596
Present State of the Grouting Industry in the United States, Joseph P. Welsh, EFFD:Mar 74:65

Report Relating the Impact of Mobile Homes on Urban Plans and Housing Systems by the Task Committee on Mobile Home Parks of the Urban Planning and Development Division, Charles O. Quade, Chmn., UP1:Mar 74:7:10385
Role of Government in Public Works Development, William Harris, Sir, PWS:Nov 72:167
A Short Course for Inexperienced Construction Engineers, Robert J. Smith, CEE:Feb 74:1-890
Structure of Construction Industry in Romania, Daniel W. Halpin, Mihai Nemteanu and Ronald W. Woodhead, CO2:June 74:141:10600
Unfinished Business, Arthur J. Fox, Jr., CE:Mar 71:57
What the General Contractor Looks for in a Recent Graduate, Luther Hill, Jr., CEE:Feb 74:1-374
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58

Construction Joints

Concrete Dam Horizontal Joint Cleaning, Mac W. Lutz, RCCD:70:317
Concrete Placement, Split Level-No Vertical Joints, Otto R. Lum, RCCD:70:213
Design Improvements in Concrete Dams, J. Laginha Serafim, RCCD:70:371

Construction Management

Book Review: Handbook of Construction Management and Organization, Ben C. Gerwick, Jr., CE:Oct 73:106
Building Construction Games-General Description, Tung Au and Ernest W. Parti, CO1:July 69:1:6645
Calendar-Day CPM, Louis R. Shaffer, CE:Aug 69:65
Civil Engineering: An Education for Professional Management, Boyd C. Paulson, Jr., CEE:Feb 74:1-580
Civil Engineering's Role in Construction Education, Henry W. Parker, CEE:Feb 74:1-573
Civil Engineers Need Construction Education, Walter L. Meyer and Robert I. Carr, CEE:Feb 74:1-545
Construction as an Option within Civil Engineering, George E. Mason and Russel C. Jones, CEE:Feb 74:1-620
A Construction Co-op Educational Program, Keith F. Faherty and William E. Kissner, CEE:Feb 74:1-637
Construction Education in Civil Engineering, Herbert W. Busching and J. Pat Cecil, CEE:Feb 74:1-607
Construction Engineering and Management (Discussion), Ben C. Gerwick, Jr., CEE:Feb 74:2-310
Construction Management Game-Deterministic Model, Tung Au, Richard L. Bostleman and Ernest W. Parti, CO1:July 69:25:6647
Construction Management Works at Federal Hospital, Jerry Kosro, CE:Jan 74:40
Construction Productivity and Job Satisfaction, John D. Borcherding and Clarkson H. Oglesby, CO3:Sept 74:413:10826
Continuing Education for the Contractor Owner, Emmett H. Karrer, CEE:Feb 74:1-858
Continuing Education of Construction Management Personnel, Kenneth R. Ware, CEE:Feb 74:1-881
Contractual Pitfalls, Al Wasserman, EPMT:73:37
CPM Use in Top 400 Construction Firms, Edward W. Davis, CO1:Mar 74:39:10395
Development of a Professional Construction Manager, Rolland M. Wilkening, CEE:Feb 74:1-367
Education for Construction Engineering and Management, John A. Havers and Donn E. Hancher, CEE:Feb 74:1-662
Engineer/Builder's Approach to Continuing Education, Richard M. Collins, CEE:Feb 74:1-816
Envirionment and Construction Management Engineers, David A. Spivey, CO3:Sept 74:395:10804
Formal Education in Construction Management, Abraham Warszawski, CO2:Sept 72:251:9164
Influence of Rapid Construction On Concrete Dam Costs, Gurmukh S. Sarkaria, RCCD:70:39
Integrating Construction with Engineering, Ben C. Gerwick, Jr., CEE:Feb 74:1-598
Management Degree Program for Employed Public Works Directors, A. Morgan Johnson, CEE:Feb 74:1-728
Management in the Construction Industry --A New M.I.T. Program, William A. Litle, CEE:Feb 74:1-589
Networking Methods for Project Planning and Control, Antoine E. Naaman, CO3:Sept 74:357:10814
New Interdisciplinary Program in Construction Management at WPI, A. Fattah Chalabi, CEE:Feb 74:1-645
New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60
New York State Spurs Housing, Kneeland A. Godfrey, Jr., CE:Nov 71:53
Planning Construction of Repetitive Building Units, Robert I. Carr and Walter L. Meyer, CO3:Sept 74:403:10812
Professional Aspects of Public Works Management, Myron D. Calkins, CEE:Feb 74:1-339
Professional Construction Management and Project Administration, by William B. Foxhall (Book Review), Robert F. Lathlaen, CE:June 72:8
A Profile of the Future Construction System, Joseph C. Kellogg, CO1:Mar 71:147:7938
Project Planning and Control by Time-Sharing Computer, Norman L. Scott and Edward L. Murphree, CO1:Mar 72:37:8758
Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830
Rate of Work Method: Simplified Project Control, John A. Cunningham and Edward P. Yarmowich, CE:Nov 73:62
Reward-Risk Ratio, Marvin Gates and Amerigo Scarpa, CO4:Dec 74:521:10984
A Short Course for Inexperienced Construction Engineers, Robert J. Smith, CEE:Feb 74:1-890
A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286
Value Engineering--A Logical Technique for Earth Dam Construction, Chung Y. Li, CE:June 69:83

Construction Materials

Arctic Construction Problems and Techniques, Neil T. Monney, Millard M. Hill, P. Oien, S. J. Rowland and F. L. Vail, CO1:Jan 68:89:5760
Asphalt Paving Technology-Some Current Developments and Trends, Louis L. Monismith, CE:Aug 69:45
Construction Planning in South East Asia, Omar E. Rood, Jr. and John L. Richards, CO2:Sept 72:331:9217
Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, Clyde E. Kesler, TB:73:III-25-757
Economic Analysis of Housing Construction Methods, Shlomo Peer and Abraham Warszawski, CO2:Sept 72:287:9166
Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
Machine Stress Rated Lumber: Challenge to Design, William L. Galligan and Delos V. Snodgrass, ST12:Dec 70:2639:7772
New Methods in Construction Systems, R. Richard LeVitt, CO3:Sept 74:211:10788
New Municipal Incinerator Defeats Pollution/Corrosion Problems, Eugene S. Backus, CE:Dec 71:48
Optimal Multifunctional Material Systems, Edward M. Krokosky, EM2:Apr 71:559:8077
Performance Requirements for Fireproofing Materials, Lawrence G. Seigel, EM3:June 74:489:10598
Plastics in Construction, H. C. Browne, CE:Aug 69:39
Polymer as Surface Treatment for Concrete, Alvin H. Meyer, ST6:June 74:1205:10615
Recycling Wastes for Structural Application, Seymour A. Bortz and Murray A. Schwartz, EM2:Apr 73:249:9648

Structural Metals-Aluminum, John W. Clark, CE:Aug 69:31

Structural Metals-Steel, Roger L. Brockenbrough, CE:Aug 69:35

Summary of Presentations and Discussions on Materials Deterioration and Ancillary Equipment, Eric B. Kollgaard and Joseph D. Walters, IMROD: Sept 73:528

Syntactic Foams for Deep Sea Engineering Applications, Israel Resnick and Aleksander Macander, CO1:June 70:45:7367

Testing and Design of Advanced Composite Materials, Edward M. Lenoe, EM6:Dec 70:809: 7729

Trends in Construction Materials: An Overview, Russel C. Jones and Fred Moavenzadeh, CE:Aug 69:28

Using Aerial Photos to Locate Granular Fill Material, Doss Neely and Abdel-Hady Mohamed, CO2:Oct 68:181:6166

Why Not Plastics Bridges?, Fred C. McCormick, ST8:Aug 72:1757:9143

Construction Methods

Composite Steel-Concrete Building Frame, Don Belford, CE:July 72:61

Construction Methods for the Soil-Cement Dam, Jerome M. Raphael, ECCD:72:217

Construction Planning in South East Asia, Omar E. Rood, Jr. and John L. Richards, CO2:Sept 72:331: 9217

Ribbon Batch and Conveyor Placing Systems for Concrete Dams, Robert F. Oury, RCCD:70:281

Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165

Summary of the Conference, Arthur J. Fox, Jr., ECCD:72:521

What, Why and Where Of The Design And Construction Of Gravity Dams, William R. Waugh, RCCD:70:173

Construction Planning

Construction Planning in South East Asia, Omar E. Rood, Jr. and John L. Richards, CO2:Sept 72:331: 9217

Estimating Costs of Earthwork via Simulation, Jack H. Willenbrock, CO1:Mar 72:49:8763

A Modern Metropolis Looks Ahead, William D. Hudson, TE4:Nov 74:801:10918

Rate of Work Method: Simplified Project Control, John A. Cunningham and Edward P. Yarmowich, CE:Nov 73:62

Construction Practices

Comments on United States Grouting Practices, James M. Polatty, EFFD:Mar 74:47

Dam Foundation Problems and Solutions, B. I. Maduke, EFFD:Mar 74:69

Manicouagan 3 Cut-Off, Yves Pigeon, EFFD:Mar 74: 289

Safety in Construction—The Contractor's Viewpoint, John E. Witte, TN: CO3:Sept 74:497:10773

Stochastic Scheduling of Linear Construction Sites, Joachim Dressler, CO4:Dec 74:571:11024

Summary — Foundations for Dams, Edward D. Graf, EFFD:Mar 74:465

Construction Procedure

Angat Project - The Leak in Tunnel Two, Wallace A. Waldorf, PO4:Dec 71:799:8571

At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73: 72

Big Steel-Truss Roof Welded on Ground, Lifted into Position, Gene W. Jones, CE:Oct 69:42

Booby Traps for Young Engineers on Construction, Edward A. Merrill, CO2:Nov 71:305:8541

Bureau of Reclamation Experiences With Concrete Admixtures, Elmo C. Higginson, RCCD:70:103

Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, A. Kondratiev, TB:73:II-14-157

Consideration of Alternatives in Decision Making, Ellis L. Armstrong, EI2:Apr 74:119:10498

Construction as an Option within Civil Engineering, George E. Mason and Russel C. Jones, CEE:Feb 74:1-620

Construction Expediting, Arthur Monsey, CO1:June 70:19:7356

Construction Innovations at Dworshak Dam, Edward E. Hershberger, CO3:Sept 74:303:10793

Construction Of Large Concrete Ocean Structures, Ben C. Gerwick, Jr., CO1:Mar 71:1:7991

Construction of Large Prestressed Concrete Girders, J. Neil Mustard and Ram S. Ghosh, CO4:Dec 74: 507:10994

Construction Self-Weight Stresses of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, ST1:Jan 71:393:7840

Control of Water Pollution During Dam Construction, Charles A. McCullough and Robert R. Nicklen, SA1:Feb 71:81:7927

Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72: 311:8858

Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Envirionment and Construction Management Engineers, David A. Spivey, CO3:Sept 74:395: 10804

Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62

First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50

Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715

Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, J. F. Camellerie, TB:73:Ia-4-781

Impact of Metrication on the Construction Industy, Richard H. Clough, EI3:July 74:225:10646

Long-Span Steel Deck Railroad Bridge, Roman Wolchuk and J. C. Bridgefarmer, CE:Apr 70:71

Machine-Bored Caissons for Earth-Retaining Systems in Europe, Herbert Weinhold, CE:July 70:64

Masonry Construction Operations, Clayford T. Grimm, CO2:June 74:171:10630

New Construction Equipment and Techniques, Bruce B. Cloud, ASC73:Mar 73:181

Newport Bridge Superstructure, Alfred Hedefine and Louis G. Silano, ST11:Nov 71:2653:8533

New Shape in Shore Protection, Greer E. Coursey, CE:Dec 73:68

The Optimum Gravity Dam, Jerome M. Raphael, RCCD:70:221

Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:1:9706

Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82

Penstock Construction at Grand Coulee Dam, Wayne H. John, CE:Dec 73:52

Pine Valley Creek--a First, A. P. Bezzone, CE:Aug 74:72

Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323

Practical Aspects of Shotcrete Application, Fernando E. Valencia, SUSS:July 73:114

A Program For New Towns, Ira J. Bach, UP1:Apr 71:55:8059

Rehabilitation of Offshore Platforms, John J. Givens and Greg Carter, CE:Apr 70:47

Repair of Earthquake Damaged Underground Reservoir, Daniel J. Smith, Jr., CO3:Sept 74:449: 10825

Repair of 7-Story Bearing Wall, Russell S Fling, CO1:July 69:39:6669

Requirements For Efficient Concrete Placement, Edward E. Hershberger, RCCD:70:15

Sand Densification by Heavy Vibratory Compactor, Douglas C. Moorhouse and Gerald L. Baker, SM4: July 69:985:6656

Sand Densification by Heavy Vibratory Compactor, Douglas C. Moorhouse and Gerald L. Baker, PISST:71:379

Septic Tank Systems, Joseph A. Cotteral, Jr. and Dan P. Norris, SA4:Aug 69:715:6735

Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562
Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Utility Function Determination for Bidding Models, Jack H. Willenbrock, CO1:July 73:133:9843
Vibrations During Construction Operations, John F. Wiss, CO3:Sept 74:239:10798

Consultants
ASCE to Proceed with Disciplinary Hearings against Those Involved in Agnew Scandal, CE:Jan 74:56
Competitive Bidding on Foreign Work, E. Montford Fucik, PP1:Oct 71:121:8456
Construct Systems, Summary Report, W. H. Arch, Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823
Engineering Managers: Key to Cutting Labor Costs, Howard M. Taylor, CE:June 71:41
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
New Approach to Site Selection Studies, W. Ray Seiple, PO1:July 74:63:10643
On the Applications of ICES and Universal Program Software Systems, Louis H. Klotz, CE:Feb 69:72
Opening Remarks, James R. Graham, SUSS:July 73:1
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
River-Basin Planning for Private Development, Leonard A. Lovell, Clarence N. Freeman and Alvin S. Goodman, PO1:May 68:67:5946
Salary Guidelines: Enlightened Implementation or Unionization?, Jack H. McMinn, PP4:Oct 73:429:10090

Consulting Engineers
ASCE Salary Survey, Charles J. Stevens, Chmn., PP3:July 72:393:9025
Client Relations, Chandler P. Young, EPMT:73:63
Commentary, Erwin Abonyi, CEWAU:74:248
Commercialism in Tax-Favored Institutions, Samuel H. Clark and Raymond Lundgren, PP1:Sept 70:93:7560
A Consulting Firm in Civil Engineering Education: A History of Four Years of Participation, Eben Vey and David A. Novick, CEE:Feb 74:1-927
The Dilemma of an Engineering Manager in a Professional Engineering Firm, Vernon E. Swanson, CE:July 69:56
Education Profile for Consulting Engineering: A Case Study (Discussion), Melvin I. Esrig, CEE:Feb 74:2-314
Effective Contract Administration in Construction Management, Donald F. Scott, CO2:June 74:117:10599
Financial Tools for a Consulting Firm, Roy T. Sheehey, CE:Jan 72:66
Financial Tools for a Geotechnical Consulting Firm, Roy T. Sheehey, 4PCSM:71:II345
Needs of Engineering Education for the Future -- View of a Conuslting Engineer, William W. Moore, CEE:Feb 74:1-327
Overseas Work and the Smaller Consulting Engineering Firm, Stephen M. Olko, CEWAU:74:252
Planning and Engineering by Agency-Consultant Team, Louis W. Riggs, UP2:Oct 70:105:7585
Quality Assurance, Ralph E. Voice, Jr., EPMT:73:59
The Role of Consulting in Faculty Development, Furman W. Barton, Fred C. McCormick and Henry L. Kinnier, CEE:Feb 74:1-962
A Sabbatical Leave with a Consulting Firm, Peter George Hoadley, CEE:Feb 74:1-950
Summary Report of Questionnaire on Construction Inspection, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192
Ten Years After: Confessions of an Overeducated Engineer, Richard M. Males, CEE:Feb 74:1-417
Three Yards and a Cloud of Dust: An Empirical Approach to Career Development for the Smaller Engineering Firm in Transition, Robert Caird Lewis, CEE:Feb 74:1-834
1973 Salary Survey, by the Committee on Employment Conditions of the Department of Professional Activities, Edward A. Bryant, Chmn., EI2:Apr 74:127:10450

Consumers
Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64

Consumption Rate
Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941

Consumptive Use (Water)
Central California Evapotranspiration Frequencies, William O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941
Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945

Contactors
Construct Systems, Summary Report, W. H. Arch, Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823

Contact Pressure
Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626
Contact Between Plates and Sagged Supports, John Dundurs, Kraiwood Kiattikomol and Leon M. Keer, EM2:Apr 74:445:10485

Containerizing
Basis for Simulation Model of Container Terminal, Fraser Dunford, TE3:Aug 72:607:9099
Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72:333:9126
Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317
Containership Finger Pier has Unique Fender System, Warren M. Buser, CE:Apr 71:58
Goods Movement on Urban Transit Systems, John J. Fruin, TE3:Aug 72:617:9139
Railroad Freight Movement—Some New Concepts and Current Plans, George A. Sargent, TE2:May 74:475:10562

Containers
Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317
Containership Finger Pier has Unique Fender System, Warren M. Buser, CE:Apr 71:58
Planning and Construction of the Elizabeth N.J. Port Authority Marine Terminal, Anthony J. Tozzoli and John S. Wilson, CE:Jan 69:34
Supplement List of Needs in Research on Problems of Berthing and Mooring Ships, Basil W. Wilson, BMS:71:286
Vibration Analysis of Thin Cylindrical Containers, Anand S. Arya, Shashi K. Thakkar and Atul C. Goyal, EM2:Apr 71:317:8010

Containment
Dsc, Automobile Exhaust Pollutants, James W. Hudson, CE:Nov 70:36
Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709
Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711

Containment Vessels
Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291

Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375
Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709
Construction Of Multibarrier Containment Vessels, Delbert M. Leppke, C. Alexander and Robert S. Webb, CO1:Mar 71:53:8002
Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317
Design of Containment Base Mats, Anil K. Kar, SDNPF:Dec 73:323
Development of Response Spectra for a Thin Shell Structure, D. R. Denton, Chung-Tung Shen and C. K. Webster, SDNPF:Dec 73:571
First Prestressed Containment Vessel in a U.S. Commercial Nuclear Power Plant, Don K. Croneberger, CE:July 69:52
Hutchinson Island Nuclear Containment Structure, Ronald G. Moreland and Richard L. Bentley, PO1: May 73:041:9714
Impact Resistance of Ferro-Cement, Surendra P. Shah and William H. Key, Jr., ST1:Jan 72:111:8640
Nuclear Containment Mat Design Concepts, King-Yuen Chu and Alan A. Broussard, PO1:July 74:85: 10654
Prestress System for Nuclear Concrete Containment Domes, King-Yuen Chu, PO1:July 74:111:10687
A Simplified Approach to Compute Natural Frequencies of Vertical Tanks and Heat Exchangers with Skirt Supports, Chi-Wen Lin, SDNPF:Dec 73: 35
Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343

Continental Shelf

Reach of Waves to the Bed of the Constitutional Shelf, Richard Silvester and Geoffrey R. Mogridge, 12CEC:71:651
Revisions to Hurricane Design Wave Practices, Charles L. Bretschneider, CE13:72:I-167
Simultaneous Data System for Instrumenting the Shelf, Robert L. Lowe, Douglas L. Inman and Birchard M. Brush, CE13:72:I-95

Continental Shelves

Computation of Storm Surge, Richard Silvester, 12CEC:71:1995
Oceanic Factors Pertinent to Shelf Installations, Eugene C. La Fond and Katherine G. La Fond, CEO-II:70:783
Tsunami-Responses Of San Pedro Bay And Shelf, Basil W. Wilson, CEO-II:70:1099
Tsunami-Responses of San Pedro Bay and Shelf, Calif., Basil W. Wilson, WW2:May 71:239:8107
Water Pollution on the Continental Shelf, John S. Farlow, Lester M. Klashman and Merrill S. Hohman, CEO-II:70:1233
Water Quality Monitoring For Pollution Control On The Continental Shelf, T. A. Wastler and Harold Berkson, CEO-II:70:221

Contingency Costs

Bidding Contingencies and Probabilities, Marvin Gates, CO2:Nov 71:277:8524

Continuing Education

Can Continuing Education Teach Experience?, Arthur B. Gruver, CEE:Feb 74:1-825
Civil Engineering Curricula -- An Evaluation, H. Gordon Larew and John P. Bradshaw, CEE:Feb 74: 1-406
Civil Engineering Education and the Bureau of Reclamation, Gilbert G. Stamm, CEE:Feb 74:1-347
Civil Engineering: Flexible or Rigid Program, Howard I. Epstein, CEE:Feb 74:1-16
Committee Rap Sessions (Panel Discussions), CEE: Feb 74:2-254
A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489
Conducting Civil Engineering Continuing Education, Peter C. Madsen and King S. Luk, CEE:Feb 74:1-900
Continuing Education and Broadening the Program (Discussion), William A. Conwell, CEE:Feb 74:2-338
Continuing Education for Civil Engineers - The UCLA-ASCE Professional Certificates, Alfred C. Ingersoll, CEE:Feb 74:1-841
Continuing Education for the Contractor Owner, Emmett H. Karrer, CEE:Feb 74:1-858
Continuing Education for the Engineering Educator, Edward J. Rhomberg and David A. Novick, CEE: Feb 74:1-955
Continuing Education in the Strategic Air Command, William A. Orth, Colonel, CEE:Feb 74:1-874
Continuing Education of Construction Management Personnel, Kenneth R. Ware, CEE:Feb 74:1-881
Continuing the Enchancement of Mankind's Welfare: A Civil Engineer's Responsibility for Professional Development and Maintenance of Competence, C. Allen Wortley, CEE:Feb 74:1-808
Current Status of Continuing Education, C. Allen Wortley, CEE:Feb 74:2-66
Doctoral Education and the Practicing Professional, Warren J. Baker and Edward J. Rhomberg, CEE: Feb 74:1-764
Educational Needs for Engineering Practice and Recommended Follow-Up Program (Discussion), George J. Kral, CEE:Feb 74:2-345
An Educator-Practitioner Interaction Program, Subhash C. Anand, PP2:Apr 73:259:9674
Engineer/Builder's Approach to Continuing Education, Richard M. Collins, CEE:Feb 74:1-816
How A Construction Industry Organization Provides Educational Opportunities, Maynard Charles Nugent, CEE:Feb 74:1-865
Industry Continuing Engineering Education, Vincent J. Vitagliano, CEE:Feb 74:1-868
An Interdisciplinary Graduate Program, Robert Burnham, Volker Hartkopf, Edward M. Krokosky and Irving J. Oppenheim, CEE:Feb 74:1-179
The Last Word, Arthur J. Fox, Jr., CEE:Feb 74:2-285
The Making of a Professional Civil Engineer, Gerard Roberto, Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433
Management Degree Program for Employed Public Works Directors, A. Morgan Johnson, CEE:Feb 74: 1-728
Master's Degree in Civil Engineering / Facilities: A Program Offered at the Air Force Institute of Technology School of Engineering for Air Force Civil Engineers, Stewart W. Johnson, CEE:Feb 74: 1-157
The ME(Civil) Program at Cornell University - Part 1 - Program Development, Dwight A. Sangrey and George Winter, CEE:Feb 74:1-779
The ME(Civil) Program at Cornell University - Part II - Program Implementation, Richard N. White, Vaughn C. Behn, Gerard F. Fox and Arthur Adams, CEE:Feb 74:1-787
Mid-Career Administrative Training for Engineers, William D. Brinckloe, EI4:Oct 74:325:10866
Needs of Engineering Education for the Future -- View of a Conuslting Engineer, William W. Moore, CEE:Feb 74:1-327
Neglected Responsibilities of Undergraduate Education, John P. Klus, CEE:Feb 74:1-566
PennState Civil Engineering Construction Education, Jack H. Willenbrock, CEE:Feb 74:1-628
Practioner-Oriented Post-Baccalaureate Education, Ralph E. Fadum, CEE:Feb 74:1-794
Promising Trends in Continuing Education - Programs Available, Alfred C. Ingersoll, CEE:Feb 74:2-149
A Proposed Doctor of Engineering Program, Fred J. Benson and Charles H. Samson, Jr., CEE:Feb 74:1-772
Recommendations for Environmental Engineering Education, Wesley O. Pipes, EE2:Apr 74:243:10459
Responsibilities of Practicing Engineers and Technicians and Subprofessionals (Discussion), Lester A. Heer, CEE:Feb 74:2-342
A Short Course for Inexperienced Construction Engineers, Robert J. Smith, CEE:Feb 74:1-890

Should Renewal of PE License be Automatic?, C. Allen Wortley, CE:Jan 74:69
Some Experience with Offering Professional Education in Urban Transportation, Lester A. Hoel, CEE:Feb 74:1-850
A Success Story - Kansas City Engineering Evening Graduate Program (Discussion), Melford E. Monsees, CEE:Feb 74:2-320
Ten Years After: Confessions of an Overeducated Engineer, Richard M. Males, CEE:Feb 74:1-417
Three Yards and a Cloud of Dust: An Empirical Approach to Career Development for the Smaller Engineering Firm in Transition, Robert Caird Lewis, CEE:Feb 74:1-834
UCLA Professional Certificate Program in Engineering Management for Public Works, Alfred C. Ingersoll and Ricardo Gonzales, Jr., EI1:Jan 74:45:10301

Continuous Beams
Continuous Beams With Prestressed Reinforcement, Alfred G. Bishara, George E. Mason and Filomeno N. Almeida, ST9:Sept 71:2261:8387
Elastic Stability of Continuous Beams, Nicholas S. Trahair, ST6:June 69:1295:6632
Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876

Continuum Hypothesis
The Continuum Analysis of Shear-Wall Structures, Riko Rosman, TB:73:III-21-271

Continuum Mechanics
Artificial Intelligence Continuum Mechanics, Andrew K.C. Wong and George Bugliarello, EM6:Dec 70:1239:7779
Cosserat Surface and Sandwich Shell Equilibrium, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1075:9240
Effect of Openings on Stresses in Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE2:May 73:255:9721
Finite Element Thermoelastoplastic Analysis, Norman A. Cyr, Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068
Nonlinear Sandwich Shell and Cosserat Surface Theory, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1183:9244
Projectile Penetration of Elastic-Plastic Earth Media, Lewis Thigpen, GT3:Mar 74:279:10414
Symmetry in Structural Mechanics, Peter G. Glockner, ST1:Jan 73:71:9475

Contours
Estimating Costs of Aerial Surveys, Antonio M. Aguilar, CE:Oct 69:70
Selection of Maps for Engineering and Planning, Antonio M. Aguilar, Chmn., SU1:July 72:107:9073

Contract Administration
Effective Contract Administration in Construction Management, Donald F. Scott, CO2:June 74:117:10599
Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781

Contracted Services
Engineering Services for Construction, Altaf Hussain, CO3:Sept 74:273:10787

Contracting
Bidding Models—The Final Resolution of a Controversy, John M. Dixie, CO3:Sept 74:265:10790
Construction Planning in South East Asia, Omar E. Rood, Jr. and John L. Richards, CO2:Sept 72:331:9217
Effective Project Management Techniques, Robert P. Wadell, Chmn., EPMT:73, 77pp.
Opening Remarks, Jack W. Hilf, Chmn., ECCD:72:1
Open-Shop Movement Slithers Into Construction Contracting, Robert N. Olsen, CE:Nov 71:40
Utility Function Determination for Bidding Models, Jack H. Willenbrock, CO1:July 73:133:9843

Contraction
Boundary Contractions as Controls in Two-Layer Flows, Subhash C. Mehrotra, HY11:Nov 73:2003:10160

Contractors
Better Specifications for Underground Work, J. Donovan Jacobs, CE:June 71:47
Better Specifications for Underground Work, J. Donovan Jacobs, URC:72:515
Book Review: Handbook of Construction Management and Organization, Ben C. Gerwick, Jr., CE:Oct 73:106
Comments on United States Grouting Practices, James M. Polatty, EFFD:Mar 74:47
Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
Concrete Frame Construction, State-of-Art Report 6, W. S. Bellows, Jr., TB:73:Ia-4-777
Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538
Construction Education in Civil Engineering, Herbert W. Busching and J. Pat Cecil, CEE:Feb 74:1-607
Consturction Practices in the U.K., G. G.K. Smith, TB:73:Ia-4-816
Continuing Education for the Contractor Owner, Emmett H. Karrer, CEE:Feb 74:1-858
Contracting Practices, State-of-Art Report 1, Charles A. DeBenedittis, TB:73:Ia-4-669
Contractor's Management Handbook, ed. by James J. O'Brien & Robert G. Zilly; consulting ed. Thomas A. Graham (Book Review), L. Earl Tabler, Jr., CE:May 72:10
Draft Guide to Turnkey Construction Contracts, CE:Oct 72:52
Excelling as a Construction Contractor, Altaf Hussain, CO4:Dec 74:621:11029
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Problems Related to the Construction of Dam Foundation from a Contractors' Viewpoint, John W. Leonard, EFFD:Mar 74:105
Reporter's Notes -- Session VI, John W. Leonard, ECCD:72:515
Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781
Role of Contract and Specifications in Foundations Construction, Max E. Greenberg, CO2:June 74:113:10607
Safety in Construction—The Contractor's Viewpoint, John E. Witte, TN: CO3:Sept 74:497:10773
Subsurface Construction Contracts—A Contractor's View, George A. Fox, CO2:June 74:153:10608
Summary — Foundations for Dams, Edward D. Graf, EFFD:Mar 74:465
Use of Shotcrete from the Standpoint of the Contractor, Kirk H. Fox, SUSS:July 73:22
What the General Contractor Looks for in a Recent Graduate, Luther Hill, Jr., CEE:Feb 74:1-374

Contracts
Are Submarine Pipeline Contract Documents That Good?, Sam W. Small, III, PITO:74:67
Better Specifications for Underground Work, J. Donovan Jacobs, CE:June 71:47
Bidding Models: Resolution Of A Controversy, Matthew Rosenshine, TN: CO1:Mar 72:143:8753
Bidding Stratagies and Probabilities, Marvin Gates, CO1:Mar 67:75:5159
Bidding--Work Loading Game, Paul E. Torgersen, Richard M. Wyskida and Leonard S. Yarbrough, CO2:Oct 68:127:6141
Changed Soil and Rock Conditions in Construction, George F. Sowers, CO2:Nov 71:257:8509
Changes and Changed Conditions, Max E. Greenberg, CEWAU:74:177
Comments on United States Grouting Practices, James M. Polatty, EFFD:Mar 74:47

Construction Contracting Systems, by William J. Gregg, Philip G. Read, and Ralph C.nash, Jr. (Book Reviewe, Donald A. Patrick, CE:Feb 71:14
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Delays and Interferences, Albert Foreman, CEWAU: 74:163
Draft Guide to Turnkey Construction Contracts, CE: Oct 72:52
Effective Contract Administration in Construction Management, Donald F. Scott, CO2:June 74:117: 10599
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Engineering Aspects of Wastewater Contracts, Samuel I. Zack, SA3:June 69:465:6602
Final Committee Position on The AGC's Recommendation that Approved Securities be Posted in Lieu of Retained Percentages, by the Committee on Contract Adminstration of the Construction Division, Robert D. Rowland, Chmn., CO2:Nov 71:271:8517
Landmark New York Cases on the Question of Liability of the State in Withholding Subsurface Information, Thomas B. Treacy, CEWAU:74:195
The Law -- The Letter and the Spirit -- Introduction, M. D. Morris, CEWAU:74:161
Model Form of "Instructions To Bidders," by the Committee on Contract Administration of the Construction Division, Woodrow W. Wilson, Chmn., CO1:Mar 74:27:10407
Model Form of 'Notice to Bidders', Woodrow W. Wilson, Chmn., CO3:Sept 74:373:10818
Multi-year Construction Contracts, Donald A. Patrick, CE:Jan 71:65
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
Owner-Engineer-Contractor Economic Considerations in Dam Construction, Gerald T. McCarthy, ECCD:72:493
Owner-Engineer-Contractor Economic Considerations in Dam Construction, George L. Beard, ECCD:72:503
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Role of Contract and Specifications in Foundations Construction, Max E. Greenberg, CO2:June 74:113: 10607
Specs - A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, EC5:70:707
State of Practice — Subsurface Investigation for Highway Tunnels, David S. Gedney, EFSE:Aug 74: 36
Structure of Construction Industry in Romania, Daniel W. Halpin, Mihai Nemteanu and Ronald W. Woodhead, CO2:June 74:141:10600
Upgrading Overseas Construction Contracts, Gordon L. Williams, CE:Dec 70:51
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56

Contract Terms
Are Submarine Pipeline Contract Documents That Good?, Sam W. Small, III, PITO:74:67
Better Specifications for Underground Work, J. Donovan Jacobs, URC:72:515
Changes and Changed Conditions, Max E. Greenberg, CEWAU:74:177
Delays and Interferences, Albert Foreman, CEWAU: 74:163
Landmark New York Cases on the Question of Liability of the State in Withholding Subsurface Information, Thomas B. Treacy, CEWAU:74:195
New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60
Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781

Control
Drainage and Pollution from Beef Cattle Feedlots, Raymond C. Loehr, SA6:Dec 70:1295:7726
Saltwater Intrusion in the United States, C. B. Sherwood, HY5:Sept 69:1651:6788
"Urban Freeway Surveillance and Control, The State of the Art" by Paul F. Everall (Book Review), Joseph F. Rice, CE:Mar 74:36

Control Joints
Concrete Dams Built Without Contraction Joints, Roy W. Carlson, RCCD:70:187

Control Structures
Characteristics of Flow Weirs of Finite Crest Width, Singamsetti Surya Rao and Manoj Kumar Shukla, HY11:Nov 71:1807:8515
Irrigation Channel Structures, Victoria, Australia, Keith A. Murley, IR2:June 70:131:7371

Control Surveys
Adjusting Radial Surveys, James R. Baker, SU2:Nov 72:157:9335
Bridge Construction Surveying, Ray W. Burgan, Jr., CO2:June 74:105:10602
Electronic Distance Measurement Revolution Well Underway, Eugene E. Dallaire, CE:Oct 74:66
Fifty Years in Surveying-Mapping-and the Future, George D. Whitmore, SU1:Oct 69:143:6860
How Land Surveying Is Being Modernized, Robert T. Howe, SU1:July 72:17:9049
Laser Multilateration, Theodore H. Wirtanen, SU1: Oct 69:81:6843
Map Control by Electronic Surveys, William A. McLaughlin, SU1:Apr 70:81:7226
Modified Methods in Numerical Radial Triangulation, Paul R. Wolf and Lloyd T. Bartlett, SU1:Sept 73:121:10028
Photogrammetric Control Extension for Route Design, Eugene E. Derenyi and Ahmed Maarek, SU1:May 74:49:10528
Tellurometer Ground Swing Over Ice Surface, Thomas A. Asbeck and James L. Clapp, SU1:May 71:53:8149

Control Systems
Current Water Systems Automation Research and Development in the Bureau of Reclamation, Charles A. Calhoun, IR73:Aug 73:353
Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779
Precise Dam Surveys—Los Angeles County Flood Control District, Don F. Keene, SU2:Nov 74:99: 10925

Convection
Finite-Difference Convection Errors, David A. Bella and William J. Grenney, SA6:Dec 70:1361:7744
Formulas for Convective Motion of Fluids, Gee Tsang, TN: EM1:Feb 71:155:7858
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87

Convection Clouds
Modification of Convective Clouds in Northern Plains, Martin R. Schock and Arnett S. Dennis, OIDS:72:373

Convergence
Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73: 1023:10054
Wave Refraction Theory in a Convergence Zone, Robert W. Whalin, CE13:72:I-451

Conversion
Conversion of Organic Waste to Fuel, John L. Cox, Warrack G. Willson and Edward J. Hoffman, EE3: June 74:717:10579
Converting a Railroad to a First Class Suburban Rail Transit System - Under Traffic, Donald O. Eisele, NA:Mar 71:181

Conveying
Air Conveyed Concrete -- A Unique Cost-Saving System for Mixing and Placing Concrete, Reg A. Anderson and Fred N. Mueller, ECCD:72:273
Conveying Concrete to Lower Dam Construction Costs, James L. Cope, ECCD:72:247

Conveyors
Construction Innovations at Dworshak Dam, Edward E. Hershberger, CO3:Sept 74:303:10793
DASHEVEYOR Application In Concrete Dam Construction, L. G. Janzow and D. F. Evans, II, RCCD:70:297
Moving Walks, Ralph W. Blevins, BP73:Dec 73:463
Port Latta--Open Sea Loading Terminal, Paul Soros, CE:Jan 69:62

Convolution Integrals
Evaluation of Segmented IUH From Derivatives, Mordechai H. Diskin, HY1:Jan 69:329:6359
Subsurface Hydrograph Analysis by Convolution, Willard M. Snyder and Loris E. Asmussen, IR3: Sept 72:405:9213

Coolants
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173

Cooling
Solar Heating and Cooling: Untapped Energy Put to Use, George O.G. Lof and Dan S. Ward, CE:Sept 73:88

Cooling Systems
Analysis of Inner Plant Passage of Estuarine Biota, Allan D. Beck and Don C. Miller, EPCE:Aug 74: 199
Aquatic Ecosystems and Thermal Power Plants, Loren D. Jensen and Derek K. Brady, PO1:Jan 71: 209:7802
Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
Concrete Volume Change for Dworshak Dam, Donald L. Houghton, PO2:Oct 69:153:6825
Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250
Cooling Tower Applications in Power Cycle Design, Arthur J. Fiehn, PO1:Mar 69:55:6458
Design and Construction Features — Greenwood Unit One, Satyen M. Guha-Biswas, EPCE:Aug 74: 279
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2: Oct 72:253:9241
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
Recirculation in Shallow Bays and Rivers, R. K. Price, Robert A. Dalrymple and Robert G. Dean, 12CEC:71:1813
Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191
Wind Influence Upon Cooling Water Circulation, Gerrit Abraham and Rob Koudstaal, PO1:Mar 69: 63:6466

Cooling Towers
Analysis and Design of Hyperbolic Cooling Towers, Ajaya K. Gupta and Adolf Walser, EPCE:Aug 74: 307
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
Control of Thermal Effects at Beaver Valley Station, Robert J. McAllister, Lawrence C. Neale and Bruno Brodfeld, PO3:June 70:289:7319
Cooling Tower Applications in Power Cycle Design, Arthur J. Fiehn, PO1:Mar 69:55:6458
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177
Differential Settlement of Hyperbolic Cooling Towers, Phillip L. Gould, ST10:Oct 72:2207:9252
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
Dry-Type Hyberbolic Cooling Tower, Paul Rogers and Laszlo Heller, CE:Oct 72:56
Dynamic Wind Stresses in Hyperbolic Cooling Towers, Salman H. Abu-Sitta and Mahmoud G. Hashish, ST9:Sept 73:1823:9989
Earthquake Design of Cooling Towers, Salman H. Abu-Sitta and Alan G. Davenport, ST9:Sept 70: 1889:7524
Free Vibration of Hyperbolic Cooling Towers, Mahmoud G. Hashish and Salman H. Abu-Sitta, EM2:Apr 71:253:8037
Hyberboloidal Shells on Discrete Supports, Subir K. Sen and Phillip L. Gould, TN: ST3:Mar 73:595: 9629
Hyperbolic Cooling Towers, Development and Practice, Paul Rogers and Eli W. Cohen, PO1:Jan 70:117:7030
Minimum Weight Design of Hyperbolic Cooling Towers, Phillip L. Gould, ST2:Feb 69:203:6395
Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983
Optimization of Circulating Water System, R. S. Gupta and Bruce R. Webber, PO1:May 73:235: 9756
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
Power Plant Cycles for Dry Cooling Towers, Paul Leung and Raymond E. Moore, PO4:Dec 71:729: 8565
Response of Hyperbolic Cooling Towers to Turbulent Wind, Mahmoud G. Hashish and Salman H. Abu-Sitta, ST5:May 74:1037:10542
Simulation of Ammonia Stripping from Wastewater, Joseph F. Roesler, Robert Smith and Richard G. Eilers, SA3:June 71:269:8182
Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141
Stability of Hyperboloidal Cooling Tower, Henry L. Langhaar, Arthur P. Boresi, Robert E. Miller and Jerry J. Bruegging, EM5:Oct 70:753:7635
Thermal Loading of Thin-Shell Concrete Cooling Towers, Richard D Larrabee, David P. Billington and John F. Abel, ST12:Dec 74:2367:11002
Unsymmetrically Loaded Hyperboloids of Revolution, Phillip L. Gould, EM5:Oct 68:1029: 6144
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70

Cooling Water
Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
Cooling Tower Applications in Power Cycle Design, Arthur J. Fiehn, PO1:Mar 69:55:6458
Cooling Water Structures for FitzPatrick Nuclear Plant, Ralph W. Gunwaldsen, Bruno Brodfeld and George E. Hecker, PO4:Dec 71:767:8572
Design and Construction Features — Greenwood Unit One, Satyen M. Guha-Biswas, EPCE:Aug 74: 279

Dilution of Buoyant Two-Dimensional Surface Discharges, Heinz Stefan, HY1:Jan 72:71:8653
Dry-Type Hyberbolic Cooling Tower, Paul Rogers and Laszlo Heller, CE:Oct 72:56
Environmental Impact of Wastewater Discharges, E. R. Hendrickson and J. B. Koogler, SEA:70:91
Generalized Stream Temperature Analysis System, Daniel P. Bauer, Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2: Oct 72:253:9241
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Modeling Spread of Heated Water over Lake, Heinz Stefan, PO3:June 70:469:7375
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
Numerical Modeling of Constituent Transport in Bay Systems, Robert G. Dean and R. B. Taylor, CE13: 72:III-2227
Power Plant Cooling Water Discharge in Streams, Liang-Tseng Fan, Jie-Tsai Tseng and Ching Hwang, PO4:Dec 71:841:8595
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451
Thermal Discharge: A Model-Prototype Comparison, Peter D. Hindley, Russell M. Miner and Ramon F. Cayot, PO4:Dec 71:783:8580
Thermal Hydraulic Study: Arkansas Cooling Reservoir, Herbert S. Riesbol, James B. Anderson, Fred H. Wend and Harlan B. Holmes, PO1:Jan 71: 93:7811
Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191
Waste Heat Disposal from Power Generating Stations, F. Stewart Brown, PO3:June 70:277:7317

Cooperation
Architects and Planners — Introduction, M. D. Morris, CEWAU:74:209
A Construction Co-op Educational Program, Keith F. Faherty and William E. Kissner, CEE:Feb 74:1-637

Coordinates
Absolute Orientation of Photogrammetric Model, Santosh K. Mahajan and Vijay Singh, SU2:Nov 71: 237:8519
Analysis and Prediction of Photogrammetric Residual Errors, Kunwar K. Rampal, SU1:May 74:33:10515
Inversion of Mercator Coordinates, Erwin Schmid, TN: SU2:Nov 72:243:9385
Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79: 9976
Space Resection from Collinearity Conditions, Kunwar K. Rampal, SU2:Nov 71:205:8520
Stress Distribution Around Shell Openings, A. Ziya Aktas, ST11:Nov 70:2337:7693

Coordination
Opportunities in Changing Federal System, Larry Rice, UP1:Mar 74:73:10423

Core Drilling
Accelerometer-Monitored Coring, William L. Preslan, CEO-II:70:655
Caisson Construction Problems and Correction in Chicago, Clyde N. Baker, Jr. and Fazlur R. Khan, SM2:Feb 71:417:7934
In Situ Investigations Of Ocean Sediments, Lloyd Lewis, Vito A. Nacci and James Gallagher, CEO-II:70:641

Cores
Behavior of Compacted Soil in Tension, Abbanki V. Gopala Krishnayya, Zdenek Eisenstein and Norbert R. Morgenstern, GT9:Sept 74:1051:10828
Cables Support Office Building, Bogue B. Babicki, CE:Oct 71:64
Composite Cores and Columns, Hannskarl Bandel, TB:73:Ia-3-632
Performance Of Nonhomogeneous Clay Core, Remy L.A. de Jong, TN: SM8:Aug 72:855:9085

Core Samples
Foundation Study for Materials Test Structure, Melvin C. Hironaka and Raymond J. Smith, SM6: Nov 69:1431:6921

Coring
Accelerometer-Monitored Coring, William L. Preslan, CEO-II:70:655
A Dynamic Penetrometer For Investigating Sediment Properties, Robert D. Stoll, CEO-II:70:209

Coronary Artery Disease
Air Pollution -- A Chest Physician's View, Anne Logan Davis, CEWAU:74:141

Corporations
Retirement Plan Study, Arnold Olitt, PP1:Sept 70:39: 7552

Correlation
Mapping from Space, Alden P. Colvocoresses, SU1: May 71:125:8137
Shear Flow Past Circular Cylinder, Thomas L. Shaw and Michael R. Starr, HY3:Mar 72:461:8774

Correlation Analysis
Dimensional Analysis - Spurious Correlation, Mehmet Selim Yalin and J. William Kamphuis, 12CEC:71:625
Resistance Studies on Smooth Open Channels, V. V. Jayaraman, HY5:May 70:1129:7266

Corrosion
Anti-Fouling System By Electrolysis Of Sea Water, Toru Yoshii, Kenji Ueda and Tsutomu Horiguchi, CEO-II:70:1045
Bridge Deck Deterioration and Crack Control, Joseph P. Callahan, James L. Lott and Clyde E. Kesler, ST10:Oct 70:2021:7579
Corrosion Test of Steel Piling in Sea Water, Laverne L. Watkins, WW3:Aug 71:549:8292
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
Design of FRP Fluid Storage Vessels, Frank J. Heger, ST11:Nov 70:2465:7698
Factors Affecting Durability of Ferrous Metals in the Atmosphere, Francis L. LaQue, ST11:Nov 69:2385: 6890
Introduction to the ASCE Recommended Practice for the Design and Construction of Steel Chimney Liners, Robert W. Mikitka and Randy W. Snook, EPCE:Aug 74:41
Metals in Wastewater Treatment, William H. Ailor, Jr., EE2:Apr 74:295:10444
Metal Structure Geriatrics, Harry Czyzewski and Earl C. Sutherland, CE:July 69:67
Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54
Post-Tensioned Concrete Nuclear Structures, Glen A. Chauvin, Robert J. Small and Adolf Walser, PO3: June 70:400:7355
Steel Highway Accessory Structures, Donovan S. Wolford, ST7:July 71:1991:8255
Sulfuric Acid Attack on Concrete Sewer Pipe, Alvin H. Meyer and William B. Ledbetter, SA5:Oct 70: 1167:7624
Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574

Corrosion Control
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
New Municipal Incinerator Defeats Pollution/ Corrosion Problems, Eugene S. Backus, CE:Dec 71: 48
Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54

Corrosion Fatigue
Point Pleasant Bridge Collapse-Conclusions of the Federal Study, Charles F. Scheffey, CE:July 71:41

Corrosion Inhibitors
Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73: 2123:10055

Corrosion Prevention
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574

Corrosion Resistance
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81

Corrugated Metal Pipe
Large Deflection of Axisymmetric Shell with Creep Strain, Sehng-Rong Lin, Tung-Hua Lin and Bernard Mazelsky, EM1:Feb 74:79:10368

Corrugated Metal Pipes
New Design Method for Corrugated Steel Pipe, Alma P. Moser and Reynold K. Watkins, CE:June 72:61

Corrugating
Corrugated Metal Flumes, Tadaaki Naruse, OIDS:72: 219
Critical Shear Loading of Curved Panels of Corrugated Sheets, George Abdel-Sayed, EM6:Dec 70:895:7725

Cosmotron
Settlement Control for Cosmotron Base, Jacob Feld, 4PCSM:71:II189

Cost Analysis
Bank Stabilization in Susquehanna River Basin, James E. Crews, WW1:Feb 70:87:7061
Berth Planning by Evaluation of Congestion and Cost, Stavros N. Nicolaou, WW4:Nov 67:107:5577
Cost-cutting Techniques for Rapid Transit Structures, Lev Zetlin and Richard L. Tomasetti, NA:Mar 71: 123
Economic Pipe Sizing in Pumped Irrigation Systems, Roland P. Perold, IR4:Dec 74:425:10988
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72, 171pp.
Full Compensation and Transportation Corridor Analysis, Joseph R. Passonneau, TE2:May 73:393: 9746
Laminated Timber Used in High-Rise Mill Building, L. Elvin Gower, CE:Dec 71:40
Nonconvex Structural Optimization Problems, George I.N. Rozvany, TN: EM1:Feb 73:243:9528
Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632
Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301: 9594

Cost Comparison
Owner-Engineer-Contractor Economic Considerations in Dam Construction, John S. Tamagni, ECCD:72:497
Problems Related to the Construction of Dam Foundation from a Contractors' Viewpoint, John W. Leonard, EFFD:Mar 74:105

Cost Control
Economics of High-Rise Buildings, State-of-Art Report 4B, Walter F. Conlin, Jr., TB:73:Ia-1-119
Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
Management System Saves Highway Maintenance Dollars, Forrest E. Crawford, CE:Aug 71:36
Manual 33- Cost Control and Accounting for Civil Engineers, Task Committee on Revision of Manual 33, Committee on Standards of Practice, Professional Practice Division of ASCE, Nomer Gray, Chairman, 1971, 34 pp.
Requirements of Construction Company Cost System, Paul Teicholz, CO3:Sept 74:255:10786

Cost Effectiveness
Alternative Water Resource Systems in the Lower Mekong, Kanchit Chaemsaithong, Lucien Duckstein and Chester C. Kisiel, HY3:Mar 74:461: 10430
Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72: 869:9434
Economical Refuse Truck Size Determination, Richard P. Cardile and Francis H. Verhoff, EE3: June 74:679:10612

Cost Estimates
Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138
Cost of Thermal Effluent Standards for Power Plants, Leonard Ortolano and Frank A. Smith, PO1:July 74:15:10649
Efficiency of Refuse Collection Crews, Jimmie E. Quon, Robert R. Martens and Masaru Tanaka, SA2:Apr 70:437:7232
Estimating Costs of Aerial Surveys, Antonio M. Aguilar, CE:Oct 69:70
Probilistic Estimating, James E. Spooner, CO1:Mar 74:65:10406
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068
Upgrading Overseas Construction Contracts, Gordon L. Williams, CE:Dec 70:51

Costs
Adaptive Control of Design Codes, Gerald Schorn and Niels C. Lind, EM1:Feb 74:1:10332
Airport Access Cost-Effectiveness Analysis, Richard de Neufville and Edward Mierzejewski, TE3:Aug 72:663:9141
Application of Slip Form Techniques to Dam Construction, J. F. Camellerie, ECCD:72:223
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
Bicycle Registration, Glenn R. Walters, BP73:Dec 73:515
Bidding is Against Client Interest, John T. Merrifield, PP3:July 73:389:9878
Capital Cost Minimization of Drainage Networks, Jarir S. Dajani and Yakir Hasit, EE2:Apr 74:325: 10448
Capital Cost Minimization of Hydraulic Network, Ralf G. Cembrowicz and Joseph J. Harrington, HY3:Mar 73:431:9606
Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600
Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578
Concrete Dam Design and Construction Improvements, Ellis L. Armstrong, ECCD:72:3
Construction Management Works at Federal Hospital, Jerry Kosro, CE:Jan 74:40
Construction Methods for the Soil-Cement Dam, Jerome M. Raphael, ECCD:72:217
Contracting Practices, State-of-Art Report 1, Charles A. DeBenedittis, TB:73:Ia-4-669
Cost-cutting Techniques for Rapid Transit Structures, Lev Zetlin and Richard L. Tomasetti, NA:Mar 71: 123
The Cost of Pollution, Reinhold W. Thieme, WQEF: Mar 70:29

Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
Cost Optimization of Structural Roof System, Samuel L. Lipson and Alan D. Russell, ST8:Aug 71:2057:8291
Cost Optimization of Welded Plate Girders, Natarajan Annamalai, Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258
Cost Reduction Considerations for New Dam Projects, Bertram L. Perkins, ECCD:72:489
Costs and Benefits of Reducing Bicyclists' Exposure to Road-Side Air Pollution, Mike Everett, BP73:Dec 73:352
Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64
Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050
Development of Tunneling Methods and Controls, Ellis L. Armstrong, CO2:Oct 70:99:7577
Draft Guide to Turnkey Construction Contracts, CE:Oct 72:52
Economical Construction of a Concrete Gravity Dam, Lewis H. Tuthill, ECCD:72:65
Economic Analysis of Housing Construction Methods, Shlomo Peer and Abraham Warszawski, CO2:Sept 72:287:9166
Economic Consideration for Construction, Joseph Pirtz, Jr., ECCD:72:507
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
Electronic Traverse Versus Triangulation, John O. Phillips, SU2:Oct 67:29:5491
Energy: A 40 Watt Outlook, Virginia Fairweather, CE:Dec 74:45
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877
Esthetics in Water Towers, John P. Klus, CE:Sept 73:84
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
Further Analysis of Optimum Size Seaport, Stephen R.C. Wanhill, WW4:Nov 74:377:10961
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
General Introduction, Daniel Brand, UTI:71:5
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
Impacts of Colorado River Salinity, Vernon E. Valantine, IR4:Dec 74:495:10985
Increase Fleet Productivity and Decrease Unit Production Costs, Omar E. Rood, Jr., CE:July 74:84
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742
Labor Cost Control, Paul Teicholz, CO4:Dec 74:561:11020
Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
Least Cost Design of Branched Pipe Network System, Arun K. Deb, EE4:Aug 74:821:10711
Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340
Lower Cost Water Harvesting Methods, Keith R. Cooley, Lloyd E. Myers and Gary W. Frasier, IAWM:72:27
Management the Lincoln Electric Way, CE:Jan 73:76
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916
Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72:1575:9206
Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043:9195
More Efficient Local Rural Road Administration, William D. Berg, TE4:Nov 74:975:10942
New York State Spurs Housing, Kneeland A. Godfrey, Jr., CE:Nov 71:53
Offshore Airport Site Planning, Frank T. Wheby, TE3:Aug 74:543:10725
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
On the Need of Wave Data for the Design of Rubble-Mound Breakwaters, Yvon Ouellet, WAVES:Sept 74:500
Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107:10041
Optimization of Steel-Building Components, State-of-Art Report 4, Jan Brodka and Josef Wilbik, TB:73:II-14-201
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73:725:10126
Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:1:9706
Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82
Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Planning Monitoring Frequencies for CPM Projects, Douglas Vasco Costa, CO2:Nov 71:211:8503
Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
Precast Concrete Tunnel Linings for Toronto Subway, John V. Bartlett, Ted M. Noskiewicz and James A. Ramsay, CO2:Nov 71:241:8498
Probabilistic Approach to Estimating and Cost Control, Antonio J. Vergara and LeRoy T. Boyer, CO4:Dec 74:543:11021
Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44
Project Selection Based on Benefits and Costs, Michael Raymond Toakley and John F. Brotchie, CO2:Sept 72:149:9163
Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244
Quality Related Costs of Regional Water Users, Michael B. Sonnen, HY10:Oct 73:1849:10076
Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59
Remote Terminal Cost Estimating, Robert C. Volkman and LeRoy T. Boyer, CO1:Mar 72:1:8756
Removal of Lignin from Water by Precipitate Flotation, Mu-Hao Wang, Marvin L. Granstrom, Thomas E. Wilson and Lawrence K. Wang, EE3:June 74:629:10574
Requirements of Construction Company Cost System, Paul Teicholz, CO3:Sept 74:255:10786
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
Reward-Risk Ratio, Marvin Gates and Amerigo Scarpa, CO4:Dec 74:521:10984
Stochastic Models and Live Load Surveys, State-of-Art Report 2B, William E. Greene, Jr., TB:73:Ib-5-35
Structural Failures from the Human Side, Raymond C. Reese, CE:Jan 73:81
Subsurface Investigation System Planning for Highway Tunnels, James L. Ash, Bruce E. Russell and Robert R. Rommel, EFSE:Aug 74:97
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Transportation Model Applied to Landfill Design, Robert B. Conrad and E. Kenneth Hoffman, EE3:June 74:549:10575

Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941
Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955
Uncertainty, Safety, and Decision in Soil Engineering, Tien H. Wu, GT3:Mar 74:329:10434
Utilization of Marginal Lands for Urban Development, Philip C. Rutledge, SM1:Jan 70:1:7000
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72:333:9259
Water and Pavement Performance, Harry R. Cedergren and Kneeland A. Godfrey, Jr., CE:Sept 74:78

Cost Savings
How to Cut Underground Construction Costs, R. L. Loofbourow, CE:June 72:85
Structural Ground Concept and Wire Fabric Save Time and Money, Don Gehring, CE:Nov 71:50

Cotton Plants
Stress Day Index ... A New Concept for Irrigation Timing, Edward A. Hiler, Terry A. Howell and David G. Bordovsky, OIDS:72:579

Couette Flow
Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73:17:9540

Counseling
Engineering Career Counseling and Education, Ernest C. James and Orville Abbot, CE:Jan 70:71

Couplings
Tall Buildings Elastically Coupled, Ramiro Sofronie, TB:73:Ia-3-637

Covariance
Measurement of Velocity-Concentration Covariance, Raul S. McQuivey and Thomas N. Keefer, HY9:Sept 72:1625:9184
Nonstationary Response of Structural Systems, Robert E. Holman and Gary C. Hart, EM2:Apr 74:415:10502
Statistical Analysis of Continuous Data Records, Ross B. Corotis, TE1:Feb 74:195:10362

Crabs
Impact of Beach Nourishment on Distribution of *Emerita talpoioa*, the Common Mole Crab, Bruce Hayden and Robert Dolan, WW2:May 74:123:10538

Cracking
An Analysis of the Cracking at Duncan Dam, Zdenek Eisenstein, A. V.G. Krishnayya and Norbert R. Morgenstern, PES:72:I-765
Bonded Concrete Overlays, Raouf Sinno and Howard L. Furr, ST8:Aug 70:1627:7450
Concrete Dams Built Without Contraction Joints, Roy W. Carlson, RCCD:70:187
Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72:2663:9423
Cracking and Control, Neil Jackson, TB:73:III-24-723
Cracking and Crack Control, Karl Kordina, TB:73:III-24-721
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1:Feb 72:17:8695
Fluid Interaction with Fracture Propagation in Pipelines, Bernard Steverding and Vernon A. Nieberlein, TE3:Aug 74:583:10726
Influence of Progressive Failure On Slope Stabilities, Fredy Romani, Charles William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
List of Limit States, State-of-Art Report 2, J. Brakel, TB:73:III-26-863
Non-Linear Analysis and Limit Design, Theme Report, Giorgio Macchi, TB:73:III-22-333
The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711
Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923
Stiffness and Crack Control, Summary, J. Ferry Borges, TB:73:III-24-727
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705
Theory of Brittle Fracture Applied to Soil Cement, Kalankamary P. George, SM3:May 70:991:7301
Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687:9428
Three-Dimensional Analysis, Bernardo J. Deschapelles, TB:73:III-24-725
Torsional Strength of Prestressed Concrete Beams, H. Roger Woodhead and Arthur E. McMullen, ST5:May 74:881:10545
Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12:Dec 72:1375:9454

Cracking (Fracturing)
Concrete Strain Capacity Tests -- Their Economic Implications, Donald L. Houghton, ECCD:72:75
Cracking and Crack Control, State-of-Art Report 1, Peter Gergely, TB:73:III-24-645
Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3:June 72:581:8970
Diagonal Tension Cracking in Concrete Beams with Axial Forces, Alan H. Mattock, ST9:Oct 69:1887:6776
Estimating Cracking Behavior of Metallic Structures, W. E. Anderson and Lee A. James, ST4:Apr 70:773:7213
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Partially Cracked Finite Elements, John C. Bell and David G. Elms, TN: ST7:July 71:2041:8226
Specifications and Design Relations, R. S. Fountain, William H. Munse and R. D. Sunbury, ST12:Dec 68:2751:6291
Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639
Strength at Diagonal Cracking under Uniform Load, Madhujit Mukhopadhyay, TN: ST9:Sept 74:1989:10775
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653:9016
Tests of One and Two-Story Flat Plate Models, C. Trevor Harnden, ST3:Mar 74:513:10392
What Designers Should Know About Fracture Toughness, Arthur L. Elliott, CE:Apr 74:70

Crack Propagation
Fluid Interaction with Fracture Propagation in Pipelines, Bernard Steverding and Vernon A. Nieberlein, TE3:Aug 74:583:10726
Statistics of Random Loading Relevant to Fatigue, Jann-Nan Yang, EM3:June 74:469:10591
Stress Intensity Factors by Calibrated Finite Element Method, P. F. Walsh, TN: EM6:Dec 72:1611:9396

Cracks
Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145

Craftsmen
Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185

Cranes (Hoists)
Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Crane Safety, Suzy Fisher, CE:Feb 72:61
Out-of-Plane Buckling of Crane Booms, A. J. Kaninowski and Anatole Longinow, TN: ST10:Oct 70:2261:7572

Crash Tests

Energy Absorbing Roadside Crash Barriers, Flory J. Tamanini and John G. Viner, CE:Jan 70:63

Craters

Crater-sink Sand Transfer System, Douglas L. Inman and Roland W. Harris, 12CEC:71:919

Photogrammetric Mapping of Craters from Small Explosions, George C. Love and Luke J. Vortman, SU1:Oct 69:125:6857

Slope Analysis for Explosive Excavations, Richard H. Gates, RM13:72:243

Crawler Tractors

The Role of Ground Crawling Vehicles in the Ocean, Klaus W. Wiendieck and Dean R. Freitag, CEO-II: 70:327

Creativity

The Creative Force, Will Oursler, CEWAU:74:10

Creativity and the Anti-Technologists, Samuel C. Florman, CEWAU:74:18

Creativity and the Civil Engineer, Lucius R. Boley, CEWAU:74:6

Creativity, The Young Engineer's Viewpoint, David R. Antes, CEWAU:74:22

Creep

Comparison of Approximate Linear Methods for Concrete Creep, Zdenek P. Bazant and Leonard J. Najjar, ST9:Sept 73:1851:10006

Creep and Shrinkage Law for Concrete at Variable Humidity, Zdenek P. Bazant and Spencer T. Wu, EM6:Dec 74:1183:10995

Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741

Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831

Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765

Dirichlet Series Creep Function for Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM2:Apr 73:367:9645

Effect of Creep in Slender Columns, Neil Jackson, TB:73:III-23-625

Effect of Seismic Loading on Undrained Clay Creep, Thomas L. Holzer and Kaare Hoeg, TN: SM1:Jan 73:283:9505

Effects of Creep and Shrinkage on Prestressed Concrete Columns, William J. Wilhelm and Paul Zia, ST10:Oct 70:2103:7614

Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206

Failure of Underwater Slope in San Francisco Bay, James M. Duncan and Albert L. Buchignani, SM9: Sept 73:687:10019

Finite Element Analysis of Rock-Salt Pillar Models, Robert Lee Thoms, Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393

Hyperbolic Functions for Prestress Loss and Camber, Raouf Sinno and Howard L. Furr, ST4:Apr 70:803: 7227

In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72: 899:9202

In-Situ Measurement Of Soil Creep, R. A. Lohnes, Alvaro Millan and Richard L. Handy, TN: SM1: Jan 72:143:8618

Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998

Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131

Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923

Settlements of Pile Groups, Bengt B. Broms, PES:73: III-181

Stability of Slopes Undergoing Creep Deformation, Bing C. Yen, SM4:July 69:1075:6675

Strain and Tilt Observations Near an Active Fault, Charles G. Bufe, RM13:72:685

Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25

Thickness Effects on Creep, Giorgio Macchi, TB:73: III-25-829

Time-Dependent Strength Behavior of Frozen Soils, Orlando B. Andersland and Ilham AlNouri, SM4: July 70:1249:7406

Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775

Creep Properties

Concrete Volume Change for Dworshak Dam, Donald L. Houghton, PO2:Oct 69:153:6825

Large Deflection of Axisymmetric Shell with Creep Strain, Sehng-Rong Lin, Tung-Hua Lin and Bernard Mazelsky, EM1:Feb 74:79:10368

Mechanical Behavior of Rock Under Cyclic Fatigue, Bezalel C. Haimson and Chin Man Kim, RM13:72: 845

Creep Rate

Strain and Tilt Observations Near an Active Fault, Charles G. Bufe, RM13:72:685

Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73: 2123:10055

Creep Rupture Strength

Reinforced Lightweight Concrete Columns, Donald W. Pfeifer, ST1:Jan 69:57:6362

Crimes

Bicycle Registration, Glenn R. Walters, BP73:Dec 73:515

Bicycle Theft and Registration - An Overview, Arthur R. Daniel, Jr., BP73:Dec 73:492

Bicycle Theft: The Problem and The Prevention, Raymond N. Seakan, BP73:Dec 73:496

Criteria

Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1

Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37

Implications of the New ACI Building Code, Edward Cohen, CE:Aug 72:47

Critical Depth

Critical Depth In Trapezoidal Channels, Kuan M. Yao, TN: HY12:Dec 70:2681:7716

Critical Flow

Onset of Instability Of Power-Law Fluid in Couette Flow, Yun-Sheng Yu and Dan B. McVickar, EM1: Feb 71:1:7887

Critical Path Method

Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152

Calendar-Day CPM, Louis R. Shaffer, CE:Aug 69:65

Composite Steel-Concrete Building Frame, Don Belford, CE:July 72:61

Construction Expediting, Arthur Monsey, CO1:June 70:19:7356

The CPM-by-Calendar Algorithm, John B. O'Shea, CO2:Oct 68:139:6142

CPM Use in Top 400 Construction Firms, Edward W. Davis, CO1:Mar 74:39:10395

Improving Airport Gate Usage with Critical Path, John P. Braaksma and John H. Shortreed, TE2: May 71:187:8090

Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275: 9204

Network Analysis and Construction Planning, Shlomo Peer, CO3:Sept 74:203:10792

Networking Methods for Project Planning and Control, Antoine E. Naaman, CO3:Sept 74:357: 10814

New Criterion for Resource Scheduling, E. M. Davies, TE4:Nov 73:741:10118

Owner's Return from CPM-Fact or Fiction, Lewis W. McBride, CO1:June 70:1:7316

Planning Construction of Repetitive Building Units, Robert I. Carr and Walter L. Meyer, CO3:Sept 74: 403:10812

Planning Monitoring Frequencies for CPM Projects, Douglas Vasco Costa, CO2:Nov 71:211:8503

Project Control Using CPM, James J. O'Brien, CE: Apr 74:68

*Project Planning and Control by Time-Sharing Computer, Norman L. Scott and Edward L. Murphree, CO1:Mar 72:37:8758

Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830

Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59

Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47

Simulating Effects of Weather on Construction, Neal B.H. Benjamin and Theodore W. Greenwald, CO1: July 73:175:9888

Crop Production

Changing Crop Priorities and Drainage Requirements, John C. Nibler and Royal H. Brooks, IRS:Sept 72:25

Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73: 421:10229

Irrigation Timing to Maximize Economic Crop Yields, Dan Salcedo and W. L. Meier, Jr., OIDS: 72:81

Simulation Model for the Appraisal of Irrigation Projects, Paul Egli, OIDS:72:35

Crops

Trickle Irrigation Design Requirements for Row Crops, Dale A. Bucks, IR73:Aug 73:673

Crop Yield

Irrigation Scheduling on the Minidoka Project, Idaho, Jerry F. Buchheim, OIDS:72:539

Irrigation Scheduling Using Mean Evapotranspiration Rates, Delvin D. Brosz, OIDS:72:561

Irrigation Timing to Maximize Economic Crop Yields, Dan Salcedo and W. L. Meier, Jr., OIDS: 72:81

Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72: 115

Simulation Model for the Appraisal of Irrigation Projects, Paul Egli, OIDS:72:35

Trickle Irrigation Design Requirements for Row Crops, Dale A. Bucks, IR73:Aug 73:673

Cross Sections

Analytical Plotter System, James R. Skidmore, SU2: Sept 70:253:7559

Application of Computers to Airport Planning and Design, Rufus C. Phillips, III, TE3:Aug 70:341: 7472

Automatic Voltage Drop Compensation for Tall Buildings, Frederick S. Rohatyn, TB:73:Ia-2-382

Instability of Flat Bed in Alluvial Channels, Harry M. Hill, Vajapeyam S. Srinivasan and Tharakkal E. Unny, HY5:Sept 69:1545:6770

Paved Highway Shoulders and Accident Experience, Clinton L. Heimbach, William W. Hunter and George C. Chao, TE4:Nov 74:889:10921

Torsionally Stiff Columns under Eccentric Loads, Donald R. Sherman and Donald E. Lukas, ST2:Feb 70:335:7090

Crude Oil

Crude Storage: Tanks or Caverns?, M. P. Daruwalla and J. N. Hagg, CE:Apr 71:38

Design Criteria for Single-Point Mooring Terminals, J. M. Langeveld, WW4:Nov 74:305:10931

Dsc, A Proposal for ASCE, Paul J. Theuer, CE:Oct 71:38

Environmental Effects of Oil Pollution, Thomas A. Murphy, SA3:June 71:361:8221

Crushed Stone

Mathematical Model for Aggregate Plant Production, Donn E. Hancher and John A. Havers, TN: CO1: Mar 71:171:7972

Crushing

Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70

Dworshak Dam Underground Crushing Chamber, Charles O. Faris, URC:72:147

Cryogenics

Prestressed Cryogenic Pipelines, Marvin B. Gardner, Jr., TE2:May 74:489:10559

Cubic Equations

Cubic Interpolation For Numerical Flood Routing, Paul E. Barker and Thomas P. Propson, TN: HY1: Jan 72:309:8617

Graphical Method for Finding All Roots of Quadratic and Cubic Equations, J. Y. Benzies, CE: Jan 71:53

Culverts

Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72: 2329:9325

Concrete Pipe Culvert Behavior - Part 2, Raymond Eugene Davis and Alfred E. Bacher, ST3:Mar 74: 615:10408

Concrete Pipe Culvert Behavior—Part 1, Raymond Eugene Davis, Alfred E. Bacher and John C. Obermuller, ST3:Mar 74:599:10404

Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547: 9117

Energy Dissipators for Large Culverts, Thomas C. MacDonald, HY6:Nov 69:1941:6893

Flexible Culverts Under High Fills, Colin B. Brown, David R. Green and Stuart Powsey, ST4:Apr 68: 905:5888

New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50

Nonenlarged Box Culvert Inlets, John L. French, HY6:Nov 69:2115:6928

Optimal Design for Highway Drainage Culverts, George K. Young, Jr., Mitchell R. Childrey and Roy E. Trent, HY7:July 74:971:10676

Steel Highway Accessory Structures, Donovan S. Wolford, ST7:July 71:1991:8255

Stresses Against Underground Structural Cylinders, Kaare Hoeg, SM4:July 68:833:6022

Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858

Structural Behavior of Concrete Arch Culvert, Raymond Eugene Davis, ST12:Dec 69:2665:6942

What's New in Water and Sewer Pipe, Kneeland A. Godfrey, Jr., CE:Oct 70:46

Cumulus Clouds

Priority Problems for Modifying Cumulus Precipitation, Lewis O. Grant, IR73:Aug 73:131

Curing

Economic Aspects of Curing Mass Concrete, Bryant Mather, ECCD:72:39

Quick Quality Testing of Concrete, Peter Smith, CE: Aug 70:52

Use of Curing Compounds on Horizontal Construction Joints, James R. Graham, ECCD:72: 55

Workshop A -- Advances in Concrete Technology, Samuel D. Burks, ECCD:72:153

Current Meters

Harbor Study for San Nicolas Bay, Peru, James M. Keith and Emmett J. Murphy, 12CEC:71:2195

Rapid Discharge Measurement In Tidal Inlets, Bent A. Christensen and H. E. Walker, CEO-II:70:743

Water Current Meter for Mean Flow Measurements, David Smith, 12CEC:71:1903

Currents

Peak Distribution of Random Wave-Current Force, Chi C. Tung, EM5:Oct 74:873:10843
Three-Dimensional Density Current, Trevor R. Fietz and Ian R. Wood, HY6:Nov 67:1:5549

Currents (Water)

Coastal Engineering Measurements, Johan A. Zwamborn, K. S. Russell and J. Nicholson, CE13: 72:I-75
Distorted Modeling of Density Currents, James J. Sharp, CE13:72:III-2329
Distribution of Sediment Transport Across the Surf Zone, Edward B. Thornton, CE13:72:II-1049
Elbe Tidal Model with Movable Bed, Hans Vollmers and Egon Giese, CE13:72:III-2447
Field Observations of Nearshore Current System, Kiyoshi Horikawa and Tamio Sasaki, CE13:72:I-635
A Gross Longshore Transport Rate Formula, Cyril J. Galvin, Jr., CE13:72:II-953
Harbor Study for San Nicolas Bay, Peru, James M. Keith and Emmett J. Murphy, 12CEC:71:2195
Influence of Current on Statistical Properties of Waves, Chi C. Tung and Norden E. Huang, WW4: Nov 74:267:10922
Interaction between Waves and Currents, Ivar G. Jonsson, Christian Skougaard and John D. Wang, 12CEC:71:489
Mathematical Modeling of Large Objects in Shallow Water Waves and Uniform Current, Hsiang Wang, CE13:72:III-1783
Measurement of Sediment Suspension in Combinations of Waves and Currents, J. Kirkegaard Jensen and Torben Sorensen, CE13:72:II-1097
Mixing of Columbia River and Ocean Waters in Summer, T. John Conomas and M. Grant Gross, SA5:Oct 68:979:6187
Modeling Sedimentation at Inlet and Coastal Region, Pang-Mou Lin, CE13:72:II-883
Nearshore Currents Southeastern Strait of Georgia, M. L. Schwartz, R. C. Fackler, E. A. Hoerauf, C. E. Larsen, K. L. Lingbloom and M. A. Short, CE13:72:III-2503
On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335
Prediction of Near-Surface Drift Currents from Wind Velocity, Jin Wu, HY9:Sept 73:1291:9995
Simultaneous Data System for Instrumenting the Shelf, Robert L. Lowe, Douglas L. Inman and Birchard M. Brush, CE13:72:I-95
Studies on the Navigation Buoy for Strong Tidal Currents and Large Waves, Shoshichiro Nagai, Kazuki Oda and Katsuhiko Kurata, CE13:72:III-1743
Systematic Study of Coastal Erosion and Defence Works in the Southwest Coast of India, N. S. Moni, CE13:72:II-1427
Tidal Hydraulics in the Cano Macareo, Shih-Ang Zagustin, Frank D. Masch and Robert J. Brandes, CE13:72:III-2429
Tidal Inlet Current -- Ocean Wave Interaction, Lyndell Z. Hales and John B. Herbich, CE13:72:I-669
Turbulence in Hurricane-Generated Coastal Currents, Stephen P. Murray, 12CEC:71:2051
Wind-Generated Current and Phase Speed of Wind Waves, Omar H. Shemdin, CE13:72:I-537

Curtain Walls

Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079
Cables Support Office Building, Bogue B. Babicki, CE:Oct 71:64
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153

Curvature

Biaxial Moment Thrust Curvature Relations, Robert F. Warner, ST5:May 69:923:6564
Curvature and the Solution of Eccentrically Loaded Columns, Wai F. Chen and Sakda Santathadaporn, EM1:Feb 69:21:6382
Driving Behavior of Long Steel Piles, Peter Y. Lee, PES:72:I-1259
Effect of Curvature on Nonlinear Frame Analyses, Mike E. James, Jr., Thomas J. Kozik and Jose E. Martinez, ST7:July 74:1451:10681
Effects of Initial Curvature on Column Strength, Wai F. Chen, TN: ST12:Dec 70:2685:7717
Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
General Analysis of Laterally Loaded Beam-Columns, Francois Cheong Siat Moy, ST6:June 74: 1263:10625
General Solution of Inelastic Beam-Column Problem, Wai F. Chen, EM4:Aug 70:421:7482
Imposed Rotations Methods, State-of-Art Report 3, Jean Claude Maldague, TB:73:III-22-395
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Performance of Two Mat Foundations on Boston Blue Clay, Salvatore V. DeSimone and James P. Gould, PES:72:I-953
Railroad Track Relocation Saves Time, Money, John G. Fry, CE:May 74:86
Tangent Stiffness Method for Biaxial Bending, Sakda Santathadaporn and Wai F. Chen, ST1:Jan 72:153: 8637
Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867

Curved Beams

Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73: 799:9715
Analysis of Curved Folded Plate Structures, Christian Meyer and Alexander C. Scordelis, ST10:Oct 71: 2459:8434
Analysis of Curved Girder Bridges, Lansford C Bell and Conrad P Heins, Jr., ST8:Aug 70:1657:7462
Analysis of Horizontally Curved Box Girder Bridges, Kuang-Han Chu and Suresh G. Pinjarkar, ST10:Oct 71:2481:8453
Analysis of Laminated Curved Beams, Antone F. Sayegh and Stanley B. Dong, EM4:Aug 70:471: 7495
Behavior of Single Horizontally Curved Girder, Conrad P. Heins, Jr. and Kenneth R. Spates, ST7: July 70:1511:7420
Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
Collapse of Curved Reinforced Concrete Beams, Ian J. Jordaan, Magdi M. A. Khalifa and Arthur E. McMullen, ST11:Nov 74:2255:10951
Complementary Energy Method for Buckling of Arches, Cenap Oran, EM2:Apr 68:639:5912
Criteria for Heat Curving Steel Beams and Girders, Roger L Brockenbrough, ST10:Oct 70:2209:7638
Curved Beam Stiffness Coefficients, Dale L. Morris, ST5:May 68:1165:5947
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
Experimental Stresses and Strains from Heat Curving, Roger L. Brockenbrough and Kenneth D. Ives, ST7:July 70:1305:7400
Flexibility Influence Functions for Curved Beams, Myron C. Young, ST7:July 69:1407:6657
Free Vibration Of Horizontally Curved Beams, Sidney Shore and Swapan Chaudhuri, TN: ST3:Mar 72:793:8755
Horizontally Curved Girders-State of the Art, Paul F. McManus, Ghulam A. Nasir and Charles G. Culver, ST5:May 69:853:6546
Inelastic Flange Buckling of Curved Plate Girders, Charles G. Culver and Ghulam A. Nasir, ST4:Apr 71:1239:8072
Influence Surfaces for Curved Multibeam Bridges, Cenap Oran and Sheng Ching Lin, ST7:July 73: 1349:9846
Local Instability of Horizontally Curved Members, Charles G. Culver and Ralph E. Frampton, ST2: Feb 70:245:7079

Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603

Multicell Curved Girder Model Studies, Conrad P. Heins, Jr., Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835

Out-Of-plane Buckling of Curved Members, Morris Ojalvo, Edvins Demuts and Frank J. Tokarz, ST10: Oct 69:2305:6865

Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848

Radial Stresses in Curved Timber Beams, Ricardo O. Foschi and Selwyn P. Fox, ST10:Oct 70:1997:7582

Skew and Elevated Support Effects on Curved Bridges, Donald W. Funkhouser and Conrad P. Heins, Jr., ST7:July 74:1379:10670

Stiffness Method for Curved Box Girders at Initial Stress, Zdenek P. Bazant and Mahjoub El Nimeiri, ST10:Oct 74:2071:10877

Survey of Curved Girder Bridges, Roger L. Brockenbrough, Chmn., CE:Feb 73:54

Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867

Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130

Tranverse Stiffener Requirements for Curved Webs, Nicholas Mariani, John D. Mozer, Clive L. Dym and Charles G. Culver, ST4:Apr 73:757:9684

Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620

Curved Profiles

Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631

Curve Fitting

Stress-Strain Properties of Compacted Clays, David E. Daniel and Roy E. Olson, GT10:Oct 74:1123: 10869

Curves

Computer Technology in New Line and Relocation Planning, R. A. Stane, TE3:Aug 70:291:7458

Design Aids for Beams with Circular Eccentric Web Holes, Richard G. Redwood and Peter W. Chan, ST2:Feb 74:297:10331

Determination of Wheel Trajectories, Ezra Hauer, TE4:Nov 70:463:7653

Experimental Stresses and Strains from Heat Curving, Roger L. Brockenbrough and Kenneth D. Ives, ST7:July 70:1305:7400

Flow Processes in Open Channel Bends, Robert P. Apmann, HY5:May 72:795:8886

Laser Alignment Techniques Utilized in Tunneling, Austin Cooney, SU2:Sept 70:229:7545

Offsets to Sight Obstructions Near the Ends of Horizontal Curves, William L. Raymond, Jr., CE: Jan 72:71

Optimum Curvature Principle in Highway Routing, Bernard E. Howard, Z. Bramnick and Jocelyn F.B. Shaw, HW1:June 68:61:5987

Response of Horizontally Curved Bridge to Moving Load, Chen Pang Tan and Sidney Shore, ST9:Sept 68:2135:6125

Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Cutoffs

Analysis and Behaviour of a Concrete Cutoff Wall (In Spanish), Jesus Alberro A., 4PCSM:71:II275

Camanche Dike-2 Slurry Trench Seepage Cutoff, Walter F. Anton and David J. Dayton, PES:72:I-735

Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:I237

Effectiveness of Cut-offs under Three Earth Dams, Milton Vargas, 4PCSM:71:II257

Field Measurements at La Angostura Cofferdams, Luis Ramirez De Arellano and Edmundo Moreno Gomez, PES:72:I-779

Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273

Seepage Characteristics of Imperfect Cutoffs, Francis G. McLean and Raymond J. Krizek, TN: SM1:Jan 71:305:7787

Cutoff Trenches

Effectiveness of Cut-offs under Three Earth Dams, Milton Vargas, 4PCSM:71:II257

Seepage Control in the Rio Jaguari Dam and Dike, Lincoln de A. Queiroz, Hamilton G. de Oliveira, Ruy Taiji Mori and Francisco Nazario, 4PCSM:71: II293

Cutoff Walls

Analysis and Behaviour of a Concrete Cutoff Wall (In Spanish), Jesus Alberro A., 4PCSM:71:II275

Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:I237

Effectiveness of Cut-offs under Three Earth Dams, Milton Vargas, 4PCSM:71:II257

Manicouagan 3 Cut-Off, Yves Pigeon, EFFD:Mar 74: 289

Cuts

Criteria for Lateral Pressures for Braced Cuts, William J. Armento, PES:72:I-1283

Stability of Slurry Trench Cuts in Saturated Clay, George G. Meyerhof, PES:72:I-1451

Three-Dimensional Approach for Design of Cuts in Jointed Rock, Francois E. Heuze and Richard E. Goodman, RM13:72:397

Cutting

Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555

Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Cutting Management

Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73: 793:9748

Cyanophyta

Ecology of Blue-Green Algal Viruses, Robert E. Cannon, Miriam S. Shane and Eugene DeMichele, EE6:Dec 74:1205:11012

Cybernetics

Man-Oriented Program System For Engineering Design, George Rabe and Vincent A. Trossello, EC5:70:353

Cycles

Basic Principles of Pulse Irrigation, David Karmeli and Gideon Peri, IR3:Sept 74:309:10831

Wet-Wells Volumes for Multipump Systems, Gunther Goldschmidt, IR3:Sept 74:371:10830

Cyclic Loads

Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915

Behavior of Dry Sands under Cyclic Loading, D. H. Timmerman and Tien H. Wu, SM4:July 69:1097: 6698

Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790

Cyclic Yield Reversal in Steel Building Joints, Egor P. Popov and Bruce R. Pinkney, ST3:Mar 69:327: 6441

Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725

Fatigue Tests of Beams with Rectangular Web Holes, Ronald W. Frost and Robert E. Leffler, SM2:Feb 71:509:7913

Inelastic Bar Subjected To Thrust and Cyclic Bending, Ben Kato and Hiroshi Akiyama, ST1:Jan 69:33:6335

Inelastic Behavior Under Cyclic Loading, Egor P. Popov, TB:73:II-15-383

Inelastic Response for Arbitrary Histories of Loads, Frank Baron and Mahadeva S. Venkatesan, EM3: June 69:763:6634

Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957

Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES: 72:I-1105

Mechanical Behavior of Rock Under Cyclic Fatigue, Bezalel C. Haimson and Chin Man Kim, RM13:72: 845

Plastic Buckling of Shells Under Cyclic Loading, Kenneth W. Neale and John Schroeder, EM1:Feb 74:63:10345

Repeated and Cyclic Loadings, Hiroyuki Aoyama, TB:73:III-22-460

Response of Rate-Sensitive Frames to Impulsive Loads, Nicholas Perrone, EM1:Feb 71:49:7890

Shakedown of Strain-Hardening Structures, John D. Meyer and Kurt H. Gerstle, ST1:Jan 72:95:8641

Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817

Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564

Test Procedures for Measuring Soil Liquefaction Characteristics, H. Bolton Seed and William H. Peacock, SM8:Aug 71:1099:8330

Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134

Unified Approach to the Theory of Plastic Structures, M. Z. Cohn, Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246

Cyclones

Wave Climate in the Eastern Caribbean, Compton Deane, WAVES:Sept 74:214

Cylinders

Aerodynamic Forces on a Triangular Cylinder, C. F.M. Twigge-Molecey and W. Douglas Baines, EM4:Aug 73:803:9904

Drag Coefficient of Cylinders in Turbulent Flow, Stephen C. Ko and Walter H. Graf, HY5:May 72: 897:8920

Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333

Nonlinear Wave Forces on Halfcylinder and Hemisphere, Subrata K. Chakrabarti and Robert A. Naftzger, WW3:Aug 74:189:10710

Tests on Cylinders in Turbulent Flow, Walter H. Graf and Stephen C. Ko, TN: HY8:Aug 71:1265: 8274

Three-Dimensional Vibrations of Orthotropic Cylinders, Fang-Hui Chou and Jan D. Achenbach, EM4:Aug 72:813:9102

Virtual Mass Of Cylinders In Water, Frederic T. Mavis, TN: HY1:Jan 72:319:8617

Wave Forces on Cylinders Near Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, WW4:Nov 74:345:10944

Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Wind Load on Cylinder With Spanwise Protrusion, David F. James and Quan-Si Truong, EM6:Dec 72: 1573:9416

Cylindrical Bodies

Shear Flow Past Circular Cylinder, Thomas L. Shaw and Michael R. Starr, HY3:Mar 72:461:8774

Cylindrical Shells

Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641: 8982

Analysis of Eccentrically Stiffened Cylindrical Shells, Peter C. Kohnke and William C. Schnobrich, ST7: July 72:1493:9033

Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473

Analytical Study of Tubular Tee-Joints, Alexander C. Scordelis and Jack G. Bouwkamp, ST1:Jan 70:65: 7016

Buckling of Cylindrical Shells by Wind Pressure, Yung-shih Wang and David P. Billington, EM5:Oct 74:1005:10874

Buckling of Open Cylindrical Shells with Imperfections, Peter Turula and Kuang-Han Chu, EM6:Dec 70:1125:7733

Buckling of Open Cylindrical Shells Under Lateral Load, Kuang-Han Chu and Peter Turula, EM6:Dec 70:1142:7736

Buckling Stress States of Cylindrical Shells, Ihsan Mungan, ST11:Nov 74:2289:10965

Cantilever Cylindrical Shells Under Assumed Wind Pressures, S. Gopalacharyulu and D. J. Johns, EM5:Oct 73:943:10085

Cylindrical Shell Subject to Longitudinal Line Load, Amir K. Naghdi, EM5:Oct 70:653:7617

Cylindrical Shell Under Sudden PressurizatioE, Edward G. Lovell, EM6:Dec 70:1229:7776

Dynamic Buckling of Cylindrical Shell, Charles C. Cromer and Robert E. Ball, EM3:June 71:657:8187

Dynamic Response of Imbedded Cylindrical Shell, Raymond Parnes, EM2:Apr 71:421:8073

Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72: 47:8717

Elastic Stability of Cylindrical Shells Under External Pressure, Cary K.K. Mak, Luis E. Amaya and Harry C. Saxe, CEO-II:70:535

Forced Motion of Cylindrical Shells, Herbert Reisman and John Medige, EM5:Oct 68:1167:6183

Free Vibration Characteristics of Shell Roofs, Anand S. Arya and Shashi K. Thakkar, EM1:Feb 71:109: 7929

Inelastic Behavior Of R/C Cylindrical Shells, Harry G. Harris and Richard N. White, ST7:July 72:1633: 9074

Limit Pressures of Rigidly Clamped Circular Cylindrical Shells, Hwa-Shan Ho, EM4:Aug 74:757: 10759

Linear Theory of Orthotropic Cylindrical Shells, Osman A. Marzouk and George Abdel-Sayed, ST11:Nov 73:2287:10143

Noncircular Cylinder Vibration by Multilocal Method, Ahmed K. Noor, EM2:Apr 73:389:9677

Nonsymmetric Vibrations of Thin Cylindrical Shells, Chi-Wen Lin, ST10:Oct 70:2175:7632

Plastic Buckling of Shells Under Cyclic Loading, Kenneth W. Neale and John Schroeder, EM1:Feb 74:63:10345

Postbuckling Behavior of Open Cylindrical Shells, Kuang-Han Chu and Peter Turula, EM6:Dec 70: 877:7723

Simplified Theory of Thin Cylendrical Shells, Yung-shih Wang, Peter C.Y. Lee and David P. Billington, EM4:Aug 74:719:10720

Stability of Cylindrical Shells under Random Excitation, John A. Lepore and Robert A. Stoltz, EM3:June 74:531:10628

Vibration Analysis of Thin Cylindrical Containers, Anand S. Arya, Shashi K. Thakkar and Atul C. Goyal, EM2:Apr 71:317:8010

Wave Propagation in Transversely Isotropic, Layered Cylinders, Henry E. Keck and Anthony E. Armenakas, EM2:Apr 71:541:8071

Cysts

Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, NSCD: 71:319

Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567

Damage

Applications Programs of Hail Suppression, Thomas J. Henderson, OIDS:72:403

Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398

Damage Evaluation, State-of-Art Report 5B, S. Bubnov, TB:73:Ib-6-247

Damage Functions for a Rubble-mound Breakwater Under the Effect of Swells, Juan B. Font, 12CEC: 71:1567

Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725

Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229

Fatigue Damage Factor in Structural Design, Jhy-Pyng Tang and James T.P. Yao, ST1:Jan 72:125: 8647

Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397

In-Home Shelters from Extreme Winds, Ernst W. Kiesling and David E. Goolsby, CE:Sept 74:105

Probabilities of Rare Floods, Leo R. Beard, IMROD: Sept 73:314

Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365

Soil Conditions and Building Damage in 1967 Caracas Earthquake, H. Bolton Seed, Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108

Spillway Foundation Damage and Repairs, Andrew Eberhardt, EFFD:Mar 74:401

A Study of Damage to a Residential Structure from Blast Vibrations, John F. Wiss and Harry R. Nicholls, DRS:74, 80pp.

Toward a Coherent Natural Hazards Policy, John H. Wiggins, CE:Apr 74:74

Wind and Surge Damage Due to Hurricane Camille, Herbert C. S. Thom and R. D. Marshall, WW2: May 71:355:8144

Damage Assessment

Damage Assessment of Household Water Quality, Dennis P. Tihansky, EE4:Aug 74:905:10700

Damage Control

Expansive Soils -- the Hidden Disaster, D. Earl Jones, Jr. and Wesley G. Holtz, CE:Aug 73:49

Quake Lesson from Managua: Revise Concrete Building Design, Mark Fintel, CE:Aug 73:60

Dam Construction

Air Conveyed Concrete -- A Unique Cost-Saving System for Mixing and Placing Concrete, Reg A. Anderson and Fred N. Mueller, ECCD:72:273

Application of Slip Form Techniques to Dam Construction, J. F. Camellerie, ECCD:72:223

Boulder Creek - An Environmental Status Report, Gerard E. Mick, CO1:Mar 74:1:10389

Concrete Dam Construction Practices, Marcello Garavaglia, ECCD:72:467

Concrete Production and Placing at Gordon Dam, Tasmania, Henry H. Thomas, ECCD:72:299

Construction Methods for the Soil-Cement Dam, Jerome M. Raphael, ECCD:72:217

Construction of a Pumped Storage Power Plant on Soil Foundations, Robert L. Polvi, EFFD:Mar 74: 143

Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295

Construction Systems for Concrete Dams, Albert D. Parker, ECCD:72:219

Control of Turbidity at Construction Sites, Melvin F. Katzer, ECCD:72:353

Conveying Concrete to Lower Dam Construction Costs, James L. Cope, ECCD:72:247

Cost Reduction Considerations for New Dam Projects, Bertram L. Perkins, ECCD:72:489

Economic Consideration for Construction, Joseph Pirtz, Jr., ECCD:72:507

Emergency Grouting of Old River Low Sill Structure, La., E. Burton Kemp, EFFD:Mar 74:371

Forms for Concrete Dams, Art E. Freyre, ECCD:72: 265

Foundation Construction Problems at Corps of Engineers Projects, Paul R. Fisher, John C. Bowman, Jr. and Benjamin I. Kelly, Jr., EFFD:Mar 74:121

Foundation of Cerro de Oro Dam, Mexico, Raul J. Marsal and Aurelio Benassini, EFFD:Mar 74:249

Geotechnical Studies for La Angostura Project, Mexico, Raul J. Marsal, EFFD:Mar 74:425

Jose Ma de Oriol Dam, Manuel Castillo, EFFD:Mar 74:167

New Dam Construction Concept, Otto R. Lunn, ECCD:72:307

Noise Control at Construction Sites, Herbert G. Poertner, ECCD:72:375

Owner-Engineer-Contractor Economic Considerations in Dam Construction, Gerald T. McCarthy, ECCD:72:493

Owner-Engineer-Contractor Economic Considerations in Dam Construction, John S. Tamagni, ECCD:72:497

Owner-Engineer-Contractor Economic Considerations in Dam Construction, George L. Beard, ECCD:72:503

Panel on Owner-Engineer-Contractor Economic Considerations in Dam Construction, Geo. H. Atkinson, ECCD:72:483

Plant Layout for Economical Concrete Dam Construction, Clarence L. Gallimore, ECCD:72:209

Preservation and Restoration of the Landscape, Herbert S. Conover, ECCD:72:365

Problems Encountered in Construction of Dam Foundations, R. W. Bock, W. G. Harber and M. Arai, EFFD:Mar 74:87

Problems Related to the Construction of Dam Foundation from a Contractors' Viewpoint, John W. Leonard, EFFD:Mar 74:105

Reporter's Notes -- Session VI, John W. Leonard, ECCD:72:515

Report of Workshop B's First Session, James I. Barnes, ECCD:72:329

Report of Workshop B's Second Meeting -- Construction Specifications, Equipment, and Systems for Concrete Dams, Jack W. Ward, ECCD:72:337

Session III-Control of Pollution in Concrete Dam Construction, Dwight L. Glasscock, ECCD:72:391

Stone Asphalt Cores Waterproof French Dams, Victorien Lelu, CE:Apr 72:70

Summary of Session V -- Foreign Practices in Concrete Dam Construction, James E. Bennett, ECCD:72:477

Summary of the Conference, Arthur J. Fox, Jr., ECCD:72:521

Trends in Design and Construction Practice for Concrete Dams, Jean M. Muller, ECCD:72:397

Unusual Foundation Developments and Corrective Action Taken, Doyle L. Christensen, EFFD:Mar 74:343

The Use of Prestressing in Dams in Tasmania, Henry H. Thomas, ECCD:72:287

Dam Failure

Analyzing and Strengthening Concrete Dams on Deficient Foundation, Glen S. Tarbox, IMROD: Sept 73:741

Causes of the Failure of the Malpasset Dam, Michel A. Carlier, EFFD:Mar 74:5

Closing Remarks, Ellis L. Armstrong, IMROD:Sept 73:901

Dam Safety Program in Pennsylvania, Clifford H. McConnell, IMROD:Sept 73:139

Determination of the Adequacy of Investigations for Evaluation of Dam Safety, William A. Wahler, IMROD:Sept 73:714

Evaluating Foundation Seepage Problems, Ernest L. Dodson, IMROD:Sept 73:609

Evaluation of Effects of Ground Shaking on Concrete Gravity Dams, Anil K. Chopra, IMROD:Sept 73: 771

Foundation Seepage Control Options for Existing Dams, Lloyd R. Gebhart, IMROD:Sept 73:660

Foundations of Existing Dams -- Seepage Control, James E. Ley, IMROD:Sept 73:584

General Report on Seismic Hazards and Problems, H. Bolton Seed, Julio E. Valera, Rudy J. Dietrich and Walter F. Anton, IMROD:Sept 73:745

Geotechnical Investigations of the Aberfan Disaster (Book Reviews), H. Bolton Seed, CE:May 70:94

Inspection, Maintenance and Remedial Treatment: San Francisco Water Department, Julian L. Bardoff and Paul T. Matsumura, IMROD:Sept 73:849
The Johnstown Flood Revisited, Alfred R. Pagan, CE:Aug 74:60
Potentially Active Faults in Dam Foundations, James L. Sherard, IMROD:Sept 73:768
Program for Investigation and Analysis of Dams -- Los Angeles County Flood Control District, Richard B. Roche, Jr., IMROD:Sept 73:804
Silver Lake Reservoir Reconstruction, LeVal Lund, IMROD:Sept 73:814
Some Seismic Studies of Old Dams, Jerry A. Jedlicka, IMROD:Sept 73:840
Stresses in an Earth Dam due to Contruction and Reservoir Filling, Julio E. Valera and Jian C. Chen, GT74:June 74:33
Unusual Foundation Developments and Corrective Action Taken, Doyle L. Christensen, EFFD:Mar 74:343
When is Foundation Seepage Unsafe?, William A. Clevenger, IMROD:Sept 73:570

Dam Foundations
Analyses and Records -- Dutch Hollow Dam, Kenneth H. Kastman, PES:72:I-285
Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817
An Analysis of the Cracking at Duncan Dam, Zdenek Eisenstein, A. V.G. Krishnayya and Norbert R. Morgenstern, PES:72:I-765
Analyzing and Strengthening Concrete Dams on Deficient Foundation, Glen S. Tarbox, IMROD: Sept 73:741
Camanche Dike-2 Slurry Trench Seepage Cutoff, Walter F. Anton and David J. Dayton, PES:72:I-735
Construction of a Pumped Storage Power Plant on Soil Foundations, Robert L. Polvi, EFFD:Mar 74: 143
Dam Foundation Problems and Solutions, B. I. Maduke, EFFD:Mar 74:69
Engineering Geologist's Responsibilities in Dam Foundation Studies, Don U. Deere, EFFD:Mar 74: 417
Evaluating Foundation Seepage Problems, Ernest L. Dodson, IMROD:Sept 73:609
Foundation Construction Problems at Corps of Engineers Projects, Paul R. Fisher, John C. Bowman, Jr. and Benjamin I. Kelly, Jr., EFFD:Mar 74:121
Foundation of Cerro de Oro Dam, Mexico, Raul J. Marsal and Aurelio Benassini, EFFD:Mar 74:249
Foundation Seepage Control Options for Existing Dams, Lloyd R. Gebhart, IMROD:Sept 73:660
Foundations of Existing Dams -- Seepage Control, James E. Ley, IMROD:Sept 73:584
French Laws and Regulations Regarding Dam Supervision and Inspection, Michel A. Carlier, IMROD:Sept 73:198
Geotechnical Studies for La Angostura Project, Mexico, Raul J. Marsal, EFFD:Mar 74:425
Grouting: Then, Now and Where, J. F. Daly, EFFD: Mar 74:57
Highlights — Foundation Exploration and Design — Locks and Dam No.26 (Replacement), Bruce H. Moore, EFFD:Mar 74:11
Introduction — Foundations of Dams, Richard D. Harza, EFFD:Mar 74:1
Investigation of Earth Dam Foundations, John P. Bara, EFSE:Aug 74:381
Jose Ma de Oriol Dam, Manuel Castillo, EFFD:Mar 74:167
Mattmark — A Dam Founded on Alluvial and Morainic Deposits, Bernhard E. Gilg, EFFD:Mar 74:215
Norwood Dam Foundation Stabilization: A Case History, John C. Matte, IMROD:Sept 73:697
Performance Record of Walter F. George Lock and Dam, Robert L. Crisp, Jr., PES:72:I-691
Potentially Active Faults in Dam Foundations, James L. Sherard, IMROD:Sept 73:768
Present State of the Grouting Industry in the United States, Joseph P. Welsh, EFFD:Mar 74:65
Problems Encountered in Construction of Dam Foundations, R. W. Bock, W. G. Harber and M. Arai, EFFD:Mar 74:87
Problems Related to the Construction of Dam Foundation from a Contractors' Viewpoint, John W. Leonard, EFFD:Mar 74:105
Purpose or Need for Grouting in the Treatment of Foundations, Judson P. Elston, IMROD:Sept 73: 563
A Review of TVA's Problems and Treatment of Foundations of Existing Dams, Lloyd W. Lundin, IMROD:Sept 73:641
Spillway Foundation Damage and Repairs, Andrew Eberhardt, EFFD:Mar 74:401
Stability of Existing Dam Foundations, Jacob F. Redlinger, IMROD:Sept 73:677
Stability of Old Dams as Related to Their Foundations, Karl V. Taylor, IMROD:Sept 73:688
Summary — Foundations for Dams, Edward D. Graf, EFFD:Mar 74:465
Summary of Workshop on Foundations, Melvin A. Jabara and Paul K. Bock, IMROD:Sept 73:541
Unusual Foundation Developments and Corrective Action Taken, Doyle L. Christensen, EFFD:Mar 74:343
When is Foundation Seepage Unsafe?, William A. Clevenger, IMROD:Sept 73:570

Damping
Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175
Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218
Decay of Mass Oscillations in Rectangular Basins, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY1: Jan 74:119:10261
Deformation Characteristics of Sands Under Cyclic Loading, Marshall L. Silver and H. Bolton Seed, SM8:Aug 71:1081:8334
Dynamic Anlaysis Of Three-Dimensional Frames, Roger E. Scholl, TN: ST1:Jan 72:401:8619
Dynamic Moduli and Damping Ratios For Soft Clay, William D. Kovacs, H. Bolton Seed and Clarence K. Chan, SM1:Jan 71:59:7813
Dynamic Prestraining of Dry Sand, Vincent P. Drnevich and Frank E. Richart, Jr., SM2:Mar 70: 453:7160
Elimination Of Secularity In Regular Perturbation, W. F. Ames and H. M. Khalil, TN: EM2:Apr 72: 487:8815
Empirical Damping Constants for Sands and Clays, Harry M. Coyle and Gary C. Gibson, SM3:May 70:949:7296
Forced Vibration of Class of Nonlinear Dissipative Beams, Sami F. Masri, EM4:Aug 73:669:9959
Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, Y. Yokoo and Hiroshi Akiyama, TB:73:II-17-619
Longitudinal Motions of Taut Moorings, Tokuo Yamamoto, John H. Nath and Charles E. Smith, WW1:Feb 74:35:10321
Modal Damping in Dynamic Analysis of Structures, Kao Ding Chiu and Hung Jen Kuo, SDNPF:Dec 73:499
Motion-Reducing Device Under Seimic Excitation, Paul H. Wirsching and James T.P. Yao, TN: EM1: Feb 72:285:8687
Nonstationary Response of Structural Systems, Robert E. Holman and Gary C. Hart, EM2:Apr 74: 415:10502
Optimal Random Vibration Absorbers, Raymond G. Jacquot and David L. Hoppe, TN: EM3:June 73: 612:9765
Oscillatory Behavior Of Submerged Structures, Robert Y. S. Lai and Lyle F. Mockros, CEO-II:70: 945
Periodic Excitation of Multiple-Unit Impact Dampers, Sami F. Masri, EM6:Dec 70:1195:7747

Seismic Response by Variable Damping Finite Elements, Izzat M. Idriss, H. Bolton Seed and Norman Serff, GT1:Jan 74:1:10284
Seismic Response of Soil Deposits, Izzat M. Idriss and H. Bolton Seed, SM2:Mar 70:631:7175
Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977
Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807
Structural Dampers, P. Mahmoodi, ST8:Aug 69:1661:6725
Structural Systems, Theme Report, Leslie E. Robertson, TB:73:Ia-3-403
Torsional Vibration of Viscoelastic Foundations, Anestis S. Veletsos and V. V. Damodaran Nair, GT3:Mar 74:225:10415
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134
U.S. Steel Headquarters Building, CE:Apr 70:58
Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, Kenneth H. Lenzen, TB:73:II-17-667
Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S., Sani and M. M. Malhotra, HY5:May 72:887:8923
Wave Observations with Capacitance-Type Wave Gauge Array Installed on a Long Pier, Yoshito Tsuchiya and Masataka Yamaguchi, WAVES:Sept 74:689

Damping Capacity
Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213

Dams
Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127
Admixtures, Bryant Mather, RCCD:70:75
Aguada Blanca Rockfill Dam with Metal Facing, Piero Sembenelli and Marco Fagiolo, GT1:Jan 74:31:10270
Air Conveyed Concrete -- A Unique Cost-Saving System for Mixing and Placing Concrete, Reg A. Anderson and Fred N. Mueller, ECCD:72:273
The Allowable Settlement of Structures, Hugh Q. Golder, 4PCSM:71:I171
Analysis and Behaviour of a Concrete Cutoff Wall (In Spanish), Jesus Alberro A., 4PCSM:71:II275
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
Analyzing and Strengthening Concrete Dams on Deficient Foundation, Glen S. Tarbox, IMROD:Sept 73:741
Application of New Methods of Structural Analysis for Safety Investigations of Concrete Dams, Eric B. Kollgaard, IMROD:Sept 73:498
Application of Slip Form Techniques to Dam Construction, J. F. Camellerie, ECCD:72:223
Arch Dam Design: State-of-the-Art, Merlin D. Copen and Loyd R. Scrivner, PO1:Jan 70:93:7021
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
Behavior of Compacted Soil in Tension, Abbanki V. Gopala Krishnayya, Zdenek Eisenstein and Norbert R. Morgenstern, GT9:Sept 74:1051:10828
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395:10146
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
Bureau of Reclamation Examination Program, Paul K. Bock, IMROD:Sept 73:50
Bureau of Reclamation Experiences With Concrete Admixtures, Elmo C. Higginson, RCCD:70:103
Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826
Citizen Participation: Here to Stay, Gene E. Willeke, CE:Jan 74:78
Closing Remarks, Ellis L. Armstrong, IMROD:Sept 73:901
Concrete Dam Construction Practices, Marcello Garavaglia, ECCD:72:467
Construction Cost and Design Considerations, John W. Leonard, RCCD:70:31
Construction Methods for the Soil-Cement Dam, Jerome M. Raphael, ECCD:72:217
Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295
Construction Systems for Concrete Dams, Albert D. Parker, ECCD:72:219
Control of Water Pollution During Dam Construction, Charles A. McCullough and Robert R. Nicklen, SA1:Feb 71:81:7927
Conversion of Maximum Rainfalls to Floods (Bureau of Reclamation Techniques), Frederick A. Bertle, IMROD:Sept 73:302
Conveying Concrete to Lower Dam Construction Costs, James L. Cope, ECCD:72:247
Coordinated Operation of Central Valley and State Water Projects, Welby R. Madsen and David G. Coleman, HY10:Oct 74:1399:10887
Corps of Engineers Dam Inspection Program, James A. Rhodes, IMROD:Sept 73:61
Cost Reduction Considerations for New Dam Projects, Bertram L. Perkins, ECCD:72:489
Cowlitz Salmon Hatchery, Quentin A. Edson and Ray J. Banys, PO1:Jan 71:61:7801
Critique of Designs and Specifications, Grant P. Gordon, ECCD:72:201
Current Program of Seismic Safety, Elmer W. Stroppini, IMROD:Sept 73:786
Current Programs for Seismic Safety -- Bureau of Reclamation, Richard W. Kramer, IMROD:Sept 73:795
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73:2195:10233
Dam Has Slipformed Upstream Face, Precast Downstream Face, V. M. Wallingford, CE:Nov 70:49
Dam Inspection Program of the Federal Power Commission, Desloge Brown, IMROD:Sept 73:23
Dam Safety-An Objective of Federal Licensing, F. Stewart Brown, PO1:Mar 67:67:5155
Dam Safety Laws and Dam Safety Inspections in South Africa, Johannes Gideon du Plessis, IMROD:Sept 73:241
Dam Safety Laws and Inspection Procedures in the United Kingdom, Angus A. Fulton, IMROD:Sept 73:180
Dam Safety Program in Pennsylvania, Clifford H. McConnell, IMROD:Sept 73:139
Dams and Ecology: Can They be Made Compatible?, Darrell J. Turner, CE:Sept 71:76
Design Concepts: Rapid Construction Of Arch Dams, Merlin D. Copen, RCCD:70:113
Design, Construction and Performance of Sesquile Dam, Tomas Shuk, Ricardo Cajiao and Jesus M. Sierra, SM1:Jan 70:177:6996
Design Improvements in Concrete Dams, J. Laginha Serafim, RCCD:70:371
Design of Carters Pumped Storage Project, Walter W. Burdin, PO3:June 70:383:7353
Design of Combined Service and Auxiliary Spillway at Auld Valley Reservoir, George F. Horowitz and Daumantas Namikas, HY10:Oct 70:1965:7615
Designs Tailored To Accelerate Concrete Dam Construction, Gurmukh S. Sarkaria, RCCD:70:161
Determination of Concrete Properties in Old Dams, Arthur G. Strassburger, IMROD:Sept 73:477
Determination of the Adequacy of Investigations for Evaluation of Dam Safety, William A. Wahler, IMROD:Sept 73:714
Earth and Earth-Rock Dams, John Lowe, III, PES:73:II-55
Earth and Earth-Rock Dams -- Reporter's Summary, James L. Sherard, PES:73:III-77

Earthquake Behavior of Reservoir-Dam Systems, Anil K. Chopra, EM6:Dec 68:1475:6297

Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105

Earthquake Wave Transmission Through Saturated Soil, Constantine N. Papadakis and Frank E. Richart, Jr., GT74:June 74:1

EBMUD's Programs for Inspection and Remedial Treatment of Old Dams, Walter F. Anton, IMROD:Sept 73:829

Economic Consideration for Construction, Joseph Pirtz, Jr., ECCD:72:507

Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:I237

Electricite de France Experiences and Practice in Safety Inspections of Old and New Dams, A. J. Taillebot, IMROD:Sept 73:229

Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151

Environmental Litigation: Lessons From the Courts, William K. Johnson, CE:Jan 72:55

Evaluating Foundation Seepage Problems, Ernest L. Dodson, IMROD:Sept 73:609

Evaluation of Effects of Ground Shaking on Concrete Gravity Dams, Anil K. Chopra, IMROD:Sept 73:771

Experience and Problems with Dams in Idaho, A. Kenneth Dunn, IMROD:Sept 73:100

Experience and Problems with Dams in Texas, John R. Clarke, IMROD:Sept 73:105

Finite-Element Analysis of Seepage Through Dams, W. D. Liam Finn, SM6:Nov 67:41:5552

Flow Through Rockfill Dam, Horace A. Johnson, SM2:Feb 71:329:7914

Forms for Concrete Dams, Art E. Freyre, ECCD:72:265

Foundation Seepage Control Options for Existing Dams, Lloyd R. Gebhart, IMROD:Sept 73:660

Foundations of Existing Dams -- Seepage Control, James E. Ley, IMROD:Sept 73:584

Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274

French Laws and Regulations Regarding Dam Supervision and Inspection, Michel A. Carlier, IMROD:Sept 73:198

General Report on Seismic Hazards and Problems, H. Bolton Seed, Julio E. Valera, Rudy J. Dietrich and Walter F. Anton, IMROD:Sept 73:745

Geometric and Frictional Effects on Sudden Releases, Shih-Tun Su and Albert H. Barnes, HY11:Nov 70:2185:7650

High Head Gates and Valves in the United States, Cortland C. Lanning, Chmn., HY10:Oct 73:1727:10107

Highlights — Foundation Exploration and Design — Locks and Dam No.26 (Replacement), Bruce H. Moore, EFFD:Mar 74:11

Horizontal Movements Related to Subsidence, Kenneth L. Lee and Chih-Kang P. Shen, SM1:Jan 69:139:6336

How To Keep Concrete Dams Competitive, W. Ter Minassian and Pierre Londe, RCCD:70:395

Influence of Rapid Construction On Concrete Dam Costs, Gurmukh S. Sarkaria, RCCD:70:39

Inspection, Maintenance and Remedial Treatment: San Francisco Water Department, Julian L. Bardoff and Paul T. Matsumura, IMROD:Sept 73:849

Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810

An Interesting Case of Stability in a Rock Fill Slope, Carlos M. Nieble and Paulo T. Cruz, 4PCSM:71:II167

Introduction — Foundations of Dams, Richard D. Harza, EFFD:Mar 74:1

Introductory Remarks, Richard E. Burnett, ECCD:72:347

Inverse Solution to Three-Dimensional Flows, Roland W. Jeppson, EM4:Aug 72:789:9110

Investigation by Geophysical and Instrumentation, Gordon W. Prescott, IMROD:Sept 73:558

Investigations into Control of Seepage, Walter G. Brusey, IMROD:Sept 73:616

Lateral Load Tests on Piles-Arkansas River Project, Mahmood M. Alizadeh and Melvin T. Davisson, SM5:Sept 70:1583:7510

Load Transfer in Earth and Rockfill Dams, L. Radley Squier, SM1:Jan 70:213:7004

Maintenance and Repairs of Ancillary Equipment, Dale H. Doble, IMROD:Sept 73:451

Mechanical Equipment Problems on Old Dams, Fred Engstrom, IMROD:Sept 73:440

Model Law to Improve Dam Safety, Alfred R. Golze, CE:Mar 71:53

Model Study of Laterally Loaded Piles, Melvin T. Davisson and James R. Salley, SM5:Sept 70:1605:7511

Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208

Mossyrock Project River-Diversion and Care of Fish, Earl J. Beck, PO1:Jan 71:1:7800

Movements in Dams Due to Reservoir Filling, Esmail S. Nobari and James M. Duncan, PES:72:I-797

Multilevel Outlet Works at Four Existing Reservoirs, Garry H. Austin, Donald A. Gray and Donald G. Swain, HY6:Nov 69:1793:6877

National Program for Inspection of Dams, John W. Morris, IMROD:Sept 73:14

New Dam Construction Concept, Otto R. Lunn, ECCD:72:307

New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956

New Role of Engineers as Trained Divers, Thomas E. Morris, IRS:Sept 72:257

Norwood Dam Foundation Stabilization: A Case History, John C. Matte, IMROD:Sept 73:697

Numerical Analysis of Free Surface Seepage Problems, Peter W. France, Chandrakant J. Parekh, John C. Peters and Cedric Taylor, IR1:Mar 71:165:7959

Opening Remarks, Jack W. Hilf, Chmn., ECCD:72:1

Opening Remarks, E. Montford Fucik, ECCD:72:395

Opening Remarks, Ellis L. Armstrong, IMROD:Sept 73:1

Oroville Dam and Edward Hyatt Powerplant, William R. Gianelli, CE:June 69:68

Owner-Engineer-Contractor Economic Considerations in Dam Construction, Gerald T. McCarthy, ECCD:72:493

Owner-Engineer-Contractor Economic Considerations in Dam Construction, John S. Tamagni, ECCD:72:497

Owner-Engineer-Contractor Economic Considerations in Dam Construction, George L. Beard, ECCD:72:503

Owner's Comments, Edward J. Drobnack, IMROD:Sept 73:523

An Owner's Program for the Investigation and Analysis of Its Dams, Richard B. Roche, Jr., IMROD:Sept 73:516

Penstock Construction at Grand Coulee Dam, Wayne H. John, CE:Dec 73:52

People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37

Pile Tests-Arkansas River Project, Charles I. Mansur and Alfred H. Hunter, SM5:Sept 70:1545:7509

Plant Layout for Economical Concrete Dam Construction, Clarence L. Gallimore, ECCD:72:209

Positive Points on Electric Power, George R. Higgins, PP1:Jan 72:65:8666

Potentially Active Faults in Dam Foundations, James L. Sherard, IMROD:Sept 73:768

Preplaced Aggregate Concrete In Dam Construction, John C. King, RCCD:70:203

Presplitting and Rockbolts Cut Costs at Stockton Dam, Charles R. Golder, CE:Jan 70:44

Probabilities of Rare Floods, Leo R. Beard, IMROD:Sept 73:314

Problems Encountered in Construction of Dam Foundations, R. W. Bock, W. G. Harber and M. Arai, EFFD:Mar 74:87

Program for Investigation and Analysis of Dams -- Los Angeles County Flood Control District, Richard B. Roche, Jr., IMROD:Sept 73:804

Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297

Purpose or Need for Grouting in the Treatment of Foundations, Judson P. Elston, IMROD:Sept 73:563

Rapid Construction - Design Considerations, Alfred L. Parme, RCCD:70:151

Reaction to USCOLD's Proposed Law for Dam Safety, Alfred R. Golze, IMROD:Sept 73:282

Reconnaissance for Dam Sites in Remote Areas, Vernon E. Swanson, SU1:Apr 70:97:7244

Reevaluating Spillway Adequacy of Existing Dams, Russell W. Revell, Chmn., HY2:Feb 73:337:9571

Reevaluating Spillway Adequacy of Existing Dams, Bob J. Buehler, IMROD:Sept 73:320

Reevaluation and Reconstruction of California Dams, Clifford J. Cortright, PO1:Jan 70:55:7008

Register of Selective Withdrawal Works in United States, Task Committee on Outlet Works, Committee on Hydraulic Structures, Ronald E. Nece, Chmn., HY9:Sept 70:1841:7533

Rehabilitation of an Old Concrete Dam, Stanley A. de Sousa, IMROD:Sept 74:493

Rehabilitation of Dams: Retrospect and Prospect, Gilbert G. Stamm, IMROD:Sept 73:4

Replacement-Lock and Dam No. 26: Lock Capacity Procedure and Scope, Anson G. Eickhorst and DuWayne A. Koch, WW1:Feb 70:15:7094

Replacement-Lock and Dam No. 26: Projecting Waterborne Commerce-Inland Navigation, DuWayne A. Koch, WW1:Feb 70:9:7100

Report of Workshop B's First Session, James I. Barnes, ECCD:72:329

Reverse and Direct Reservoir Routing Method Sets Highway Grade, Constantine Voutyras, CE:Oct 69:56

Review of Spillway Adequacy at Existing Bureau of Reclamation Dams, Garry H. Austin, IMROD:Sept 73:382

A Review of TVA's Problems and Treatment of Foundations of Existing Dams, Lloyd W. Lundin, IMROD:Sept 73:641

Safety Appraisal of Old Dams: An Updated Perspective, Gurmukh S. Sarkaria, IMROD:Sept 73:405

Safety Inspection Of Hydro Projects-FPC Order 315, Arthur Martin, Jr., PO2:Mar 71:449:7958

Safety of Dams - Bureau of Reclamation, Donald A. Gray, HY2:Feb 74:267:10354

Safety of Dams -- Hydrologic and Hydraulic Aspects, Vernon K. Hagen, IMROD:Sept 73:337

Seacoast Dam Separates Saltwater and Fresh, Chris C. Ziogas, CE:Feb 74:53

Search for Economical Construction of Concrete Dams Based on Results of Observation, J. Laginha Serafim, M. Guerreiro and C. Gonzalez Florez, ECCD:72:311

Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334

Seepage Through Triangular Dam Without Tailwater, Michael A. Collins, TN: SM9:Sept 71:1355:8391

Seismic Failures of Chilean Tailings Dams, Ricardo Dobry and Leonardo Alvarez, SM6:Nov 67:237:5582

Seismic Safety Study of Henshaw Dam, Charles G. Wolfe, IMROD:Sept 73:871

Selecting Spillway Floods for Existing Structures (Bureau of Reclamation Application), Frederick A. Bertle, IMROD:Sept 73:328

Selecting the Appropriate Design Flood, Gordon R. Williams, IMROD:Sept 73:348

Silver Lake Reservoir Reconstruction, LeVal Lund, IMROD:Sept 73:814

Social Concerns—Nuclear Offshore River Basin Construction, Harlan W. Fair, CO1:Mar 74:51:10417

Some Procedures for Determining Extreme Precipitation Criteria, John T. Riedel, IMROD:Sept 73:284

Some Seismic Studies of Old Dams, Jerry A. Jedlicka, IMROD:Sept 73:840

Special Cements, George Verbeck, RCCD:70:51

Stability of Existing Dam Foundations, Jacob F. Redlinger, IMROD:Sept 73:677

Stability of Old Dams as Related to Their Foundations, Karl V. Taylor, IMROD:Sept 73:688

States' Experience and Their Problems, Robert B. Jansen, IMROD:Sept 73:77

States' Experiences in Dam Safety Regulations, Clifford J. Cortright, IMROD:Sept 73:86

Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562

Strengthening of John Hollis Bankhead Dam, F. G. Thompson, CE:Dec 69:75

Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653:9016

Stresses in an Earth Dam due to Contruction and Reservoir Filling, Julio E. Valera and Jian C. Chen, GT74:June 74:33

Stress Studies of Three Old Arch Dams, Gurmukh S. Sarkaria, IMROD:Sept 73:418

Summaries of Sessions, William N. Holway, IMROD:Sept 73:273

Summary of Presentations and Discussions on Materials Deterioration and Ancillary Equipment, Eric B. Kollgaard and Joseph D. Walters, IMROD:Sept 73:528

Summary of Session V -- Foreign Practices in Concrete Dam Construction, James E. Bennett, ECCD:72:477

Summary of the Conference, Arthur J. Fox, Jr., ECCD:72:521

Summary of the Session on Federal Inspection Activities, Samuel H. Miles, IMROD:Sept 73:67

Summary of the Session on International Experiences, Jack C. Jones, IMROD:Sept 73:262

Summary of Workshop on Foundations, Melvin A. Jabara and Paul K. Bock, IMROD:Sept 73:541

Supervision of Dams at the Swedish State Power Board, Karl Arthur Scherman and S. Nylander, IMROD:Sept 73:157

Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588

Three-Dimensional Finite Element Analyses of Dams, Guy Lefebvre, James M. Duncan and Edward L. Wilson, SM7:July 73:495:9857

Treatment of High Embankment Dam Foundations, Fred C. Walker and R. W. Bock, SM10:Oct 72:1099:9272

Trends in Design and Construction Practice for Concrete Dams, Jean M. Muller, ECCD:72:397

TVA Dam Inspection Activities, Lloyd W. Lundin, IMROD:Sept 74:39

The Use of Prestressing in Dams in Tasmania, Henry H. Thomas, ECCD:72:287

Wells Dam: Powerplant and Spillway Combined, James G. Patrick, Harris H. Burke, Robert T. Loder and Michael W. Erho, CE:Oct 70:61

When is Foundation Seepage Unsafe?, William A. Clevenger, IMROD:Sept 73:570

World's Highest and Largest Dams, T. W. Mermel, CE:July 70:73

Dams (Arch)

An Alternative Interpretation of the Vaiont Slide, Kwan Y. Lo, C. F. Lee and P. Gelinas, RM13:72:595

An Approach to Analysis of Arch Dams in Wide Valleys, Janusz R. Rydzewski and Richard W. Humphries, PO1:May 73:165:9710

Arch Dam Design: State-of-the-Art, Merlin D. Copen and Loyd R. Scrivner, PO1:Jan 70:93:7021

Arch Dam Layout Facilitated by Use of Computer, Alfred L. Parme, PO2:Oct 67:69:5523

Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243

Causes of the Failure of the Malpasset Dam, Michel A. Carlier, EFFD:Mar 74:5

Complete Adjustment Method for Analyzing Arch Dams, J. Laginha Serafim, J. Caldeira Rodrigues, Alferdo Portelo and Mario J. Milho, ST8:Aug 70: 1711:7492

Concrete Placement, Split Level-No Vertical Joints, Otto R. Lum, RCCD:70:213

Critique of Designs and Specifications, Grant P. Gordon, ECCD:72:201

Design Concepts: Rapid Construction Of Arch Dams, Merlin D. Copen, RCCD:70:113

Design of Boundary Arch Dam, Jaroslav Pospisil and Michael D. Hayes, PO1:Jan 70:73:7012

Design of Mossyrock Arch Dam, Roman P. Wengler and William Y. J. Shieh, PO1:Jan 71:25:7805

Determination of In Situ Stresses in Concrete Dams, Merlin D. Copen and George Brown Wallace, PO2: Mar 71:455:7964

Earthquake Hydrodynamic Forces on Arch Dams, Parambakatoor R. Perumalswami and Lakshmidhar Kar, EM5:Oct 73:965:10060

Earthquake Response of Arch Dams, Umesh Chandra Tahbildar and Hugh Tottenham, ST11: Nov 70:2321:7681

Effect Of Safety Factor On Cost Of Arch Dams, Roman P. Wengler, RCCD:70:249

Investigation of Deteriorated Concrete Arch Dam, David Pirtz, Arthur G. Strassburger and Richard C. Mielenz, PO1:Jan 70:23:6997

Modernization of Dams on Salt River, J. George Thon, John W. O'Hara and Clarence H. Whalin, PO1:Jan 70:157:7039

Preliminary Design and Construction Concepts for Auburn Dam, James Legas, ECCD:72:181

Preliminary Design and Construction Concepts for Crystal Dam, James Legas, ECCD:72:191

Rapid Construction - Design Considerations, Alfred L. Parme, RCCD:70:151

Rock Mechanics Studies for Mossyrocky Arch Dam, David E. Kleiner and Richard C. Acker, PO1:Jan 71:11:7795

Stress Studies of Three Old Arch Dams, Gurmukh S. Sarkaria, IMROD:Sept 73:418

Vogt Boundary for Finite Element Arch Dam Analysis, Gilbert A. Hartley, Gregory M. McNeice and Walter Stensch, ST1:Jan 74:51:10269

Dams (Buttress)

Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265

Dams (Concrete)

Additions To Chief Joseph Dam Power Project, A. Lee Warbington, PO2:Mar 71:493:7970

Admixtures, Bryant Mather, RCCD:70:75

Aesthetic Factors in Planning and Design of Libby Dam, Sydney Steinborn, PO1:Jan 70:39:6999

Air Conveyed Concrete -- A Unique Cost-Saving System for Mixing and Placing Concrete, Reg A. Anderson and Fred N. Mueller, ECCD:72:273

Analyzing and Strengthening Concrete Dams on Deficient Foundation, Glen S. Tarbox, IMROD: Sept 73:741

Application of New Methods of Structural Analysis for Safety Investigations of Concrete Dams, Eric B. Kollgaard, IMROD:Sept 73:498

Arch Dam Design: State-of-the-Art, Merlin D. Copen and Loyd R. Scrivner, PO1:Jan 70:93:7021

Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243

Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015

Blasting Mass-Concrete at Grand Coulee Dam, J. R. Granger, CE:Aug 71:28

Bureau of Reclamation Experiences With Concrete Admixtures, Elmo C. Higginson, RCCD:70:103

Concrete Dam Construction Practices, Marcello Garavaglia, ECCD:72:467

Concrete Dam Construction Using Earth Compaction Methods, Robert Williams Cannon, ECCD:72:143

Concrete Dam Design and Construction Improvements, Ellis L. Armstrong, ECCD:72:3

Concrete Volume Change for Dworshak Dam, Donald L. Houghton, PO2:Oct 69:153:6825

Construction Cost and Design Considerations, John W. Leonard, RCCD:70:31

Construction Innovations at Dworshak Dam, Edward E. Hershberger, CO3:Sept 74:303:10793

Construction Systems for Concrete Dams, Albert D. Parker, ECCD:72:219

Cost Reduction Considerations for New Dam Projects, Bertram L. Perkins, ECCD:72:489

Critique of Designs and Specifications, Grant P. Gordon, ECCD:72:201

Dam Has Slipformed Upstream Face, Precast Downstream Face, V. M. Wallingford, CE:Nov 70: 49

Design Concepts: Rapid Construction Of Arch Dams, Merlin D. Copen, RCCD:70:113

Design Improvements in Concrete Dams, J. Laginha Serafim, RCCD:70:371

Designs Tailored To Accelerate Concrete Dam Construction, Gurmukh S. Sarkaria, RCCD:70:161

Determination of Concrete Properties in Old Dams, Arthur G. Strassburger, IMROD:Sept 73:477

Determination of In Situ Stresses in Concrete Dams, Merlin D. Copen and George Brown Wallace, PO2: Mar 71:455:7964

Dworshak Dam: Advanced Systems for Producing Aggregates and Placing Concrete, G. M. Shupe, CE:Mar 69:35

Dworshak Dam Underground Crushing Chamber, Charles O. Faris, URC:72:147

Earthquake Response of Concrete Gravity Dams, Anil K. Chopra, EM4:Aug 70:443:7485

Economical Construction of a Concrete Gravity Dam, Lewis H. Tuthill, ECCD:72:65

Economic Consideration for Construction, Joseph Pirtz, Jr., ECCD:72:507

Evaluation of Effects of Ground Shaking on Concrete Gravity Dams, Anil K. Chopra, IMROD:Sept 73: 771

Forms for Concrete Dams, Art E. Freyre, ECCD:72: 265

Gap-Graded Aggregates for Mass Concrete, Shu-t'ien Li, ECCD:72:101

Guri Hydroelectric Project Designed for Staged Development, Hans Hasen and P. Palacios H., CE: Dec 71:55

How To Keep Concrete Dams Competitive, W. Ter Minassian and Pierre Londe, RCCD:70:395

Hydrodynamic Effects in Earthquake Response of Gravity Dams, P. Chakrabarti and Anil K. Chopra, ST6:June 74:1211:10616

Influence of Rapid Construction On Concrete Dam Costs, Gurmukh S. Sarkaria, RCCD:70:39

Introductory Remarks, Merlin D. Copen, ECCD:72: 169

Introductory Remarks, Richard E. Burnett, ECCD: 72:347

Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208

New Dam Construction Concept, Otto R. Lunn, ECCD:72:307

Noise Control at Construction Sites, Herbert G. Poertner, ECCD:72:375

Notes on The Construction Of The Alpe Gera Dam, Guilio Gentile, RCCD:70:349

Opening Remarks, E. Montford Fucik, ECCD:72:395

Owner-Engineer-Contractor Economic Considerations in Dam Construction, Gerald T. McCarthy, ECCD:72:493

Owner-Engineer-Contractor Economic Considerations in Dam Construction, John S. Tamagni, ECCD:72:497

Owner-Engineer-Contractor Economic Considerations in Dam Construction, George L. Beard, ECCD:72:503

Plant Layout for Economical Concrete Dam Construction, Clarence L. Gallimore, ECCD:72:209

Preliminary Design and Construction Concepts for Trumbull Lake Dam, Joseph A. McElroy, ECCD: 72:171

Preliminary Design and Construction Concepts for Auburn Dam, James Legas, ECCD:72:181

Preliminary Design and Construction Concepts for Crystal Dam, James Legas, ECCD:72:191

Rapid Construction - Design Considerations, Alfred L. Parme, RCCD:70:151
Rehabilitation of an Old Concrete Dam, Stanley A. de Sousa, IMROD:Sept 74:493
Rehabilitation of Dams: Retrospect and Prospect, Gilbert G. Stamm, IMROD:Sept 73:4
Report of Workshop B's First Session, James I. Barnes, ECCD:72:329
Report of Workshop B's Second Meeting -- Construction Specifications, Equipment, and Systems for Concrete Dams, Jack W. Ward, ECCD:72:337
Requirements For Efficient Concrete Placement, Edward E. Hershberger, RCCD:70:15
Residential Community Features Novel Dam and Sewer, Robert B. Balter, CE:May 73:46
Seacoast Dam Separates Saltwater and Fresh, Chris C. Ziogas, CE:Feb 74:53
Search for Economical Construction of Concrete Dams Based on Results of Observation, J. Laginha Serafim, M. Guerreiro and C. Gonzalez Florez, ECCD:72:311
Session III-Control of Pollution in Concrete Dam Construction, Dwight L. Glasscock, ECCD:72:391
Some Seismic Studies of Old Dams, Jerry A. Jedlicka, IMROD:Sept 73:840
Special Cements, George Verbeck, RCCD:70:51
Strengthening of John Hollis Bankhead Dam, F. G. Thompson, CE:Dec 69:75
Stress Studies of Three Old Arch Dams, Gurmukh S. Sarkaria, IMROD:Sept 73:418
Summary of Session I -- Recent Developments in Design and Construction of Concrete Dams, Charles F. Corns, ECCD:72:25
Summary of Session V -- Foreign Practices in Concrete Dam Construction, James E. Bennett, ECCD:72:477
Summary of the Conference, Arthur J. Fox, Jr., ECCD:72:521
Thermoviscoelasticity of Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM3:June 74:575:10621
Trends in Design and Construction Practice for Concrete Dams, Jean M. Muller, ECCD:72:397
TVA Dam Inspection Activities, Lloyd W. Lundin, IMROD:Sept 74:39
The Use of Prestressing in Dams in Tasmania, Henry H. Thomas, ECCD:72:287
Vogt Boundary for Finite Element Arch Dam Analysis, Gilbert A. Hartley, Gregory M. McNeice and Walter Stensch, ST1:Jan 74:51:10269
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72:333:9259
Workshop A -- Advances in Concrete Technology, Samuel D. Burks, ECCD:72:153
World's Highest and Largest Dams, T. W. Mermel, CE:July 70:73
The 1970's: Civil Engineering Forecast-Part I, Kneeland A. Godfrey, Jr., CE:Apr 70:68

Dams (Earth)

Analysis of Sheffield Dam Failure, H. Bolton Seed, Kenneth L. Lee and Izzat M. Idriss, SM6:Nov 69:1453:6906
An Analysis of the Cracking at Duncan Dam, Zdenek Eisenstein, A. V.G. Krishnayya and Norbert R. Morgenstern, PES:72:I-765
At Glen Elder Dam: Improved Soil-Cement Placement Procedure Used, Edward W. Gray, Jr., CE:May 69:36
The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551
Behavior of Compacted Soil in Tension, Abbanki V. Gopala Krishnayya, Zdenek Eisenstein and Norbert R. Morgenstern, GT9:Sept 74:1051:10828
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826
Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939:10170
Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
Design, Construction and Performance of Sesquile Dam, Tomas Shuk, Ricardo Cajiao and Jesus M. Sierra, SM1:Jan 70:177:6996
Development of Wells Hydroelectric Project, James G. Patrick, PO2:Mar 71:267:7967
Diversion at Portage Mountain Project, Harold K. Pratt, PO3:June 70:349:7346
Dynamic LoadingP, Elio E. D'Appolonia, PISST:71:141
Dynamic Loadings, Elio E. D'Appolonia, SM1:Jan 70:49:7010
Earth and Earth-Rock Dams, John Lowe, III, PES:73:II-55
Earth and Earth-Rock Dams -- Reporter's Summary, James L. Sherard, PES:73:III-77
Earth Dam Built Without Dewatering, Keith A. Henry, CE:Jan 71:37
Earthquake Wave Transmission Through Saturated Soil, Constantine N. Papadakis and Frank E. Richart, Jr., GT74:June 74:1
Effectiveness of Cut-offs under Three Earth Dams, Milton Vargas, 4PCSM:71:II257
Embankment Pore Pressures During Construction, Walter C. Sherman, Jr. and Gerald W. Clough, SM2:Mar 68:527:5867
Engineering Properties of Mine Tailings, Howard C. Pettibone and C. Daniel Kealy, SM9:Sept 71:1207:8382
Environmental Protection Measures at Martis Creek Lake, California, Joseph C. Sciandrone, CE:Mar 74:80
The Failure of Laguna Dam, Raul J. Marsal and Wolfang Pohlenz, PES:72:I-489
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
Hills Creek Dam Seepage Correction, John D. Jenkins and Duane E. Bankofier, PES:72:I-723
Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653
In Situ Strength of Rolled and Hydraulic Fill, Geoffrey E. Blight, SM3:May 70:881:7273
The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
Internal Piping and Shear Deformation. Victor Braunig Dam -- San Antonio, Texas, Ralph F. Reuss and John W. Schattenberg, PES:72:I-627
Investigation of Earth Dam Foundations, John P. Bara, EFSE:Aug 74:381
Investigations into Control of Seepage, Walter G. Brusey, IMROD:Sept 73:616
The Johnstown Flood Revisited, Alfred R. Pagan, CE:Aug 74:60
Keynote Address: The Performance of Earth Structures and Foundations, T. William Lambe, 4PCSM:72:III7
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867
Model and Prototype Tests of Buoyant Spillway Gates, Arthur G Strassburger and James F Sias, PO2:Oct 69:335:6863
Oroville Dam and Edward Hyatt Powerplant, William R. Gianelli, CE:June 69:68
An Owner's Program for the Investigation and Analysis of Its Dams, Richard B. Roche, Jr., IMROD:Sept 73:516
Performance Instrumentation Installed in Oroville Dam, John E. O'Rourke, GT2:Feb 74:157:10363
Performance of Briones Dam, Walter F. Anton and David J. Dayton, PES:72:I-853

Performance Of Nonhomogeneous Clay Core, Remy L.A. de Jong, TN: SM8:Aug 72:855:9085
Performance Record of Walter F. George Lock and Dam, Robert L. Crisp, Jr., PES:72:I-691
Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589
Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045
Portage Mountain Intake Structure and Facilities, H. Edward Howe, PO3:June 70:331:7342
Problems Encountered in Construction of Dam Foundations, R. W. Bock, W. G. Harber and M. Arai, EFFD:Mar 74:87
Rehabilitation of Dams: Retrospect and Prospect, Gilbert G. Stamm, IMROD:Sept 73:4
Residential Community Features Novel Dam and Sewer, Robert B. Balter, CE:May 73:46
Responses of Earth Dams to Traveling Seismic Waves, Mostafa Dibaj and Joseph Penzien, SM2: Mar 69:541:6453
Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
Seepage Control in the Rio Jaguari Dam and Dike, Lincoln de A. Queiroz, Hamilton G. de Oliveira, Ruy Taiji Mori and Francisco Nazario, 4PCSM:71: II293
Seepage Through Dams with Horizontal Toe Drain, Mohammad S. Moayeri, SM5:May 72:461:8878
Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10: Oct 73:849:10053
Seismic Effects on Earth Dam from Explosion, Lyman W. Heller, TN: SM11:Nov 73:1038:10/48
Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, GT5:May 74:523:10553
Some Construction Aspects of Tarbela Dam, Morgan H. Thompson, CO3:Sept 74:247:10799
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653: 9016
Stresses in an Earth Dam due to Contruction and Reservoir Filling, Julio E. Valera and Jian C. Chen, GT74:June 74:33
Stress-Strain Analysis of El Infiernillo Dam, Jesus Alberro A., PES:72:I-837
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
Tjipanundjang Dam in West Java, Indonesia, Laurence D. Wesley, GT5:May 74:503:10543
Tocks Island Project Spillway Rock Mechanics Studies, A. Depman, K. Dodds and D. Parrillo, RM13:72:443
Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466
Treatment of High Embankment Dam Foundations, Fred C. Walker and R. W. Bock, SM10:Oct 72: 1099:9272
TVA Dam Inspection Activities, Lloyd W. Lundin, IMROD:Sept 74:39
Value Engineering--A Logical Technique for Earth Dam Construction, Chung Y. Li, CE:June 69:83
World's Highest and Largest Dams, T. W. Mermel, CE:July 70:73

Dams (Embankment)

Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
An Approach to Analysis of Arch Dams in Wide Valleys, Janusz R. Rydzewski and Richard W. Humphries, PO1:May 73:165:9710
Earth and Earth-Rock Dams, John Lowe, III, PES: 73:II-55
Earth and Earth-Rock Dams -- Reporter's Summary, James L. Sherard, PES:73:III-77
EBMUD's Programs for Inspection and Remedial Treatment of Old Dams, Walter F. Anton, IMROD:Sept 73:829
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
Program for Investigation and Analysis of Dams -- Los Angeles County Flood Control District, Richard B. Roche, Jr., IMROD:Sept 73:804
Seismic Safety Study of Henshaw Dam, Charles G. Wolfe, IMROD:Sept 73:871
Silver Lake Reservoir Reconstruction, LeVal Lund, IMROD:Sept 73:814
Some Seismic Studies of Old Dams, Jerry A. Jedlicka, IMROD:Sept 73:840
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381

Dams (Gravity)

Aesthetic Factors in Planning and Design of Libby Dam, Sydney Steinborn, PO1:Jan 70:39:6999
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
Concrete Dams Built Without Contraction Joints, Roy W. Carlson, RCCD:70:187
Concrete Volume Change for Dworshak Dam, Donald L. Houghton, PO2:Oct 69:153:6825
Construction Innovations at Dworshak Dam, Edward E. Hershberger, CO3:Sept 74:303:10793
Dam Has Slipformed Upstream Face, Precast Downstream Face, V. M. Wallingford, CE:Nov 70: 49
Earthquake Response of Concrete Gravity Dams, Anil K. Chopra, EM4:Aug 70:443:7485
Economical Construction of a Concrete Gravity Dam, Lewis H. Tuthill, ECCD:72:65
Evaluation of Effects of Ground Shaking on Concrete Gravity Dams, Anil K. Chopra, IMROD:Sept 73: 771
Guri Hydroelectric Project Designed for Staged Development, Hans Hasen and P. Palacios H., CE: Dec 71:55
Hydrodynamic Effects in Earthquake Response of Gravity Dams, P. Chakrabarti and Anil K. Chopra, ST6:June 74:1211:10616
Notes on The Construction Of The Alpe Gera Dam, Guilio Gentile, RCCD:70:349
The Optimum Gravity Dam, Jerome M. Raphael, RCCD:70:221
Preliminary Design and Construction Concepts for Trumbull Lake Dam, Joseph A. McElroy, ECCD: 72:171
Rehabilitation of an Old Concrete Dam, Stanley A. de Sousa, IMROD:Sept 74:493
Underground Chamber Crushes Rock for Dworshak Dam, Charles O. Faris, CE:June 71:75
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259
What, Why and Where Of The Design And Construction Of Gravity Dams, William R. Waugh, RCCD:70:173

Dams (Movable)

Mechanical Structures for Farm Irrigation, Allan S. Humpherys, IR4:Dec 69:463:6944
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114

Dams (Rockfill)

Aguada Blanca Rockfill Dam with Metal Facing, Piero Sembenelli and Marco Fagiolo, GT1:Jan 74: 31:10270
Aswan High Dam: Rockfill Built Under Water, Taher Abu-Wafa and Aziz H. Labib, CE:Aug 71:64
Bed Scour at End-Dump Channel Constrictions, Bishnu Prasad Das, HY12:Dec 73:2273:10228
Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826
Constructional Deformations in Rockfill Dam, Arthur D. Penman and Andrew Charles, SM2:Feb 73:139: 9560
Earth and Earth-Rock Dams, John Lowe, III, PES: 73:II-55

Earth and Earth-Rock Dams -- Reporter's Summary, James L. Sherard, PES:73:III-77
Eight Years of Observations at El Infiernillo Dam, Raul J. Marsal and Luis Ramirez de Arellano, PES: 72:I-703
Field Solutions for Turbulent Seepage Flow, Alan K. Parkin, SM1:Jan 71:209:7794
Flow Through Rockfill Dam, Horace A. Johnson, SM2:Feb 71:329:7914
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10: Oct 72:995:9303
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
Foundation of Cerro de Oro Dam, Mexico, Raul J. Marsal and Aurelio Benassini, EFFD:Mar 74:249
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
In-situ Shear Test for Rock Fills, Surendra P. Jain and Ramesh C. Gupta, GT9:Sept 74:1031:10823
Load Transfer in Earth and Rockfill Dams, L. Radley Squier, SM1:Jan 70:213:7004
Some Construction Aspects of Tarbela Dam, Morgan H. Thompson, CO3:Sept 74:247:10799
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
Stone Asphalt Cores Waterproof French Dams, Victorien Lelu, CE:Apr 72:70
Stress-Strain Relationships for Particulate Materials at Equilibrium, Peter W. Rowe, PES:73:III-327
Tests on Cohesionless Materials for Rockfill Dams, Emanuele Fumagalli, SM1:Jan 69:313:6353
Theories of Closure of Rockfill Dams, John A. Sandover, CO2:Nov 71:313:8542

Damsites
Reconnaissance for Dam Sites in Remote Areas, Vernon E. Swanson, SU1:Apr 70:97:7244

Dam Stability
Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127
Closing Remarks, Ellis L. Armstrong, IMROD:Sept 73:901
Dam Inspection Program of the Federal Power Commission, Desloge Brown, IMROD:Sept 73:23
Dam Safety Program in Pennsylvania, Clifford H. McConnell, IMROD:Sept 73:139
Determination of Concrete Properties in Old Dams, Arthur G. Strassburger, IMROD:Sept 73:477
Determination of the Adequacy of Investigations for Evaluation of Dam Safety, William A. Wahler, IMROD:Sept 73:714
Evaluating Foundation Seepage Problems, Ernest L. Dodson, IMROD:Sept 73:609
Experience and Problems with Dams in Idaho, A. Kenneth Dunn, IMROD:Sept 73:100
Experience and Problems with Dams in Texas, John R. Clarke, IMROD:Sept 73:105
Foundation Seepage Control Options for Existing Dams, Lloyd R. Gebhart, IMROD:Sept 73:660
Foundations of Existing Dams -- Seepage Control, James E. Ley, IMROD:Sept 73:584
Inspection, Maintenance and Remedial Treatment: San Francisco Water Department, Julian L. Bardoff and Paul T. Matsumura, IMROD:Sept 73:849
Investigation by Geophysical and Instrumentation, Gordon W. Prescott, IMROD:Sept 73:558
National Program for Inspection of Dams, John W. Morris, IMROD:Sept 73:14
Owner's Comments, Edward J. Drobnack, IMROD: Sept 73:523
Precise Dam Surveys—Los Angeles County Flood Control District, Don F. Keene, SU2:Nov 74:99: 10925
Program for Investigation and Analysis of Dams -- Los Angeles County Flood Control District, Richard B. Roche, Jr., IMROD:Sept 73:804
A Review of TVA's Problems and Treatment of Foundations of Existing Dams, Lloyd W. Lundin, IMROD:Sept 73:641
Safety Appraisal of Old Dams: An Updated Perspective, Gurmukh S. Sarkaria, IMROD:Sept 73:405
Safety of Dams -- Hydrologic and Hydraulic Aspects, Vernon K. Hagen, IMROD:Sept 73:337
Selecting Spillway Floods for Existing Structures (Bureau of Reclamation Application), Frederick A. Bertle, IMROD:Sept 73:328
Selecting the Appropriate Design Flood, Gordon R. Williams, IMROD:Sept 73:348
Some Seismic Studies of Old Dams, Jerry A. Jedlicka, IMROD:Sept 73:840
Stability of Existing Dam Foundations, Jacob F. Redlinger, IMROD:Sept 73:677
Stability of Old Dams as Related to Their Foundations, Karl V. Taylor, IMROD:Sept 73:688
States' Experiences in Dam Safety Regulations, Clifford J. Cortright, IMROD:Sept 73:86
Summary of Presentations and Discussions on Materials Deterioration and Ancillary Equipment, Eric B. Kollgaard and Joseph D. Walters, IMROD: Sept 73:528

Darcys Law
Simulation of Post-Irrigation Moisture Movement, Fred J. Molz, IR4:Dec 72:523:9419
Transformation of Moody Diagram, Krishna C. Asthana, HY6:June 74:797:10624
Variational Approach to Non-Darcy Flow, John A. McCorquodale, HY11:Nov 70:2265:7694

Data
Environmental Impact Statements Discussed, CE:Feb 73:61
Using Experimental Models to Guide Data Gathering, Charles F. Meyer, HY10:Oct 71:1681: 8449

Data Acquisition
Computer Control and Data Acquisition of a Tidal Model, E. R. Funke, CE13:72:III-2387
Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165

Data Collections
Requirements of Construction Company Cost System, Paul Teicholz, CO3:Sept 74:255:10786

Data Collection Systems
Data Collection Techniques - Time-Lapse Photography, Paul W. Miller and Walter H. Kraft, BP73:Dec 73:221
Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916

Data Processing
Automatic Generation of Finite Element Matrices, Rene W. Luft, Jose M. Roesset and Jerome J. Connor, EC5:70:573
Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39: 10015
Modern Concept of Disinfection, Shih L. Chang, SA5:Oct 71:689:8441

Data Reduction
Close-Range Photogrammetric Data Reduction Scheme, Dennis E. Moellman and Houssam M. Karara, SU2:Sept 68:211:6106
Remote Sensing in the Study of Coastal Processes, Orville T. Magoon and Douglas M. Pirie, CE13:72: III-2027

Data Retrieval
Data Retrieval on Thermal Pollution, Fred A. Limpert, CE:Nov 70:53

Data Systems
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, Kenneth F. Reinschmidt, TB:73:C-AC31-159

Decision Criteria for Using Stochastic Hydrology, George K. Young, Jr., Gerald T. Orlob and Larry A. Roesner, HY4:Apr 70:911:7209
Estimation Theory Applications to Design of Water Quality Monitoring Systems, Stephen F. Moore, HY5:May 73:815:9755
Experiences with Interactive Computing System, LeRoy T. Boyer and John C. Casson, ST1:Jan 71:289:7853
Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
Integrated Information Systems for Utilities, Brian W. Mar, UP2:Sept 73:123:9984
Interpretation of Multispectral Remote Sensor Data, Albert N. Williamson, SU2:Nov 74:143:10948
Labor Cost Control, Paul Teicholz, CO4:Dec 74:561:11020
Land-use Intensity, the LUI Scale, and Zoning, Byron R. Hanke, UP4:Dec 67:19:5675
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72:769:9355
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998
New Approach to Hydrologic Data Acquisition, Edward J. Langham, HY12:Dec 71:1965:8578
Planning and Control of Combined Sewerage Systems, William R. Giessner, Robert T. Cockburn, Frank H. Moss, Jr. and Mark E. Noonan, EE4:Aug 74:1013:10744
Remote Terminal Cost Estimating, Robert C. Volkman and LeRoy T. Boyer, CO1:Mar 72:1:8756
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289
Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969
Systems Analysis and Solid Waste Planning, Robert M. Clark and James I. Gillean, EE1:Feb 74:7:10316

Deaeration
Spillway Redesign Abates Gas Supersaturation in the Columbia River, Hugh A. Smith, Jr., CE:Sept 74:70

Debris
Debris Accumulation in Ancient and Modern Cities, Charles G. Gunnerson, EE3:June 73:229:9771
Field Test of Debris Fill Over Soft Soil, Henry T. Taylor and Albert L. Buchignani, PES:72:I-395
Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425

Decay
Decay of Mass Oscillations in Rectangular Basins, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY1:Jan 74:119:10261
Steam Jet Force Decay, R. H. Greenwood, SDNPF:Dec 73:591

Dechlorination
Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Decision Making
Alternative Water Resource Systems in the Lower Mekong, Kanchit Chaemsaithong, Lucien Duckstein and Chester C. Kisiel, HY3:Mar 74:461:10430
Bidding Models—The Final Resolution of a Controversy, John M. Dixie, CO3:Sept 74:265:10790
Clean Water Management: Objective Decisions or Emotional Reaction, Kerry W. Mulligan, CWFE:Mar 71:1
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE:Sept 72:54
Making Decisions in the Face of Uncertainty, Jack R. Benjamin, IMROD:Sept 73:356
Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253
Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253:9795
Probability, Statistics and Decision-Making for Civil Engineers, by Jack R. Benjamin and C. Allin Cornell (Book Review), John A. Blume, CE:Jan 71:12
Proximal Decisions in Traffic Intersections, Lloyd Sako and Samuel Zundelevich, TE3:Aug 73:597:9915
Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241
Reservoir Operation With Imperfect Flow Forecasts, Samuel O. Russell and William F. Caselton, HY2:Feb 71:323:7931
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
Urban Transportation Needs: Problems and Solutions, Austin E. Brant, Jr., Dana E. Low and Gerald P. Shea, NA:Mar 71:13

Decisions
Clean Water Management: Objective Decisions or Emotional Reaction, Kerry W. Mulligan, CWFE:Mar 71:1
Computer-Aided Processing of Structural Design Specifications, Surendra K. Goel and Steven J. Fenves, EC5:70:763
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE:Sept 72:54
Formulation Of Decision Logic Tables, Jimmy L. Noland and Chuan C. Feng, EC5:70:731

Decision Theory
Computer-Aided Processing of Structural Design Specifications, Surendra K. Goel and Steven J. Fenves, EC5:70:763
Formulation Of Decision Logic Tables, Jimmy L. Noland and Chuan C. Feng, EC5:70:731
Networking Methods for Project Planning and Control, Antoine E. Naaman, CO3:Sept 74:357:10814
Use of Decision Theory in Reservoir Operation, Samuel O. Russell, HY6:June 74:809:10586

Decomposition
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, NSCD:71:37

Decomposition Method
Substructure Analysis by Matrix Decomposition, Richard Rosen and Moshe F. Rubinstein, ST3:Mar 70:663:7169

Deep Ocean Vehicles
Concrete Hulls For Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, CEO-II:70:999

Deep Water
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45

Deep Wells
Management of Waste Fluids in Salaquifers, Raphael G. Kazmann, Oscar K. Kimbler and Walter R. Whitehead, IR4:Dec 74:413:10991

Defects
Caisson Construction Problems and Correction in Chicago, Clyde N. Baker, Jr. and Fazlur R. Khan, SM2:Feb 71:417:7934

Defense Systems
Radar Building Can Withstand Nuclear Attack, Edward Cohen and Edward B. Laing, CE:Oct 73:46

Deficiencies

Problems and Deficiencies: Economics and Environmental Considerations, David R. Miller, PITO:74:63

Definitions

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Deflection

Alternative Approach to Light-Gage Beam Design, James Rhodes and James M. Harvey, ST8:Aug 71: 2119:8327

Analysis of Longitudinal Behavior of Buried Pipes, Harry G. Poulos, GT74:June 74:199

Analysis of Pierced Shear Walls, Alexander Coull and R. D. Puri, ST1:Jan 68:71:5710

Analysis of Space Truss as Equivalent Plate, William R. Flower and Lewis C. Schmidt, ST12:Dec 71: 2777:8569

Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169

Axisymmetric Finite Deflection of Circular Plates, Gordon B. J. Mah, EM5:Oct 69:1125:6832

Behavior of Elastic-Plastic Frames, Alfred Korn and Theodore V. Galambos, ST5:May 68:1119:5942

Bounds on Large Dynamic Deformations of Structures, Tomasz Wierzbicki, EM3:June 70:267: 7344

Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238

Computation of Cutting Length of Guys, Stanley J. Jarecki, Y. C. Lee and Paul P. Christiano, PO4:Dec 71:817:8587

Coupled Walls Subjected To Discontinuous Distributed Loads, Ian J. Jordaan and Robert E. Loov, TN: ST7:July 72:1675:9069

Creep and Shrinkage in Reinforced Concrete Beams, Tuck Wah Leong and Robert F. Warner, ST3:Mar 70:509:7150

Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831

Curvature and the Solution of Eccentrically Loaded Columns, Wai F. Chen and Sakda Santathadaporn, EM1:Feb 69:21:6382

Deflection Analysis for Shakedown, Dale G. Eyre and Theodore V. Galambos, ST7:July 70:1359:7403

Deflection of Circular Plate with Built-in Edges, Manuel A.G. Silva and Leon M. Keer, ST8:Aug 71: 2073:8319

Deflections of Lightweight Reinforced Concrete Beams, John L. Heiman, TB:73:III-25-811

Deflections of Shallow Pier Foundations, Donald C. Slack and John N. Walker, SM4:July 70:1143:7391

Deflection Stability of Beams under Repeated Loads, Yuhshi Fukumoto and Hiroshi Yoshida, ST7:July 69:1443:6668

Design Aid for Deflection Calculation for a Uniformly Loaded Flexural Member, Thomas M. Chura, CE:Feb 72:75

Design and Construction of Mossyrock Penstocks, Edgar T. Moore, PO1:Jan 71:49:7799

Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785: 10154

Design Criteria for Turbine-Generator Pedestals, Asadour H. Hadjian, PO1:Jan 70:1:6991

Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765

Direct Design of Taut Cables under Uniform Loading, Anthony J. Wilson and Robert J. Wheen, ST3:Mar 74:565:10427

Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679: 8993

Dynamics of Impulsively Loaded Circular Plates, Robert J. Green, EM2:Apr 71:413:8079

Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73: III-23-537

Effect of Curvature on Nonlinear Frame Analyses, Mike E. James, Jr., Thomas J. Kozik and Jose E. Martinez, ST7:July 74:1451:10681

Effect of Weight on Large Deflections of Arches, J. Stewart Kennedy and Anand S. Aggarwal, EM3: June 71:637:8165

Elastic Analysis and Design, Summary Report, Leo Finzi, TB:73:II-14-247

Elastic Buckling of Beam Flange Plates, Kuang-Han Chu and Albert J. Gouwens, TN: EM4:Aug 71: 1329:8273

Elasto-Plastic Analysis of Ribbed Plates, Harvey A. Kagan and G. G. Kubo, ST4:Apr 68:943:5892

Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525

Elasto-Plastic Deflection of Tubular Beams, Leon Ru-Liang Wang, ST2:Feb 69:159:6379

Estimating Beam Size, Adrian J. Perez, CE:Dec 71: 67

Field Tests of Aluminum Orthotropic Bridge Deck, Maurice L. Sharp, ST11:Nov 69:2463:6920

Finite Deflections of Circular Membranes, John Peddieson, Jr., TN: EM3:June 73:634:9765

Finite Element Analyses of Port Allen Lock, James M. Duncan and Gerald W. Clough, SM8:Aug 71: 1053:8317

Finite Element Analysis of Slabs on Elastic Solids, Yang H. Huang, TE2:May 74:403:10535

Finite Element Bending Analysis of Reissner Plates, Charles W. Pryor, Jr., Richard M. Barker and Daniel Frederick, EM6:Dec 70:967:7760

Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921

Framed Tube Structures for High-Rise Buildings, Alexander Coull and Nutan Kumar Subedi, ST8: Aug 71:2097:8301

Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343

General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103

Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, ST9:Sept 74:1789:10779

Improved Two-Dimensional Finite Element, Robert D. Cook, ST9:Sept 74:1851:10808

Incremental Finite Element Matrices, Sundaramoorthy Rajasekaran and David W. Murray, ST12:Dec 73:2423:10226

Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478

Inelastic Analysis of Suspension Roof Structures, Donald P. Greenberg, ST5:May 70:905:7284

Inelastic Deflections of Beams, Alexander Chajes, ST6:June 68:1549:6012

Inelastic Shear Deflection of Steel Beams, Dale G. Eyre, ST10:Oct 73:1985:10052

Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819

Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455

Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359

Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271

Large Deflections of Arbitrarily Loaded Plated, Mandanapalli K. Prabhakara and Chun-Yuan Chia, TN: EM6:Dec 74:1282:10979

Large Deflections of Curved Plates, Henry W.L. Lee and Conrad P. Heins, Jr., ST4:Apr 71:1143:8045

Large Deflections of Viscoelastic Rings, Michael Schoenberg, EM1:Feb 69:223:6410

Lateral Analysis of Plywood Diaphragms, Warren H. Bower, ST4:Apr 74:759:10494

Lateral Wind on Side Spans of Suspension Bridges, Ahmet H. Gursoy, ST10:Oct 68:2399:6175

Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
Measuring Pile Deflections With Inclinometer, Jai B. Kim and Robert J. Brungraber, TN: GT7:July 74: 867:10641
Model I-Shaped Beams under Alternating Deflections, Settiana G. Krishnasamy and Archibald N. Sherbourne, TN: ST3:Mar 71:1015: 7946
Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63
Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746
Nonlinear Bending of Bars, Imamuddin Khwaja, TN: EM1:Feb 71:137:7858
Nonlinear Field Analysis of Structural Nets, R. Richard Avent, ST5:May 69:889:6556
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
Nonuniform Torsion of Steel Beams in Inelastic Range, Charles R. Farwell and Theodore V. Galambos, ST12:Dec 69:2813:6964
Pierced Shear Walls of Stepwise Variable Thickness, Alexander Coull, TN: ST5:May 74:1157:10536
Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255
Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279
Postbuckling of Column under Distributed Axial Load, Tung-Ming Wang, TN: EM4:Aug 71:1323: 8273
Post-Elastic Deflection of Plates, Roger Hooke, ST4: Apr 70:757:7206
Post Lateral Buckling Behavior of Beams, Gerald Zamost and E. Russell Johnston, Jr., EM4:Aug 71: 1133:8313
Practical Selection of Materials for Large Water Pipe, Donald P. Proudfit, TE1:Feb 69:203:6424
Predicted Performance of a Braced Excavation, Hugh Q. Golder, James P. Gould, T. William Lambe, Gregory P. Tschebotarioff and Stanley D. Wilson, SM3:May 70:801:7292
Random Walk Model of Ideal Granular Mass, Edward Hamilton Fletcher, SM10:Oct 71:1379: 8444
Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923
Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595
Shallow Spherical Shells Under Apex Loads, Isadore K. Silverman and John R. Mays, ST1:Jan 74:249: 10262
Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488
Significance of Variably Confined Triaxial Testing, John J. Allen and Marshall R. Thompson, TE4:Nov 74:827:10911
Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729: 8544
Slender Prestressed Concrete Columns, Samuel Aroni, ST4:Apr 68:875:5886
Slurry Wall Construction for BART Civic Center Subway Station, J. George Thon and Richard C. Harlan, SM9:Sept 71:1317:8361
Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
Some Recent Findings in Flexible Pavement Research, Frank H. Scrivner and William M. Moore, HW2:Nov 68:229:6252
Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913: 8253
Stability, Summary Report, A. Carpena, TB:73:II-16-605
Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449
Static Wind Loads on Circular Concave Cable Roofs, Gerald R. Seeley, Heinz Stefan and Paul P. Christiano, ST8:Aug 74:1593:10751
Stiffening Effect of Light Cladding, State-of-Art Report 4A, Eric R. Bryan and J. M. Davies, TB:73: II-17-643
Stiffness and Crack Control, Summary, J. Ferry Borges, TB:73:III-24-727
Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593: 8143
Stresses in Circular Plates on Elastic Foundations, Richard Bolton, EM3:June 72:629:8972
Structural Design of Pipeline Casing Pipes, Merlin G. Spangler, PL1:Oct 68:137:6194
Structural Steel Tiered Building Frames, State-of-Art Report 3, Anthony F. Nassetta, TB:73:Ia-3-465
Sustained and Cyclic Loading of Concrete Columns, Jostein Hellesland and Roger Green, ST4:Apr 71: 1113:8033
Systematic Design of Multistory Buildings, John F. Brotchie, ST7:July 74:1489:10678
A Systems Analysis Method For Pavement Structures, William Ronald Hudson, B. Frank McCullough and Frank H. Scrivner, EC5:70:95
Tapered Cantilevers with Varying Distributed Loads, Tung-Ming Wang and Chun-Hsiung Lee, TN: EM4: Aug 73:919:9898
Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867
Tests of One and Two-Story Flat Plate Models, C. Trevor Harnden, ST3:Mar 74:513:10392
Time-Dependent Reinforced Concrete Slab Deflections, Andrew Scanlon and David W. Murray, ST9:Sept 74:1911:10833
Transient Wind Loads on Circular Concave Cable Roofs, Paul P. Christiano, Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
Two-Dimensional Cable Analysis, George R. Buchanan, ST7:July 70:1581:7436
Use of Concentration Index for Pavement Design, Richard G. Ahlvin, Yu Tang Chou and Harry H. Ulery, Jr., TE1:Feb 74:135:10349
Vibrations of Triangular Viscoelastic Plates, John S. Hewitt and Jagannath Mazumdar, EM6:Dec 74: 1143:11004
Volume Minimization of Thin Plates Subject to Constraints, Zachary Sherman and Ping-Chun Wang, EM3:June 71:741:8192
Warping Stresses In Slabs On Reissner Foundation, Annapareddy Siva Reddy and Mysore R. Pranesh, TE3:Aug 71:511:8332
Wind Deflection of Tall Concrete Frame Buildings, John F. Wiss and Otto E. Curth, ST7:July 70:1461: 7413
Wind Spectra and Dynamic Alongwind Response, Emil Simiu, ST9:Sept 74:1897:10815

Deformation

Accuracy of Field Deformation Measurements, James P. Gould and C. John Dunnicliff, 4PCSM:71:1313
Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641: 8982
The Allowable Settlement and the Design of Foundations, Fernando Emmanuel Barata, 4PCSM: 71:II197
Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817
Analysis of Ribbed Plates, Donald L. Dean and Cyrus Omid'varan, ST3:Mar 69:411:6474
Approximate Stress Analysis for Guyed Towers, Stan H. Lowy, CE:Mar 72:80
Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71: 1183:8372
Capacitance Techniques For Radial Deformations, Adolph G. Altschaeffl and Louis P. Mishu, TN: SM4:July 70:1487:7387

Constructional Deformations in Rockfill Dam, Arthur D. Penman and Andrew Charles, SM2:Feb 73:139:9560

Control of Deformation Rates in Soil Testing, Roy E. Olson, Vincent J. McDonald and James N. Sterner, TN: SM1:Jan 71:283:7787

Correlations of Modulus of Deformation by the Use of a Combined In-Situ Deformation Measurement and Finite-Element Method -- Abstract, Samuel S.M. Chan and Grant L. Anderson, RM14:73:757

Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288

Deformation in Multiple Tier Cylindrical Shells, James H. Williams, Jr., TN: EM10:Oct 73:1114:10041

Deformation of Sand at Failure, Hon-Yim Ko and Ronald F. Scott, SM4:July 68:883:6028

Deformation of Sand in Shear, Hon-Yim Ko and Ronald F. Scott, SM5:Sept 67:283:5470

Deformations of Geometrically Imperfect Beams, Nicholas S. Trahair, ST7:July 69:1475:6682

Deformations Of Pile Supported Structures, S. P. Prawell, Jr. and R. L. Ketter, CEO-II:70:417

Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131

Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765

Differential Settlement of Buildings, Rebecca Grant, John T. Christian and Erik H. Vanmarcke, GT9:Sept 74:973:10802

Difficulties In Prediction Of Horizontal Deformations Of Foundations, Harry G. Poulos, TN: SM8:Aug 72:843:9085

Displacement Bounds for Blast Loaded Structures, Walter J. Morales, EM4:Aug 72:965:9147

Dynamics of Impulsively Loaded Circular Plates, Robert J. Green, EM2:Apr 71:413:8079

Eight Years of Observations at El Infiernillo Dam, Raul J. Marsal and Luis Ramirez de Arellano, PES:72:I-703

Elastic Behavior of Sand, Mohamed A. El-Sohby, SM6:Nov 69:1393:6916

Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898

Equipment for Field Deformation Measurements, C. John Dunnicliff, 4PCSM:71:II319

Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851

Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650

Finite Element Approach to Plane Microelasticity, Mohammed H. Baluch, John E. Goldberg and Severino L. Koh, ST9:Sept 72:1957:9203

Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353

Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051

Frame Analysis Considering Connection Shear Deformation, Wai F. Chen and David J. Fielding, TB:73:II-15-365

General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73:365:9604

General Stress-Strain-Time Function for Soils, Awtar Singh and James K. Mitchell, SM1:Jan 68:21:5728

Geometrically Nonlinear Analysis by Stiffness Method, James A. Stricklin, Walter E. Haisler and Walter A. Von Riesemann, ST9:Sept 71:2299:8392

The Gloucester Test Fill, Michael Bozozuk and Gerald A. Leonards, PES:72:I-299

Griffith Fracture Criterion and Concrete, Surendra P. Shah and Frederick J. McGarry, EM6:Dec 71:1663:8597

Incremental Finite Element Matrices, Sundaramoorthy Rajasekaran and David W. Murray, ST12:Dec 73:2423:10226

Inelastic Bar Subjected To Thrust and Cyclic Bending, Ben Kato and Hiroshi Akiyama, ST1:Jan 69:33:6335

Inelastic Finite Deformation of Planar Frames, Raouf A. Ridha and Lawrence H. N. Lee, EM3:June 71:773:8198

Inflatable Shells: Nonsymmetric In-Service Loads, John W. Leonard, EM5:Oct 68:1231:6190

Internal Piping and Shear Deformation. Victor Braunig Dam -- San Antonio, Texas, Ralph F. Reuss and John W. Schattenberg, PES:72:I-627

Irregular Supports and Skew Diaphragms of Box Girders, Vladimir Kristek, ST5:May 74:917:10541

Lagrangian Formulation of Sandwich Shell Theory, Peter G. Glockner and David J. Malcolm, EM3:June 73:445:9775

Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867

Lateral Loads in Asymmetric Multistory Structures, Arnold Winokur and Jacob Gluck, ST3:Mar 68:645:5842

Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825

Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901

Measured Deformation Behavior of Glen Canyon Dam, Joe T. Richardson, SU2:Sept 68:149:6097

Methods of Estimating Lateral Loads And Deformations, Norbert R. Morgenstern and Zdenek Eisenstein, LS:70:51

Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610

New Design Method for Corrugated Steel Pipe, Alma P. Moser and Reynold K. Watkins, CE:June 72:61

Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746

Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428

Nonlinear Analysis of Pin-Jointed Space Trusses, Marcelo Epstein and Yair Tene, ST9:Sept 71:2189:8357

Numerical Biaxial Characterization for Concrete, Karl M. Romstad, Michael A. Taylor and Leonard R. Herrmann, EM5:Oct 74:935:10879

Observational Data on Ground Movements Related to Slope Instability, Stanley D. Wilson, SM5:Sept 70:1519:7508

A Path Criterion for Deformation Plasticity Theory, Kerry S. Havner, EM3:June 69:747:6630

Permanent Deformation in Asphaltic Materials, Geoffrey E. Blight, TE1:Feb 74:263:10327

Plane Stress Reinforced Concrete Finite Elements, James Colville and Jamil Abbasi, ST5:May 74:1067:10554

The Pressure of Floating Ice-fields on Piles, Joachim Schwarz, 12CEC:71:1523

Problems with Large Underground Stations in Italy, Morando Dolcetta, URC:72:243

Recoverable Deformation Of Cohesionless Soils, Max D. Coon and Roger J. Evans, S&M2:Feb 71:375:7911

Reinforced Concrete Design for Strength and Deformability, Mir M. Ali and Donald E. Grierson, EM5:Oct 74:839:10859

Reinforced Lightweight Concrete Columns, Donald W. Pfeifer, ST1:Jan 69:57:6362

Remote Measurement of Radial Deformations, John H. Dudley, TN: SM6:June 71:965:8162

Restrained Elastic Beam-Columns, Nicholas S. Trahair, ST12:Dec 69:2641:6941

Runway Roughness Effects on New Aircraft Types, Harry R. Lee, AT1:Nov 68:1:6205

Seasonal Deformation of 2-Mile Straight Line, Joseph J. Spranza and Amos M. Nur, SM12:Dec 71:1623:8586

Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128

Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, GT2:Feb 74:139:10360
Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595
Small Vibrations of Uniformly Compressed Isotropic Elastic Solids, Paul Seide, TN: EM4:Aug 71:1337:8273
Soil-Cement Bases Under Thin Bituminous Surfacing, Boniface C. Obi, TE2:May 72:167:8871
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
Stability of Slurry Trench Cuts in Saturated Clay, George G. Meyerhof, PES:72:I-1451
Stability of Unbraced Single-Bay Multistory Frames, Adel Helmy Salem, ST2:Feb 73:223:9552
Static Wind Loads on Circular Concave Cable Roofs, Gerald R. Seeley, Heinz Stefan and Paul P. Christiano, ST8:Aug 74:1593:10751
Statistical Linearization for Nonlinear Structures, Wilfred D. Iwan and I-Min Yang, EM6:Dec 71:1609:8576
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, Yoichi Higashi and Toshikazu Takeda, TB:73:III-24-655
Stresses Due to Strip Loads on Incompressible Soil, Robin N. Chowdhury and George J.W. King, TN: SM12:Dec 72:1433:9399
Structural and Terrain Movements, John A. Dearinger, SU2:Nov 74:123:10896
Structural Response to Sonic Booms, Roland L. Sharpe and Garrison Kost, ST4:Apr 71:1157:8063
Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386
Tapered Box Girders of Deformable Cross Section, Vladimir Kristek, ST8:Aug 70:1761:7489
Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
Ultimate Deformation of Reinforced Concrete, Minoru Yamada, TB:73:III-22-467
Upper Bound Analysis Of Rough Footing Indentation, Lawrence A. Larkin, TN: EM2:Apr 72:493:8815

Deformation Methods
Nonlinear Analysis Using Spline Functions, Chandrakant S. Desai, SM10:Oct 71:1461:8462

Deformation Modulus
Analysis of Load-Bearing Fills over Soft Subsoils, James K. Mitchell and William S. Gardner, SM11: Nov 71:1549:8522

Deformed Bars
An American Engineer in Israel, Irving Kett, CE: June 72:63

Degradation
Experiences with Bed Sills in Stream Stabilization, Robert P. Apmann and Paul H. Blinco, WW3:Aug 69:319:6724
Laboratory Study of Degradation and Aggradation, Suryanarayana Bhamidipaty and Hsieh W. Shen, WW4:Nov 71:615:8493
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814
Unified Analysis of Grid Turbulence, Eduard Naudascher and Cesar Farell, EM2:Apr 70:121:7214

Degradation (Stream)
Tests of Scour Protection for Bridge Piers, Chesley J. Posey, HY12:Dec 74:1773:11017

Deicing
California Seals Salt-Damaged Bridge Decks, Robert L. Boulware and Arthur L. Elliott, CE:Oct 71:42
Water Pollution and Associated Effects from Street Salting, Richard Field, Edmund J. Struzeski, Jr., Hugh E. Masters and Anthony N. Tafuri, EE2:Apr 74:459:10473

Delaware
Brandywine Building, Vincent G. Kling and Partners, TB:73:C-P-386
Extreme Wave Statistics for Delaware Coastal Waters, Cheng Y. Yang, Mehmet Aziz Tayfun and George Chia-Chu Hsiao, WAVES:Sept 74:352
University of Delaware Dormitories, Charles Luckman Associates, TB:73:C-P-360

Delaware Basin
Tocks Island Lake Project, Gerald T. McCarthy, EE4:Aug 74:803:10718
Tocks Island Project Spillway Rock Mechanics Studies, A. Depman, K. Dodds and D. Parrillo, RM13:72:443

Delay Time
Causes of Delay in the Construction Industry, John R. Baldwin, James M. Manthei, Harold Rothbart and Robert B. Harris, CO2:Nov 71:177:8501
Delays and Interferences, Albert Foreman, CEWAU: 74:163
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877
Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
Queueing at Single-Berth Shipping Terminal, Alan J. Miller, WW1:Feb 71:43:7895
Staging of Improvements to Air Transport Terminals, Angus J. McKenzie, Jack W.E. Huggett and Kenneth W. Ogden, TE4:Nov 74:855:10920

Deltas
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Mekong Delta Mathematical Model Program Construction, Dino Zanobetti, Henri Lorgere, Alexandre Preissmann and Jean Andre Cunge, WW2:May 70:181:7259
Pattern Forming Forces in Deltas, Richard Silvester and Catalino del Rosario de la Cruz, WW2:May 70:201:7260
Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73:1551:10033

Demand
Demand Responsive Transportation Systemp, Daniel Roos, UTI:71:123
Engineering Manpower: Supply and Demand Relationships, Robert D. Kersten and John Paul Hartman, CEE:Feb 74:1-479
The Identification of Transportation Demand, Richard de Neufville and Joseph H. Stafford, UTI:71:281
Use of Decision Theory in Reservoir Operation, Samuel O. Russell, HY6:June 74:809:10586

Demand (Economics)
Demand Model for Intercity Multimode Travel, Jason C. Yu, TE2:May 70:203:7282
Northeast Corridor Transportation Project: Structure and Operations of Model System, Paul W. Shuldiner, TE4:Nov 70:445:7651

Demolition
Vibrations During Construction Operations, John F. Wiss, CO3:Sept 74:239:10798

Demonstration Watersheds
Hydrologic Response of Watersheds to Land Use Management, Louis M. Glymph, Heggie N. Holtan and Charles B. England, IR2:June 71:305:8174

Denitration
Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45

Denitrification
Biological Denitrification and Phosphate Removal, Wayne E. Wruble, Charles C. Plummer and Mark J. Hammer, TN: EE5:Oct 74:1199:10855
Nitrogen Removal By Modified Activated Sludge Process, Srinivasalu Balakrishnan and W. Wesley Eckenfelder, Jr., SA2:Apr 70:501:7236
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153

Denmark
Motorway Bridge Across Lillebaelt, by Chr. Ostenfeld et. al. (Book Review), M. Juul Hvorslev, CE:Dec 71:12

Densification
Session I: Densification During Placement (Rollers), Donald T. Goldberg, PISST:71:1
Session II: Densification after Placement (Preloading), Donald L. York, PISST:71:5
Session III: Densification after Placement (Drains), Steve J. Poulos, PISST:71:43

Density
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1: July 72:93:9053
Behavior of Single Mineral Soils in Triaxial Shear, Robert M. Koerner, SM4:July 70:1373:7432
Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939: 10170
Compaction of Sands By Repeated Shear Straining, T. Leslie Youd, SM7:July 72:709:9063
Densification and Shear of Sand During Vibration, T. Leslie Youd, SM3:May 70:863:7272
Density Of Adsorbed Water At Plastic Limit, Edward J. Doheny and A. Alexander Fungaroli, TN: SM5:May 72:523:8865
Density Studies of Cohesive Trench Backfills, Van A. Silver, Henry M. Reitz and Richard C. Huning, TN: SM2:Mar 70:789:7117
Effect of Unit Weight and Slope on Erosion, Richard L. Foster and L. Glen Martin, IR4:Dec 69:551: 6984
Effects of Density Ratio on Sedimentary Similitude, Walter G. Field, HY3:May 68:705:5948
Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679
Gravitational and Dispersive Mixing in Aquifers, Lynn W. Gelhar, John L. Wilson, III and John S. Miller, HY12:Dec 72:2135:9439
Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
Motion of Two-Dimensional Starting Plume, Gee Tsang and Ian R. Wood, EM6:Dec 68:1547:6321
Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300
Surface Jet at Small Richardson Numbers, Frank Engelund and Flemming Bo Pedersen, HY3:Mar 73:405:9588
Swirling Shallow Submerged Turbulent Plumes, Jai P. Narain, HY9:Sept 74:1229:10820
Three-Dimensional Density Current, Trevor R. Fietz and Ian R. Wood, HY6:Nov 67:1:5549
Undrained Strength of Anisotropically Consolidated Sand, Kenneth L. Lee and H. Bolton Seed, SM2: Mar 70:411:7136
Vibratory Densification of Damp Clayey Sands, Raymond J. Krizek and Jose I. Fernandez, SM8: Aug 71:1069:8320
Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129

Density (Mass/Volume)
Drainage Density in Drift-Covered Basins, John F. Orsborn, HY1:Jan 70:183:7033
Dynamic Prestraining of Dry Sand, Vincent P. Drnevich and Frank E. Richart, Jr., SM2:Mar 70: 453:7160

Density Currents
About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Density Currents and Turbulent Diffusion in Locks, A. Roy Halliwell and Martin O'Dell, 12CEC:71: 1959
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
Density Induced Return-Currents in Outlet Channels, Ben P. Rigter, HY2:Feb 70:529:7086
Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF: Aug 72:527
Horizontal Surface Discharge of Warm Water Jets, Nobuyuki Tamai, Robert L. Wiegel and Gordon F. Tornberg, PO2:Oct 69:253:6847
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649
Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3
Measurement of Density Currents in an Idealized Model, Timm Stuckrath, 12CEC:71:1979
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509

Density-Flow
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF: Aug 72:261

Density Measurement
Guidelines for Compaction Control of Fill, Raymond J. Frost, TN: SM12:Dec 73:1189:10189

Density Stratification
Cooling Water Density Wedges in Streams, Edward M. Polk, Jr., Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
Numerical Methods of Investigation into Stratified Flows, B. I. Sokolov, ISSF:Aug 72:659
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF: Aug 72:261

Deoxygenation
Oxygen Depletion Model for Cayuga Lake, J. Denis Newbold and James A. Liggett, EE1:Feb 74:41: 10346
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045

Deposition
Atmospheric diffusion and deposition of Particulate Matter, Robert W. Cleary, Donald Dean Adrian and Richard J. Kinch, EE1:Feb 74:187:10344
Clogging of Porous Column of Spheres by Sediment, Ramaswamy Sakthivadivel and Hans Albert Einstein, HY2:Feb 70:461:7075

Deposition of Sediment in Transient Flow, Fred F. M. Chang and Dennis L. Richards, HY6:June 71:837:8191

Mass Properties Of The Sea Floor In A Selected Depositional Environment, George H. Keller, CEO-II:70:857

Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY5:May 70:1157:7269

Deposits

Effects of Desposit Resuspension on Settling Basin, Takeichiro Takamatsu, Masaaki Naito, Sadataka Shiba and Yasuyo Ueda, EE4:Aug 74:883:10705

Foundation of Cerro de Oro Dam, Mexico, Raul J. Marsal and Aurelio Benassini, EFFD:Mar 74:249

Depth

Effects of Desposit Resuspension on Settling Basin, Takeichiro Takamatsu, Masaaki Naito, Sadataka Shiba and Yasuyo Ueda, EE4:Aug 74:883:10705

Estimating Beam Size, Adrian J. Perez, CE:Dec 71:67

Stress Measurement by Retractable Cable Method, Rodolfo V. de la Cruz, RM13:72:865

Derricks

1,250-ton Rotating Derrick, David M. Herring, CE:July 71:53

Desalination

New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19

Water Reuse Systems Analysis, A. Bruce Bishop and David W. Hendricks, SA1:Feb 71:41:7898

Desalting

Control of Natural Chloride, Arkansas-Red Rivers, Myron W. DeGeer and Robert J. Hensley, WW4:Nov 71:631:8494

Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673

Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136

Model Study of Dense Jet in Flowing Fluid, Forrest M. Holly, Jr. and John L. Grace, Jr., HY11:Nov 72:1921:9365

Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405

Transportation of Demineralized Water, Roy E. Dodson, PL1:Oct 68:127:6191

Descriptions

On Writing Descriptions, Richard R. Mayer, SU2:Sept 68:101:6094

Deserts

Irrigation Practices in Desert Regions of Chile, Wulf Klohn, IRS:Sept 72:211

Design

Airfield Pavement Systems, Edward L. Murphree, Ronald W. Woodhead and Robert H. Wortman, TE3:Aug 71:389:8283

Allowable Bending Stress Design Aid, Allen J. Hulshizer, CE:Feb 70:63

Alternate Approaches to the Education of Designers, John F. Oyler and Howard H. Hobson, CEE:Feb 74:1-390

Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997

Analysis of Orthotropic Steel Plate Bridge Decks, Graham H. Powell and David W. Ogden, ST5:May 69:909:6563

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Area and Volume Errors in Reservoir Projects, Antonio M. Aguilar, SU2:Nov 71:287:8538

Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43

Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102

Asphalt Paving Technology-Some Current Developments and Trends, Louis L. Monismith, CE:Aug 69:45

Automated Design of Frame Structures, Dag Kavlie and Johannes Moe, ST1:Jan 71:33:7823

Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795

Automatic Design Of Shell Structures, Peter G. Smith and Edward L. Wilson, EC5:70:289

Avalon Transportation Wharf, James W. Dunham, WW2:May 71:371:8104

Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74

The Baseball Diamond -- A Gridiron's Best Friend, Thomas C. Kavanagh, CEWAU:74:81

Basis for Simulation Model of Container Terminal, Fraser Dunford, TE3:Aug 72:607:9099

Behavioral Sciences Investigation, James Kise, ABS:71:101

Behavior and Transit Vehicle Design, Robert Lepper, MTI:May 72:37

Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837

Behavior Setting, Synormorphy, and Environmental Design, Paul V. Gump and Julius Marek, ABS:71:61

Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, Karl Kordina, TB:73:III-23-555

Bending of Deep Girders with A514 Steel Flanges, Phillip S. Carskaddan, ST10:Oct 69:2219:6839

Better Designs for Man through Teamwork, Training, Research, and Feedback, Calvin W. Taylor, ABS:71:11

Dsc, Bridge Substructure Design, Ashok Kumar Chugh, CE:Feb 72:63

Buckling of Shells: An Old Idea with a New Twist, John Roorda, EM3:June 72:531:8951

Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398

Bureau of Reclamation Shotcrete Design Practices, John W. Morris, SUSS:July 73:153

Case Studies of Interdisciplinary Team Efforts in Environmental Design, Eugene D. Jones, ABS:71:75

Channel Rectification Engineering Survey Program, John M. Shields, SU1:May 71:61:8119

Characterization of Mixing Aerated Lagoons, Keith L. Murphy and Alfred Warren Wilson, EE5:Oct 74:1105:10865

Civil Airport Design Criteria, Edwin W. Harn, TE1:Feb 69:13:6385

The Civil Engineer in the Concept Team, William H. Wisely, CE:Dec 71:37

Code Specification of Safety and Serviceability, State-of-Art Report 2, Emilio Rosenblueth, TB:73:Ib-10-931

Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48

Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85

Computer-Aided Processing of Design Specifications, Surendra K. Goel and Steven J. Fenves, ST1:Jan 71:463:7839

Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60

Constraint Processing in Design, Richard N. Wright, LeRoy T. Boyer and John W. Melin, ST1:Jan 71:481:7856

Containment Structure For Trojan Nuclear Plant, Jacob K. Aldersebaes and Karl Wiedner, PO2:Mar 71:351:7957

Cost Optimization of Structural Roof System, Samuel L. Lipson and Alan D. Russell, ST8:Aug 71:2057:8291

Cost Optimization of Welded Plate Girders, Natarajan Annamalai, Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258

Critique of Designs and Specifications, Grant P. Gordon, ECCD:72:201

Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-Europian Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB:73:II-13-37

Damage Functions for a Rubble-mound Breakwater Under the Effect of Swells, Juan B. Font, 12CEC:71:1567

Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862

Design and Construction of Mossyrock Penstocks, Edgar T. Moore, PO1:Jan 71:49:7799

Design and Operation Model of Activated Sludge, Joseph H. Sherrard and Alonzo W. Lawrence, EE6:Dec 73:773:10220

Design and Testing of Cone and Hypar Footings, Robert L. Nicholls and Mohammad V. Izadi, SM1:Jan 68:47:5732

Design Assumptions, C. K. Lalwani, TB:73:Ib-5-127

Design Concept for Assigning Urban Space, Richard W. Cockfield and Virginia K. Handa, UP2:Dec 71:191:8582

Design Conduit System By Dynamic Programming, Rex K. Liang, CO1:Mar 71:383:7998

Design Conduit System by Dynamic Programming, Tung Liang, HY3:Mar 71:7988

Design, Construction and Performance of Sesquile Dam, Tomas Shuk, Ricardo Cajiao and Jesus M. Sierra, SM1:Jan 70:177:6996

Design Criteria for Fenders and Berthing Structures, Brendan F. Saurin, BMS:71:256

Design Criteria for H-Columns under Biaxial Loading, Negussie Tebedge and Wai F. Chen, ST3:Mar 74:579:10400

Design Criteria for Turbine-Generator Pedestals, Asadour H. Hadjian, PO1:Jan 70:1:6991

Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407

Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423

Design Improvements in Concrete Dams, J. Laginha Serafim, RCCD:70:371

Designing Arterial Streets for Safety, Laurence A. Dondanville, TE1:Feb 71:43:7885

Designing to Prevent Fracture in Tall Buildings, State-of-Art Report 6, Stanley T. Rolfe and G. R. Egan, TB:73:II-18-781

Design of Beams With Web Openings, John E. Bower, ST3:Mar 68:783:5869

Design Of Earth Retaining Structures For Dynamic Loads, H. Bolton Seed and Robert V. Whitman, LS:70:103

Design of Hybrid Steel Beams, Report of Subcommittee 1 on Hybrid Beams and Girders, Joint ASCE-AAHSO Committee on Flexural Members, Charles G. Schilling, ST6:June 68:1397:5995

Design of Laterally Unsupported Timber Beams, David W. Fowler, ST3:Mar 71:881:7995

Design of Optimal Hydraulic Networks, Shmuel L.S. Jacoby, HY3:May 68:641:5930

Design of Reinforced Concrete Spandrel Beams, Thomas T.C. Hsu and Kenneth T. Burton, ST1:Jan 74:209:10277

Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256

Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191

Design Procedures for Dynamically Loaded Foundations, R. V. Richard, SM6:Nov 67:169:5569

Designs Tailored To Accelerate Concrete Dam Construction, Gurmukh S. Sarkaria, RCCD:70:161

Design — State-of-the-Art, by Subcommittee on Design and Specifications of the Task Committee on Pipelines in the Ocean, James W. Gillespie, Chmn., PITO:74:45

Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314

Determination of Efficient Open Channel Sections, Mohammad Ali Mahdaviani, HY6:Nov 67:103:5567

Development of Wells Hydroelectric Project, James G. Patrick, PO2:Mar 71:267:7967

Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765

Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804

Discrete Structural Optimization, Kenneth F. Reinschmidt, ST1:Jan 71:133:7829

DI-10 Distomat System, E. Kenneth Reynolds, SU2:Sept 70:137:7518

Double-Decking an Expressway, A. A. Trinidad, Jr., CE:Dec 69:59

Earthquake Design Criteria for Subways, Thomas R. Kuesel, ST6:June 69:1213:6616

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344

Education Today for Environmental Challenges Tomorrow, Russell S. Stearns, PP1:Oct 70:67:7554

Effect of Openings on Design of Subsurface Drains, Glenn O. Schwab, Darrell W. DeBoer and Howard P. Johnson, IR1:Mar 69:199:6480

Efficient Reanalysis of Modified Structurei, Dag Kavlie and Graham H. Powell, ST1:Jan 71:377:7846

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Electric Transmission Tower Design, Matthew Marjerrison, PO1:May 68:1:5932

Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46

Engineering Education and the Origins of Modern Structures, David P. Billington, CE:Jan 69:52

Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79

Engineer's Notebook: Ultimate Strength Design Of Circular Reinforced Concrete Cross Sections, George Fekete, CE:Nov 73:80

Environmental Impact Statements Discussed, CE:Feb 73:61

Escalators in Rapid Transit Stations, Robert S. O'Neill, TE1:Feb 74:1:10333

Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1:Jan 72:33:8657

Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695:8986

Fatigue Concepts for Concrete Airport Pavement Design, Robert G. Packard, TE3:Aug 74:567:10702

Fatigue of A514 Steel in Bolted Connections, Peter C. Birkemoe, Donald F. Meinheit and William H. Munse, ST10:Oct 69:2011:6811

Fatigue Strength of Rolled and Welded Steel, Manfred A. Hirt, Ben T. Yen and John W. Fisher, ST7:July 71:1897:8238

Flexible Culverts Under High Fills, Colin B. Brown, David R. Green and Stuart Powsey, ST4:Apr 68:905:5888

Formulation of Decision Logic Tables, Jimmy L. Noland and Chuan C. Feng, ST1:Jan 71:439:7855

Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834

General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103

Geologic Considerations in Shotcrete Design, Edward J. Cording, SUSS:July 73:175

Goals of the Conference, William J. Hedley, ABS:71:v

Grain Storage Structures for Food Deficient Areas, Alexander M. Turitzin, ST10:Oct 69:2161:6835

Ground Water Recharge Design for Renovating Waste Water, Herman Bouwer, SA1:Feb 70:59:7096

A Growing Need for Undergraduate Education in Precast Prestressed Concrete Design, Fromy Rosenberg, CEE:Feb 74:1-382

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Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, J. F. Camellerie, TB:73:Ia-4-781

Infiltration of Water into Nonuniform Soil, Herman Bouwer, IR4:Dec 69:451:6937

In-Plane Bending and Buckling of Arches, Walter J. Austin, ST5:May 71:1575:8130

Intersecting Titanium Spheres for Deep Submersibles, George F. Leon, EM3:June 71:981:8219

Introduction — Foundations of Dams, Richard D. Harza, EFFD:Mar 74:1

Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973

Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1: Feb 73:73:9557

Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271

Least Cost Design of Branched Pipe Network System, Arun K. Deb, EE4:Aug 74:821:10711

Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796

Limit Slope in Uniform Computations, Nagar S. Lakshmana Rao and Kalamear Shridharan, HY1: Jan 70:95:7011

Limits of Usefulness, State-of-Art Report 2, Lars Ostlund, TB:73:II-19-841

Loading Rates on Waste Stabilization Ponds, Larry W. Carter, Andrew Englande, Jr. and Alfred F. Mauldin, Jr., SA6:Dec 69:1117:6975

Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741

Lower Strength Steel Brittle Fracture Assessment, Mohammed H. Magued and D J. Laurie Kennedy, ST5:May 74:983:10551

Machine Stress Rated Lumber: Challenge to Design, William L. Galligan and Delos V. Snodgrass, ST12: Dec 70:2639:7772

Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9

Man-Oriented Program System for Engineering, George Rabe and Vincent A. Trossello, ST1:Jan 71: 223:7850

Mechanical Equipment at Edmonston Pumping Plant, Samuel Fong, CO3:Sept 74:279:10794

Minimum Weight Proportions for Steel Girders, Edward C. Holt and Gary L. Heithecker, ST10:Oct 69:2205:6838

Model Tests and Studies For Port Rashid, Dubai, Eric Loewy, 12CEC:71:1137

Modern Design of Concrete Pavements, Phil Fordyce and W. A. Yrjanson, TE3:Aug 69:407:6726

Multilevel Outlet Works at Four Existing Reservoirs, Garry H. Austin, Donald A. Gray and Donald G. Swain, HY6:Nov 69:1793:6877

Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299

Need For Diaphragms in Concrete Box Girders, Denison Campbell-Allen and Raymond J.L. Wedgwood, ST3:Mar 71:825:7965

On the Applications of ICES and Universal Program Software Systems, Louis H. Klotz, CE:Feb 69:72

Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632

Optimal Selection of Flexible Pavement Components, Salim S. Hejal, Thomas R. Buick and Joseph C. Oppenlander, TE2:Feb 71:1:7877

Optimization in Design of Hydraulic Network, Arun K. Deb and Asok K. Sarkar, SA2:Apr 71:141:8032

Optimization of Redundant Prestressed Structuree, Leonard Spunt, ST12:Dec 70:2589:7755

Optimization of Truss Geometry, Michael W. Dobbs and Lewis P. Felton, ST10:Oct 69:2105:6797

Optimum Design of Reinforced Concrete Tanks, Robert E. Melchers and George I. N. Rozvany, EM6:Dec 70:1093:7739

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4: Aug 72:891:9091

Owner-Engineer-Contractor Economic Considerations in Dam Construction, George L. Beard, ECCD:72:503

A Parallel Processing Approach To Bridge Planning, Andrew K.C. Wong and Tung Au, EC5:70:155

Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:1:9706

Pavement Design and Staging for Mayan Roads, Allen F. Lubina and Robert N. Panfill, TE4:Nov 71:651:8516

Pavement Evaluation and Design for Jumbo Jets, Bernard A. Vallerga and B. Frank McCullough, TE4:Nov 69:639:6895

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Philadelphia-Lindenwold High-Speed Line Surveys, Carl E. Hultin, SU1:May 71:7:8096

Pine Valley Creek--a First, A. P. Bezzone, CE:Aug 74:72

Pipeline Design to Reduce Anchor and Fishing Board Damage, Robert J. Brown, TE2:May 73:199: 9716

Plastic Design of Multistory Frames by Computer, George C. Driscoll, Jr., James O. Armacost, III and William C. Hansell, ST1:Jan 70:17:6995

Plastic Design of Multistory Steel Frames by Computer, LeRoy Z. Emkin and William A. Litle, ST1:Nov 70:2373:7689

Preliminary Design and Construction Concepts for Auburn Dam, James Legas, ECCD:72:181

Preliminary Design and Construction Concepts for Crystal Dam, James Legas, ECCD:72:191

Prismatic Solid Analysis of Pavement Structures, Raman Pichumani and John E. Crawford, GT74: June 74:303

Probabilistic Models for Seismic Force Designs, Jack R. Benjamin, ST5:May 68:1175:5950

Progress in Asphalt Pavement Thickness Design, Alfred W. Maner, CE:Mar 70:39

Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517

Public Works Capacity Expansion Based on Unit Cost, Carter H. Harrison, Jr., HY11:Nov 74:1707: 10955

Rapid Construction - Design Considerations, Alfred L. Parme, RCCD:70:151

Recent Approaches for Trickling Filter Design, John M. Baker and Quintin B. Graves, SA1:Feb 68:65: 5798

Recent Developments in Plastic Design Practice, Lynn S. Beedle, Le-Wu Lu and Lee C. Lim, ST9: Sept 69:1911:6781

Recommended Design Procedure for VASI-2 Systems, Norman D. Witteveen and Michael L. Borta, TE3:Aug 74:553:10721

Reevaluating Spillway Adequacy of Existing Dams, Bob J. Buehler, IMROD:Sept 73:320

Regime Theory Design of Canals with Sand Beds, Thomas Blench, IR2:June 70:205:7381

Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6: Dec 71:1625:8584

Reporter's Notes -- Session VI, John W. Leonard, ECCD:72:515

Researches on Sea-Walls, Shoshichiro Nagai, 12CEC: 71:1431

Review of Spillway Adequacy at Existing Bureau of Reclamation Dams, Garry H. Austin, IMROD:Sept 73:382

Review of Steel Design Standards in Australia, State-of-Art Report 4B, Maxwell G. Lay, TB:73:II-13-71

Role of Activated Sludge Final Settling Tanks, Richard I. Dick, SA2:Apr 70:423:7231

Role of Behavioral Science in Environmental Design, Sidney Cohn, ABS:71:115
Sample Approaches to Optimum Use of Marginal Lands, William W. Moore and Nicholas Chryssafopoulos, SM3:Mar 72:243:8789
Sediment Routing in Irrigation Canal Systems, Khalid Mahmood, IR1:Mar 74:49:10401
Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305:10145
Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142
Selection/Design of Shotcrete for Temporary Support, Ronald E. Heuer, SUSS:July 73:160
Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695
Settlement of Building on Pile Foundation in Sand, Robert M. Koerner and Antal Partos, GT3:Mar 74:265:10405
Sheet Pile Design with Variable Soil Parameters, William D. Kovacs, James H. Martin and Frank A. Gerig, TN: ST2:Feb 74:200:10310
Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488
Social and Environmental Factors in Design, Kneeland A. Godfrey, Jr., CE:Sept 70:48
Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807
Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676
Stability Problems of Wood Truss Bridge, Oscar M. Hahn, ST2:Feb 70:353:7095
Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51
Steel Box-Girder Bridges—Ultimate Strength Considerations, Charles G. Culver, Chmn., ST12:Dec 74:2433:11014
Steel Penstock Design For Tims Ford Dam, George E. Day and Horace S. Beckner, PO1:Jan 71:203:7803
Steel Pipe Design—Criteria For Oil, Water, Gas And Slurry Services, William R. DeKeyser, Ralph C. Hughes, L. I. Elder and G. R. Wilson, CE:Mar 74:64
Stiffening Effect of Light Cladding, State-of-Art Report 4A, Eric R. Bryan and J. M. Davies, TB:73:II-17-643
Stochastic Analysis of Orthokinetic Flocculation, Perry W. Cockerham and David M. Himmelblau, EE2:Apr 74:279:10446
Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436
Stress in Beams with Circular Eccentric Web Holes, Peter W. Chan and Richard G. Redwood, ST1:Jan 74:231:10291
Structural Modification by Perturbation Method, Jaroslaw Sobieszczanski, ST12:Dec 68:2799:6268
Sulfide Production in Waste Stabilization Ponds, Earnest F. Gloyna and Ernesto Espino, SA3:June 69:607:6637
Summary of Workshop B - Shotcrete Design, P. L. Boileau, SUSS:July 73:232
Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235
Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
Technique for Interactive Computer Graphics in Design, Richard T. Douty and Sidney Shore, ST1:Jan 71:273:7837
Temporary Bulk Grain Storage Structures, Alexander M. Turitzin, ST3:Mar 69:381:6459
Theories of Closure of Rockfill Dams, John A. Sandover, CO2:Nov 71:313:8542
Three-Dimensional Approach for Design of Cuts in Jointed Rock, Francois E. Heuze and Richard E. Goodman, RM13:72:397
Three-Dimensional Inelastic Subassemblage Design, John F. Lott, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1445:8108
Torsional Vibrations of Circular Foundations, Gerd F. Weissmann, SM9:Sept 71:1293:8402
Tower Designs for AEP 765-KU Project, Richard A. Kravitz and James A. Samuelson, PO2:Oct 69:305:6855
Transportation Model Applied to Landfill Design, Robert B. Conrad and E. Kenneth Hoffman, EE3:June 74:549:10575
Trends in Design and Construction Practice for Concrete Dams, Jean M. Muller, ECCD:72:397
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
Ultimate Strength of Biaxially Loaded Steel H-Columns, Wai F. Chen and Toshio Atsuta, ST3:Mar 73:469:9613
Uncertainty, Safety, and Decision in Soil Engineering, Tien H. Wu, GT3:Mar 74:329:10434
Unified Basis for Biological Treatment Design and Operation, Alonzo W. Lawrence and Perry L. McCarty, SA3:June 70:757:7365
Unreinforced Masonry Load-Bearing Walls, Kenneth P. Buchert, CE:Dec 73:64
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
Use of Shotcrete from the Standpoint of the Designer, Cole R. McClure, SUSS:July 73:18
Use of Sociology in Design Practice, Robert Gutman, ABS:71:109
User Oriented Approach to Housing Design for Indians, Richard D. Bauman and Arn Henderson, UP1:Mar 74:29:10384
Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Wave Forces on Cylinders Near Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, WW4:Nov 74:345:10944
What's the Deal? Government Negotiates Engineering Services, Richard H. Tatlow, III, PP1:Sept 70:81:7557
What, Why and Where Of The Design And Construction Of Gravity Dams, William R. Waugh, RCCD:70:173
Wood Design Criteria for Concrete Formwork, King Royer, CO2:Sept 67:13:5432
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
The 1-Point Procedure, R. A. Georgi, CE:Feb 71:60
1969 AISC Specifications, Theodore R. Higgins, CE:Oct 69:53

Design Assumptions
Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568

Design Criteria
Bearing Capacity of Eccentrically Loaded Footings, Shamsher Prakash and Swami Saran, SM1:Jan 71:95:7814
Civil Engineering Management in Private Practice, Elmer K. Timby, PP1:July 69:17:6661
Design Parameters for Thermal Shock Problems, Tauchao C. Fan, ST2:Feb 70:309:7088
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723

Design Data
Book Review: Design of Functional Pavements, Ernest J. Barenberg, CE:Apr 73:40
Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009

Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006

Designers

Environment by Design, William L. Slayton, CE:Oct 71:85

Design Practices

Book Review: Design of Functional Pavements, Ernest J. Barenberg, CE:Apr 73:40

Developing Region in Self-Aerated Flows, Robert J. Keller, K. K. Lai and Ian R. Wood, HY4:Apr 74: 553:10501

Environmental Aspects of Site Selection, Eugene F. Dudley, PO1:June 72:21:8971

Design Standards

Design Standards for Wastewater Treatment Systems, Robert A. Canham and Louis L. Guy, Jr., CE:Feb 72:40

Desilting

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177

Desorption

Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72: 937:9401

Destruction

Destruction of Bacteria and Viruses in Seawater, Ralph Mitchell, SA4:Aug 71:425:8299

Destructive Tests

Behavior of Simply Supported Slabs, Murray A. Muspratt, ST12:Dec 69:2703:6945

Detention Reservoirs

Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72: 287:8819

Deterioration

Alkali-Silica Reaction: A Major Cause of Concrete Deterioration, Joseph D. Walters, IMROD:Sept 73: 464

Bonded Concrete Overlays, Raouf Sinno and Howard L. Furr, ST8:Aug 70:1627:7450

Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43

Development

Book Review: Ecology and International Development, Kim de Rubertis, CE:Jan 73:27

Financing Airport Development, James H. Kerley, Jr., ASC73:Mar 73:141

Orthophotomapping for Prudhoe Bay Development, Thomas J. O'Brien, SU2:Nov 71:199:8499

Planning Profitable Irrigation Investments in Missouri, Herman E. Workman, OIDS:72:491

Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732

Dewatering

Dewatering Case History in Florida, John H. Schmertmann, CO3:Sept 74:377:10803

Earth Dam Built Without Dewatering, Keith A. Henry, CE:Jan 71:37

Effects of Foundation Construction on Nearby Structures, David J. D'Appolonia, 4PCSM:71:I189

Effects of Foundations on Adjacent Structures, State-of-Art Report 3, Endre Horvat and Cornelius van der Veen, TB:73:Ia-11-905

Estimation of Sludge Centrifuge Performance, P. Aarne Vesilind, SA.3:June 70:805:7378

Foundation Failure, Jacob Feld, CE:June 73:89

Graving Dock for 300,000-ton Ships, Charles F. Millard and Jay J. Hassani, CE:June 71:71

Optimal Pumping for Aquifer Dewatering, Eduardo Aguado, Irwin Remson, Mary F. Pikul and Will A. Thomas, HY7:July 74:869:10639

Soils Engineering For Wells Project, Harris H. Burke, PO2:Mar 71:317:7976

Stress Path Method, T. William Lambe, ST6:Nov 67: 309:5613

Unsteady Drawdown in Well Groups, Raymond J. Krizek, Gabor M. Karadi and D. Babu Rao, HY10: Oct 71:1625:8436

Diaphragms (Mechanics)

Columns Braced by Girts and a Diaphragm, Tamirisa V.S.R. Apparao, Samuel J. Errera and Gordon P. Fisher, ST5:May 69:965:6576

Finite Element Analysis of Metal Deck Shear Diaphragms, Arthur H. Nilson and Albert R. Ammar, ST4:Apr 74:711:10467

Diatomaceous Earth

Virus Removal by Diatomaceous Earth Filtration, Malay Chaudhuri, Parviz Amirhor and Richard S. Engelbrecht, EE4:Aug 74:937:10732

Dieldrin

Contamination of Oysters by Pesticides, Donald R. Rowe, Larry W. Canter and J. W. Mason, SA5:Oct 70:1221:7619

Dieldrin in Runoff from Treated Watersheds, J. H. Caro, W. M. Edwards and B. L. Glass, IAWM:72: 141

Dielectrics

Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235

Difference Equations

Analysis For Truss Buckling, Donald L. Dean and Frederick R. Jetter, TN: ST8:Aug 72:1893:9086

Flexibility Influence Functions for Curved Beams, Myron C. Young, ST7:July 69:1407:6657

Models For Approximate Frame Analysis, Donald L. Dean and R. Richard Avent, TN: ST8:Aug 72: 1903:9086

Differential Equations

Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641: 8982

Finite Element Method: A Galerkin Approach, Stanley G. Hutton and Donald L. Anderson, EM5: Oct 71:1503:8448

Finite Element Solutions To Differential Equations, John W. Leonard and T. Taz Bramlete, TN: EM6: Dec 70:1277:7715

Solution of Differential Equations in Structural Mechanics, G. Michael Folie, TN: EM6:Dec 70: 1297:7715

Three-Dimensional Vibrations of Orthotropic Cylinders, Fang-Hui Chou and Jan D. Achenbach, EM4:Aug 72:813:9102

Differential Settlement

Analysis of Arching Pressures in Ideal Elastic Soil, Zvi Getzler, Menachem Gellert and Ruben Eitan, SM4:July 70:1357:7431

Bridge Foundation Behavior in Alaska Earthquake, Grant A. Ross, H. Bolton Seed and Ralph R. Migliaccio, SM4:July 69:1007:6664

Differential Settlement of Buildings, Rebecca Grant, John T. Christian and Erik H. Vanmarcke, GT9: Sept 74:973:10802

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Sand Compaction by Vibroflotation at Cape May, New Jersey, Robert J. Westberg and Herbert O. Ireland, PES:72:I-1037

Settlement Due to Chemical Attack of Soils, Robert G. Lukas and Robert J. Gnaedinger, Jr., PES:72:I-1087

Diffraction

Computation of Combined Refraction-Diffraction, J. C.W. Berkhoff, CE13:72:I-471

The Dynamics of a Coast with a Groyne System, W. T. Bakker, E. H.J. Klein Breteler and A. Roos, 12CEC:71:1001

Growth of Crenulate Shaped Bays to Equilibrium, Richard Silvester, WW2:May 70:275:7274

Interaction of Waves with Submerged Objects, C. J. Garrison and V. Seetharama Rao, WW2:May 71:259:8111

A Method of Numerical Analysis of Wave Propagation -- Application to Wave Diffraction and Refraction, Yoshiyuki Ito and Katsutoshi Tanimoto, CE13:72:I-503

Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333

Refraction de la Houle avec Diffraction Moderee, Francis Biesel, CE13:72:I-491

Wave Diffraction by Rigid Foundations, Martin A. Salmon, TN: EM4:Aug 73:902:9898

Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Diffusers

Use of Mixing Tubes on Marine Outfalls, Richard Silvester and Mana Patarapanich, CE13:72:III-2171

Diffusion

Atmospheric diffusion and deposition of Particulate Matter, Robert W. Cleary, Donald Dean Adrian and Richard J. Kinch, EE1:Feb 74:187:10344

Buoyant Forced-Plumes in Cross Flow, Vincent H. Chu and Michael B. Goldberg, HY9:Sept 74:1203:10805

Characterization of Settling Tanks by Eddy Diffusio4, Hassan M. El-Baroudi, SA3:June 69:527:6618

Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678

Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483

Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72:161

Diffusion and Dispersion in Open Channel Flow, Arthur C. Miller and Everett V. Richardson, HY1:Jan 74:159:10298

Diffusion of Sediment in Developing Flow, Robert P. Apmann and Ralph R. Rumer, Jr., HY1:Jan 70:109:7018

Diffusion of Sewage Effluent from Ocean Outfall, Robert E. Stewart, Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, SA4:Aug 71:485:8340

Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11:Nov 72:1969:9330

Dilution of Buoyant Two-Dimensional Surface Discharges, Heinz Stefan, HY1:Jan 72:71:8653

Dispersion Prediction from Current Meters, Mervin D. Palmer and J. Bryan Izatt, HY8:Aug 70:1667:7464

Examination of the Thermocline, John C. Sonnichsen, Jr. and Clarence A. Oster, SA2:Apr 70:353:7219

An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493

Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313:10241

Internal Hydraulics of Thermal Discharge Diffusers, Svein Vigander, Rex A. Elder and Norman H. Brooks, HY2:Feb 70:509:7085

Jet-Induced Circulation and Diffusion, Constantin Rouse, HY2:Mar 69:589:6445

Measurement of Density Currents in an Idealized Model, Timm Stuckrath, 12CEC:71:1979

Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469

New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770

Power Law Solutions for Vertical Plumes, Richard R. Brock, HY9:Sept 70:1803:7523

Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, M. E. Berlyand and E. L. Genikhovich, ISSF:Aug 72:125

Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451

Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35

Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285

Transverse Dispersion in Oscillatory Channel Flow, Peter R.B. Ward, HY6:June 74:755:10589

Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87

Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109

Diffusion Theory

Drainage of Soil Profiles, Royal H. Brooks, Corey Benedict, Gilbert L. Corey and Arthur T. Cores, IR3:Sept 71:455:8389

Diffusivity

Effects of Viscous Sublayer on Dispersion, Chin-lien Yen, SA6:Dec 69:1105:6971

Digital Computers

Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31

Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547:9117

Digital Simulation

Control of Anaerobic Digestion Process, Aaron S. Collins and Bobby E. Gilliland, EE2:Apr 74:487:10475

Digital Model of Alluvial Aquifer, Peter C. Trescott, George F. Pinder and John F. Jones, WW3:May 70:1115:7264

Flood Frequency Estimating Techniques for Small Watersheds, George Fleming and Delbert D. Franz, HY9:Sept 71:1441:8383

Generic Feed Forward Control of Activated Sludge, John J. Davis, Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803

Digital Techniques

Coordinated Mapping Program Saves Money for County, Ivan F. Gennis and Joseph P. Allesandri, CE:Dec 73:45

Digital Program for Water Network Analysis, Roger P. Donachie, HY3:Mar 74:393:10424

Metagame Analysis of Water Resources Conflicts, Keith W. Hipel, R. K. Ragade and Tharakkal E. Unny, HY10:Oct 74:1437:10861

Dikes

Analyses and Performance of a Dike on Fibrous Peat, Igor Holubec and Ronald E. Langston, PES:72:I-415

Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66

Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54

Design Criteria for North Sea Dikes, Johann Kramer, WW4:Nov 71:703:8548

Design of Columbia River Pile Dikes, Robert O. Dodge, WW2:May 71:323:8142

Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198

The History and Philosophy of Coastal Protection, Per Moller Bruun, CE13:72:I-33

Hydrographic Survey Techniques on Mississippi, Otis T. Welch, SU1:May 71:109:8123
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
Run-Up Distributions of Waves Breaking on Slopes, Jurjen A. Battjes, WW1:Feb 71:91:7923
Standing Waves in Front of a Sloping Dike, Nobuo Shuto, CE13:72:III-1629
Trends in Offshore Airports, Richard D. Harza, TE4: Nov 72:985:9343

Dilatancy
Duplication of Dilatancy in Analysis of Jointed Rocks, Richard E. Goodman and Jacques Dubois, SM4:Apr 72:399:8853
Secondary Compression in the Shear of Clays, Leonard K. Walker, SM1:Jan 69:167:6348
Stress-Strain Relationships for Particulate Materials at Equilibrium, Peter W. Rowe, PES:73:III-327

Dilution
Diffusion Of Sewage Effluent From An Ocean Outfall, Robert E. Stewart, Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, CEO-II:70: 1151
Electrode Potential Control Of Ocean Outfalls, Werner N. Grune, Philip Quinn and Susan DiPrima, CEO-II:70:1187
Model Study of Dense Jet in Flowing Fluid, Forrest M. Holly, Jr. and John L. Grace, Jr., HY11:Nov 72:1921:9365
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
Thermal Power Plant Environmental Studies, M. J. Doyle, Jr. and Ramon F. Cayot, CE13:72:III-2075
Use of Mixing Tubes on Marine Outfalls, Richard Silvester and Mana Patarapanich, CE13:72:III-2171

Dimensional Analysis
Dimensional Analysis - Spurious Correlation, Mehmet Selim Yalin and J. William Kamphuis, 12CEC:71:625
Directional Analysis in Model Design, Fernando Vasco Costa, EM2:Apr 71:519:8053
Effects of Density Ratio on Sedimentary Similitude, Walter G. Field, HY3:May 68:705:5948
Model Study of Boundary Effects on Ditch Drainage Division, Eugene W. Rochester, Jr., IR4:Dec 68: 493:6313
Motion of Two-Dimensional Starting Plume, Gee Tsang and Ian R. Wood, EM6:Dec 68:1547:6321
Nonlinear Flow in Porous Media, Nazeer Ahmed and Daniel K. Sunada, HY6:Nov 69:1847:6883
Prediction Equation for Reaeration in Open-Channel Flow, Y. Lam Lau, TN: SA6:Dec 72:1063:9398
Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939
Three-Dimensional Analysis, Bernardo J. Deschapelles, TB:73:III-24-725
Vectors in Dimensional Analysis, Johannes Gessler, EM1:Feb 73:121:9561

Dimensional Measurement
Dimensional Tolerance in Concrete, Anthony E. Fiorato and Sven Sahlin, TB:73:Ib-9-893

Dimensions
Dimensional Tolerance - Concrete, State-of-Art Report 5, Philip W. Birkeland and Leonard J. Westhoff, TB:73:Ib-9-845
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72, 171pp.
Sizing of Pumped Storage Conduits, Raymond K. Sullivan, Jr., PO3:July 71:667:8252

Dimpling
Thin-wall Pile Driven by Improved Technique, Fredric Rusche, CE:Jan 71:54

Directional Measurement
Development of a Shallow-Water Wave Direction Gage, R. J. Hallermeier and William R. James, WAVES:Sept 74:696
Directional Spectra Model for Ocean Waves, Jared L. Black, WAVES:Sept 74:713
Flow-Field Relationships in Directional Waves, R. R. Putz, WAVES:Sept 74:721
Refraction Computations for Practical Applications, Ove Skovgaard and Jens Aage Bertelsen, WAVES: Sept 74:761
Relationship Between the Significant Waves and the Directional Wave Spectrum, Shan-Hwei Ou, Charles L. Bretschneider and Frederick L.W. Tang, WAVES:Sept 74:728
Study of Wave Climate in Nearshore Waters, Steven S. Pawka, WAVES:Sept 74:745

Direct Shear
Behavior of Returned Lunar Soil in Vacuum, W. David Carrier, III, Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156

Disadvantaged Groups
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369

Disasters
Building Practices for Disaster Mitigation: Book Review, Glen V. Berg, CE:Jan 74:30

Discharge
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958
Influence of Soils on Water Yields, Julius H. Dawes, IAWM:72:85
A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171: 9034
Numerical Modeling of Constituent Transport in Bay Systems, Robert G. Dean and R. B. Taylor, CE13: 72:III-2227
Power Plant Cooling Water Discharge in Streams, Liang-Tseng Fan, Jie-Tsai Tseng and Ching Hwang, PO4:Dec 71:841:8595
Rapid Discharge Measurement In Tidal Inlets, Bent A. Christensen and H. E. Walker, CEO-II:70:743
Thermal Discharges From Large Nuclear Plant, Stanley Moyer and Edward C. Raney, SA6:Dec 69: 1131:6983

Discharge (Water)
Cooling Water Structures for FitzPatrick Nuclear Plant, Ralph W. Gunwaldsen, Bruno Brodfeld and George E. Hecker, PO4:Dec 71:767:8572
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177
Discharge and Travel Time for Ground-Water Conduits, Stanley S. Butler and David L. Gundlach, IR1:Mar 74:17:10393
Discharge, Slope, Bed Element Relations in Streams, J. K. Virmani, Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Geometric and Frictional Effects on Sudden Releases, Shih-Tun Su and Albert H. Barnes, HY11:Nov 70:2185:7650
Legal Aspects of Thermal Discharges, Angel J. Martin, HY7:July 74:1059:10682
Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469

Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB: Aug 73:21
Seepage Through Triangular Dam Without Tailwater, Michael A. Collins, TN: SM9:Sept 71:1355:8391
Shape Factors for Cooling Lakes, John Eric Edinger, PO4:Dec 71:861:8616
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451
Theoretical Irrigation Tailwater Volumes, Ott C. Wilke, TN: IR3:Sept 73:415:9967
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433
Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176
Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359

Discharge Coefficients
Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2: Feb 73:259:9542
Nonenlarged Box Culvert Inlets, John L. French, HY6:Nov 69:2115:6928
Spatially Varied Flow Over Side-Weirs, Kanakatti Subramanya and Subhash Chandra Awasthy, HY1: Jan 72:1:8627

Discharge Lines
Designing Launders for Settling Tanks, Chesman A. Lee, CE:Aug 71:69
Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72: 1117:9014
Vibration Analysis of Pump Discharge Lines, Jesse M. Diaz and Ravinder K. Jain, HY11:Nov 70:2279: 7678

Discharge Measurement
Estimating Discharge From Superelevation in Bends, Robert P. Apmann, HY1:Jan 73:65:9482
Performance and Design of Labyrinth Weirs, Nessim Hay and Geoffrey Taylor, HY11:Nov 70:2337:7691
Rapid Discharge Measurement In Tidal Inlets, Bent A. Christensen and H. E. Walker, CEO-II:70:743

Discontinuities
Acoustic Techniques Suitable for Use in Soil, D. L. Hipkins and L. A. Whitney, EFSE:Aug 74:159
Cumulative Sums Technique: A New Approach to Analyzing Joints in Rocks, Douglas R. Piteau and Lindsay Russell, RM13:72:1
Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3: June 72:581:8970
Discrete Element Techniques for Rock Slope Analysis, K. C. Ko, RM13:72:183
Experimental Study of Frictional Properties of Faults, Fred A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Faulting Across Discontinuities in Anisotropic Rock, Fred A. Donath, RM13:72:753
Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
Open Pit Mine Slope Stability: The Berkeley Pit, William G. Pariseau and Koehler Stout, RM13:72: 367
Progressive Failure of Excavated Rock Slopes, Nicholas Barton, RM13:72:139
Shear Strength of Flat Surfaces in Rock, James H. Coulson, RM13:72:77
Stability of Discontinuous Rock Masses Under Polyaxial Stress Systems, Peter B. Attewell and John P. Woodman, RM13:72:665

Discrete Distribution Functions
Automated Optimum Design From Discrete Components, Aldo Cella and Robert D. Logcher, EC5:70:259
Experimental Verification of Discrete-element Solutions for Plates, Sohan L. Agarwal and William Ronald Hudson, TN: ST8:Aug 71:2159:8275
Field Solutions for Shear Grids, Donald L. Dean, ST12:Dec 71:2845:8594
Stability and Boundedness Via Liapunov's Direct Method, Siegfried M. Holzer, EM5:Oct 72:1273: 9280

Discrete Model
Buckling of Plates of Abruptly Varying Stiffness, P. Paramasivam and Jawalker K. Sridhar Rao, ST6: June 69:1313:6635

Discriminate Analysis
Macro Approach to Discrete Field Analysis, Donald L. Dean and Hota V.S. GangaRao, EM4:Aug 70: 377:7463

Disease Vectors
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37

Disinfectants
Modern Concept of Disinfection, Shih L. Chang, SA5:Oct 71:689:8441

Disinfection
Alternate Methods of Wastewater Disinfection, John R. Elwood, Russell H. Isaac and Martin Weiss, NSCD:71:189
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, NSCD: 71:319
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
Bactericidal Disinfectant Testing by Micromethods, Winfred F. Maline, Theodore F. Wetzler and Lloyd G. Herman, NSCD:71:307
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, NSCD:71:61
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, NSCD:71:37
Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, NSCD:71:585
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Philipps, NSCD:71:163
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Current Perspectives in Disinfection, Bernard B. Berger, NSCD:71:1
Disinfectant Chemistry and Biocidal Activities, J. Carrell Morris, NSCD:71:609
Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722
Effect of Inorganics on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, NSCD:71:85
The Effect of Solids on Sewage Disinfection, William C. Lee and D. H. Waller, NSCD:71:203
Emergency Water Disinfection Practice, Surinder K. Kapoor and John T. O'Connor, NSCD:71:179
Engineering Considerations in Disinfection, Robert J. Baker, NSCD:71:683
Enteric and Pathogenic Bacteria Dieoff Effects by Algae, E. M. Davis, M. Pen and Earnest F. Gloyna, NSCD:71:539
Estuary Water Quality and Salmonella, Francis T. Brezenski, NSCD:71:481
Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, NSCD:71:453
Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, SA1:Feb 72:11:8703
Halogen Action on Bacteria, Viruses, and Protozoa, Cornelius W. Kruse, Yu-Chih Hsu, Annabel C. Griffiths and Richard Stringer, NSCD:71:113

Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, NSCD:71:365
An Integrated Approach to the Problem of Viruses in Water, Gerald Berg, NSCD:71:339
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, NSCD:71:515
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
Mathematical Evaluation of Gaseous and Dry Heat Treatments, C. R. Stumbo, NSCD:71:469
Modern Concept of Disinfection, Shih L. Chang, NSCD:71:635
Modern Concept of Disinfection, Shih L. Chang, SA5:Oct 71:689:8441
Natural Virus Inactivation Processes in Sea Water, Hillel I. Shuval, Andrew Thompson, Badri Fattal and Samuel Cymbalista, NSCD:71:429
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, NSCD:71:137
Recent Advances in Determining Free Chlorine, George Patterson Whittle, NSCD:71:269
Salmonellae in Fresh Water Pollution, Edwin E. Geldreich and Dale J. Van Donsel, NSCD:71:495
Salt and Virus Inactivation by Chlorine and High pH, Otis J. Sproul, Robert T. Thorup, David F. Wentworth and James S. Atwell, NSCD:71:385
Status of Methods for Halogen Determination (Br-Cl), Frank W. Sollo, Florence F. McGurk and Thurston E. Larson, NSCD:71:245
Status of Water Disinfection with Iodine, Riley N. Kinman, A. P. Black and W. C. Thomas, Jr., 4NSCD:71:11
Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, NSCD:71:223
Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, SA5:Oct 71:601:8423
Viral Pollution and Depuration of Shellfish, Oscar C. Liu, NSCD:71:397
When is Tertiary Treatment the Wrong Solution to a Non-Problem?, Hayman W. Stokes and Lloyd D. Hedenland, CE:Sept 74:86

Disks (Shapes)

Radial Flow Between Porous and Solid Discs, Chyan S. Chiou and Harold L. Weissberg, TN: EM6:Dec 71:1759:8559

Dispersing

Causes of Clay Sensitivity, James K. Mitchell and William N. Houston, SM3:May 69:845:6568
Reaeration Prediction in Natural Streams, Edward L. Thackston and Peter A. Krenkel, SA1:Feb 69:65:6407

Dispersion

Computer Studies of Estuary Water Quality, Donald O. Hodgins and Michael C. Quick, CE13:72:III-2317
Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958
Diffusion and Dispersion in Open Channel Flow, Arthur C. Miller and Everett V. Richardson, HY1:Jan 74:159:10298
Diffusion Of Sewage Effluent From An Ocean Outfall, Robert E. Stewart, Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, CEO-II:70:1151
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813
Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553
Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138
Dispersion of Floating Particles in Uniform Channel Flow, Frank Engelund, HY4:July 69:1149:6659
Dispersion of Silt Particles in Open Channel Flow, William W. Sayre, HY3:May 69:1009:6579
Dispersion Prediction from Current Meters, Mervin D. Palmer and J. Bryan Izatt, HY8:Aug 70:1667:7464
Effects of Desposit Resuspension on Settling Basin, Takeichiro Takamatsu, Masaaki Naito, Sadataka Shiba and Yasuyo Ueda, EE4:Aug 74:883:10705
Effects of Dispersion on DO-sag in Uniform Flow, Wen-Hsiung Li, SA1:Feb 72:169:8743
Effects of Wastewaters on Marine Biota, Wheeler J. North, CE13:72:III-2099
Effluent Disposal in South San Francisco Bay, John A. Lager and George Tchobanoglous, SA2:Apr 68:213:5891
Estimating Dispersion Coefficents In Estuaries, David A. Bella and William J. Grenney, TN: HY3:Mar 72:585:8754
An Evaluation of Mixing in the Tay Estuary, J. R. West and David J.A. Williams, CE13:72:III-2153
The Federal Water Pollution Control Administration's Research Program on Ocean Pollution Control, Arnold B. Joseph, Fred D. Sisler, Donald J. Baumgartner and William A. Cawley, CEO-II:70:465
Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313:10241
Heated Discharge from Flume into Tank, Heinz Stefan and Frank R. Schiebe, SA6:Dec 70:1415:7762
Hydraulic Model Experiment On Waste Diffusion In Tokyo Bay, Tonia Eemura, Masamitsu Onitsuka, Hiroshi Fukao and Fumio Yamaguchi, CEO-II:70:247
Hydraulics and Thermal Dispersion in an Irregular Estuary, Ralph R. Boericke and Darryl W. Hall, HY1:Jan 74:85:10282
Influence of Sediments on Transport of Solutes, Earnest F. Gloyna, HY4:July 69:1347:6699
Lateral Spreading of Heated Discharge, John C. Sonnichsen, Jr., PO3:July 71:623:8245
Longitudinal Dispersion in Saturated Porous Media, Miguel A. Marino, HY1:Jan 74:151:10296
Longitudinal Dispersion of Bed-Material Particles, Chih Ted Yang and William W. Sayre, HY7:July 71:907:8228
A Mathematical Model for Salinity Intrusion, A. Y. Kuo and Ching S. Fang, CE13:72:III-2265
Maximum Entropy Mixing in Estuaries, Dominic M. Di Toro, TE4:July 69:1247:6885
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165:9768
New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770
Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589
Predicting Concentration Profiles in Open Channels, Harvey E. Jobson and William W. Sayre, HY10:Oct 70:1983:7618
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856
Prediction of Power Plant Emission Impacts, Michael D. Williams and Eric G. Walther, EPCE:Aug 74:601
Radial Dispersion in Ground-Water Flow, Bruce W. Hunt, EM6:Dec 74:1117:10998
Reproduction of Physical Processes in Coastal Areas, Hans-Gerhard Ramming, CE13:72:III-2197
Simple Method for Predicting Dispersion in Streams, Raul S. McQuivey and Thomas N. Keefer, EE4:Aug 74:997:10708
Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056
Stochastic Model For Sand Dispersion, Chih Ted Yang and William W. Sayre, HY2:Feb 71:265:7892
Surface Disturbance from Submerged Jet, Norbert L. Ackermann, Rafael T. Apostol and Suvit Siriyong, HY7:July 71:937:8236
Thermal Power Plant Environmental Studies, M. J. Doyle, Jr. and Ramon F. Cayot, CE13:72:III-2075

Transport Equation Stability and Estuary Modeling, Fred G. Haag and Keith W. Bedford, HY12:Dec 71:2051:8610

Transverse Dispersion in Oscillatory Channel Flow, Peter R.B. Ward, HY6:June 74:755:10589

Turbulent Diffusion and Schmidt Number of Particles, Michael K. Householder and Victor W. Goldschmidt, EM6:Dec 69:1345:6961

Unified View of Diffusion and Dispersion, Edward R. Holley, HY2:Mar 69:621:6462

Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109

Vertical Transfer in Open Channel Flow, Harvey E. Jobson and William W. Sayre, HY3:Mar 70:703:7148

Dispersions

Critical Oxygen Deficit for Bank Outfall, Omar E. Rood, Jr. and Edward R. Holley, EE3:June 74:661:10585

Design Principles of Waste Stabilization Ponds, D. Thirumurthi, SA2:Apr 69:311:6515

Dispersion in Homogeneous Estuary Flow, Edward R. Holley, Donald R.F. Harleman and Hugo B. Fischer, HY8:Aug 70:1691:7488

Hydraulic Treatment Efficiency of Waste Stabilization, Kenneth A. Mangelson and Gary Z. Watters, SA2:Apr 72:407:8849

Integrating-Float Measurements in Turbulent Flows, Henry Liu and Charles D. Morris, HY2:Feb 70:565:7101

Longitudinal Dispersion in Open Channels, Attila A. Sooky, HY4:July 69:1327:6697

Predicting Effects of Dead Zones on Stream Mixing, Edward L. Thackston and Karl B. Schnelle, Jr., SA2:Apr 70:319:7218

Sediment Dispersion in Flow with Moving Boundaries, Cheng-lung Chen, HY8:Aug 71:1181:8287

Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9:Sept 73:1531:10004

Displacement

Analysis and Behaviour of a Concrete Cutoff Wall (In Spanish), Jesus Alberro A., 4PCSM:71:II275

Analysis of a High Gravity Retaining Wall, Fred H. Kulhawy, GT74:June 74:159

Analysis of Circular Footings on Layered Soils, Chandrakant S. Desai and Lymon C. Reese, SM4:July 70:1289:7408

Analysis of Undrained Behavior of Loads on Clay, Richard M. Simon, John T. Christian and Charles C. Ladd, GT74:June 74:51

Axisymmetric Stresses and Displacements in Thick-Walled Elastic Torus, David J. McGill and Ira H. Rapp, III, TN: EM3:June 73:629:9765

Benefits of Tunnel Measurements, Larry H. Heflin, EFSE:Aug 74:366

Causes of the Failure of the Malpasset Dam, Michel A. Carlier, EFFD:Mar 74:5

Corps of Engineers Dam Inspection Program, James A. Rhodes, IMROD:Sept 73:61

Earth Responses in Soft Ground Tunnelling, Peter M. Rebull, PES:72:I-1517

Efficient Reanalysis of Modified Structures, EC5:70:619

Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421

Finite Element Analysis Of Skew Sandwich Plates, Gerard R. Monforton and Mofreh G. Michail, TN: EM3:June 72:763:8931

Inelastic Finite Deformation of Planar Frames, Raouf A. Ridha and Lawrence H. N. Lee, EM3:June 71:773:8198

Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232

Method for Predicting Initial Settlement, David J. D'Appolonia and T. William Lambe, SM2:Mar 70:523:7167

Model Test and Analysis of Oblique Folded Plate Structure, James N. Siddall, Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043:9772

Multiple Configuration Analysis Via Mixed Method, Ahmed K. Noor, TN: ST9:Sept 74:1991:10775

Performance of Two Slurry Wall Systems in Chicago, James A. Cunningham and Jose I. Fernandez, PES:72:I-1425

The Rupture Figure for a Double Wall Cofferdam, B. K. Mazurkiewicz, PES:72:I-1271

Settlements Near Excavations (In Spanish), Jesus Alberro A., 4PCSM:71:II211

Some Orthotropic Skew Plate Finite Element Results, Gerard R. Monforton, TN: ST4:Apr 72:955:8838

Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25

Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823:9095

Yielding in Framed Structures Under Dynamic Loads, Navin C. Nigam, EM5:Oct 70:687:7613

Displacements

Development and Potentials of Moire Method of Strain Analysis for Rock Testing, Kuppusamy Thirumalai and R. L. Fischer, RM13:72:727

Displacements and Stresses in Nonhomogeneous Solid, Manoon F. Chuaprasert and Mumtaz K. Kassir, EM5:Oct 74:861:10868

Field Measurements at La Angostura Cofferdams, Luis Ramirez De Arellano and Edmundo Moreno Gomez, PES:72:I-779

Large Displacement Analysis of Thin Plates, James Colville, Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593

A Model Study on the Slope Stability Around an Open Pit, Y. S. Kim and R. R. Dimock, Jr., RM13:72:201

Nonlinear Analysis of Space Trusses, Ahmed K. Noor, ST3:Mar 74:533:10419

Predicted and Meausred Displacements for Tunnels, William R. Judd and William H. Perloff, URC:72:487

Rheologic Aspects of Rock Slope Failure, C. D. Broadbent and K. C. Ko, RM13:72:573

Rock Engineering for Underground Caverns, Edward J. Cording, Alfred J. Hendron, Jr. and Don U. Deere, URC:72:567

"Room and Pillar" Structures in Competent Rock, Francois E. Heuze and Richard E. Goodman, URC:72:531

Seasonal Deformation of 2-Mile Straight Line, Joseph J. Spranza and Amos M. Nur, SM12:Dec 71:1623:8586

Stress-Strain Analysis of El Infiernillo Dam, Jesus Alberro A., PES:72:I-837

Display Devices

Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742

Disposal

Management of Waste Fluids in Salaquifers, Raphael G. Kazmann, Oscar K. Kimbler and Walter R. Whitehead, IR4:Dec 74:413:10991

Sedimentation Engineering, Chapter VI: Economic Aspects of Sedimentation, Vito A. Vanoni, Chmn., HY1:Jan 69:191:6334

Disposal Wells

Disposal Well Problems in Chicago and Bakersfield Areas, Ralph G. Berk, SA5:Oct 71:675:8405

Dissipation

Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295

Propagation of Waves in Dissipative Media, Burak Erman, Fuat Guzaltan and Attila Askar, TN: GT12:Dec 74:1321:10981

Work-Energy Equation for the Streamline, Hunter Rouse, HY5:May 70:1179:7300

Dissipation Factor

Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235

Dissolved Gases

Monitors Solve Fish-kill Mystery, Bruce R. Barrett, CE:Jan 71:40

Dissolved Oxygen

Aeration System for Large Navigable Rivers, William Whipple, Jr. and Shaw L. Yu, SA6:Dec 71:883: 8601

Consumers Water Quality Index, Thomas M. Walski and Frank L. Parker, EE3:June 74:593:10601

Critical Oxygen Deficit for Bank Outfall, Omar E. Rood, Jr. and Edward R. Holley, EE3:June 74:661: 10585

Dissolved Oxygen Variations in Stratified Lakes, David A. Bella, SA5:Oct 70:1129:7628

DO-Sag in Oscillating Flow, Wen-Hsiung Li and Michael Edwin Kozlowski, EE4:Aug 74:837:10713

Downflow Bubble Contact Aeration, Richard E. Speece, Marcos Madrid and Kenneth Needham, SA4:Aug 71:433:8278

Effects of Dispersion on DO-sag in Uniform Flow, Wen-Hsiung Li, SA1:Feb 72:169:8743

Graphic Dissolved Oxygen Computation, Neal P. Dixon, CE:Mar 71:60

Impoundment and Temperature Effect on Waste Assimilation, Peter A. Krenkel, Edward L. Thackston and Frank L. Parker, SA1:Feb 69:37: 6406

Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909: 10208

Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045

Photosynthesis and Oxygen Balance in Streams, Donald J. O'Connor and Dominic M. Di Toro, SA2:Apr 70:547:7240

Plant Performance Using Dissolved Oxygen Control, Joseph F. Roesler, EE5:Oct 74:1069:10841

Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65: 8984

Reaeration Measurements in an Estuarn, David W. Juliano, SA6:Dec 69:1165:6987

Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4: Aug 73:479:9943

Statistical Assessment of DO in Navigation Pool, Thomas A. Butts, Donald H. Schnepper and Ralph L. Evans, SA2:Apr 70:477:7235

Stochastic Model for BOD and DO in Estuaries, Stephen W. Custer and Richard G. Krutchkoff, SA5:Oct 69:865:6834

Dissolved Solids

Scientific and Administrative Criteria for Shallow Waste Disposal, George M. Hughes and Keros Cartwright, CE:Mar 72:70

Distance Measuring Equipment

Advancing Technology in Electronic Surveying, Charles G. Romaniello, SU2:Sept 70:287:7566

Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Vito A. Vanoni, Chmn., HY12: Dec 70:2417:7781

DI-10 Distomat System, E. Kenneth Reynolds, SU2: Sept 70:137:7518

Map Control by Electronic Surveys, William A. McLaughlin, SU1:Apr 70:81:7226

New Distance Measuring Instruments, Raymond W. Tomlinson, SU2:Sept 70:149:7521

New Zeiss Electro-Optical Instrumentation, Dieter F. Schellens, SU2:Sept 70:173:7526

Short-range EDM: Big Boost for Surveyors, Eugene E. Dallaire, CE:Feb 71:69

Sound Time-Lag Measurement for Distance Determination, L. R. Morgan and T. L. Morgan, CE:Feb 69:58

Tacheometry in Survey Engineering, Joe E. Colcord, SU1:May 71:39:8141

Tellurometer Ground Swing Over Ice Surface, Thomas A. Asbeck and James L. Clapp, SU1:May 71:53:8149

Distortion

Analysis and Prediction of Photogrammetric Residual Errors, Kunwar K. Rampal, SU1:May 74:33:10515

Warping and Distortion at I-Section Joints, Porpan Vacharajittiphan and Nicholas S. Trahair, ST3:Mar 74:547:10390

Distribution

Extreme Wave Height Distributions Over Oceans, Herbert C.S. Thom, WW3:Aug 73:355:9939

Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860

Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181

Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73: 1551:10033

Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346

Distribution Functions

Distribution Of Response To Simulated Earthquakes, Paul H. Wirsching and James T.P. Yao, TN: EM4: Aug 70:515:7444

Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002

Numerical Approximation For Reliability Analysis, Niels C. Lind, TN: ST3:Mar 72:797:8755

Probability Distributions For Hurricane Effects, Larry R. Russell, CEO-II:70:835

Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169

Distribution Patterns

Distributions of Extreme Winds Over Oceans, Herbert C.S. Thom, WW1:Feb 73:1:9556

Distribution Systems

Capital Cost Minimization of Hydraulic Network, Ralf G. Cembrowicz and Joseph J. Harrington, HY3:Mar 73:431:9606

Developments in Water System Network Design, V. Raman, SA5:Oct 70:1249:7612

Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588

Ditches

Model Study of Boundary Effects on Ditch Drainage Division, Eugene W. Rochester, Jr., IR4:Dec 68: 493:6313

Seepage from Recharge and Landfill Ditches, Paul A. Witherspoon and T. N. Narasimhan, IR73:Aug 73: 39

Sludges and Associated Problems Involving Agricultural Drains in Florida Wetlands, Harry W. Ford, SEA:70:15

Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Diversion

Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089

Diversion Structures

Organizational Alternatives in Consolidating Irrigation Systems, Evan Vlachos, OIDS:72:317

Diversion Works

Hydraulics of a Gravel-Core Fish Screen, Ronald E. Nece and Milo C. Bell, HYB:Aug 73:31

Diving

New Role of Engineers as Trained Divers, Thomas E. Morris, IRS:Sept 72:257

Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66

Diving Suits
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66

Docks
Avalon Transportation Wharf, James W. Dunham, WW2:May 71:371:8104
Density Currents and Turbulent Diffusion in Locks, A. Roy Halliwell and Martin O'Dell, 12CEC:71: 1959
Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
Multipurpose Land-Water Transfer Facility, C. Adrian Arnold, WW2:May 72:253:8903
Newtown Creek Docking Facilities, George Netch, CE:June 69:64
Prestressed Concrete Simplifies Construction of Breakwater/Wharf, C. A. Ponder and P. S. Belyea, CE:Jan 69:58
1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389

Documentation
Engineering Computer Program Documentation Standards, G. Andrew Reti, Chmn., SM3:Mar 73: 249:9614
Guide to Development and Use of Electronic Computer Programs: Documentation, Francis E. Swain, ST9:Sept 69:1825:6760

Document Storage
Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132

Dolphins (Structures)
Rational Design Concept for Breasting Dolphins, Lymon C. Reese, Michael W. O'Neill and N. Radhakrishnan, WW2:May 70:433:7291
Wave Force on a Vessel Tied at Offshore Dolphins, Yoshimi Goda and Tomotsuka Yoshimura, CE13: 72:III-1723

Domes (Structural)
Stability of Shells by Parametric Differentiation, S. K. Radhamohan, Achyut V. Setlur and John E. Goldberg, ST6:June 71:1775:8216

Domes (Structural Forms)
The Baseball Diamond -- A Gridiron's Best Friend, Thomas C. Kavanagh, CEWAU:74:81
Dynamics of Impulsively Loaded Circular Plates, Robert J. Green, EM2:Apr 71:413:8079
Experimental Study of Buckling of Buried Domes, Zvi Getzler and L. Lupu, SM2:Mar 69:605:6476
The Louisiana Superdome; World's Most Versatile Building, Mark C. Carrigan, CE:Nov 74:50
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Planning and Construction of an Ellipsoidal Dome, Joseph F. West, CO2:Oct 68:113:6129
Prestress System for Nuclear Concrete Containment Domes, King-Yuen Chu, PO1:July 74:111:10687
Reticulated Space Structures, James O. Crooker and Kenneth P. Buchert, ST3:Mar 70:687:7180
Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999: 10096
Stability of Spaceframes, Mehdi S. Zarghamee and Jayant M. Shah, EM2:Apr 68:371:5878

Domestic Wastes
Household Wastewater Characterization, Kenneth Ligman, Neil Hutzler and William C. Boyle, EE1: Feb 74:201:10372

Douglas Fir Wood
Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623
Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73: 1205:9788

Dowels
Analysis of Dowel Action, David W. Johnston and Paul Zia, ST5:May 71:1611:8147

Drafting (Drawing)
Computer Aids Draftsmen in Soil Profiles and Analysis, George Kisak and B. James Greenfield, CE:Feb 71:67
Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31
Current Practices in Drafting, Reproduction and Storage of Engineering Drawings, Eugene E. Dallaire, CE:Jan 74:73
Drafting Transformed by Plotter, Computer and Digitizer, Kenneth W. Nonnenman, CE:Feb 74:48
Reproducing And Storing Engineering Drawings, Eugene E. Dallaire, CE:Mar 74:45

Draft-Storage Curves
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214

Draft Tubes
Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, Donald C. Raney and Terry G. Arnold, PO1:May 73:139:9707
Grand Coulee 3rd Powerplant — Units 22, 23 and 24, James F. Meyers, EPCE:Aug 74:413

Drag
Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809
Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483
Drag Coefficient of Cylinders in Turbulent Flow, Stephen C. Ko and Walter H. Graf, HY5:May 72: 897:8920
Drag Coefficients in Nonsteady Turbulent Flow, Alex J. Sutherland and David J. Painter, HY7:July 71: 1031:8233
Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697
Drag Reduction in Hydraulic Transport of Solid, Michael Poreh, Jacques L. Zakin, Aviel Brosh and Moshe Warshavsky, HY4:Apr 70:903:7208
Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
Effect of Blockage on Steady Force Coefficients, Amruthur S. Ramamurthy and C. P. Ng, EM4:Aug 73:755:9905
Experimental Investigation of Form of Bed-Roughness, Sat Dev Khanna, HY10:Oct 70:2029: 7623
Forces From Submerged Jets, Norbert L. Ackermann and Rodolfo Undan, HY11:Nov 70:2231:7675
Free Surface, Velocity Gradient Flow Past Hemisphere, Gordon H. Flammer, J. Paul Tullis and Earl S. Mason, HY7:July 70:1485:7418
Influence of Secondary Flow on Drag Force, Charles Dalton and Frank D. Masch, EM5:Oct 68:1249: 6193
Linearized Non-Stokesian Drag in Turbulent Flow, Barclay G. Jones, Raymond J. Ostensen and Charles C. Meek, TN: EM1:Feb 73:233:9528
Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB: Aug 73:43
A Procedure For Automating Aircraft Wing Structural Design, Gary L. Giles, EC5:70:125
Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846
Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235
Water Current Meter for Mean Flow Measurements, David Smith, 12CEC:71:1903

Wave Force on a Platform with a Ribbed Bottom, Keith H. Denson and Melville S. Priest, CE13:72: III-1759

Drainage

Analysis of Canal Seepage to Interceptor Drain, Heramb D. Sharma and Amrik S. Chawla, IR3:Sept 74:351:10819

Analysis of Infiltration into Draining Porous Media, Frank D. Whisler and Keith K. Watson, IR4:Dec 69:481:6946

Analysis of Sprinkler Irrigation Losses, Yaron M. Sternberg, IR4:Dec 67:111:5672

Analytical Model for Management of Alluvial Aquifers, Raziq Qazi and Jeris Danielson, IR2:June 74:143:10627

Application of PL-566 to Drainage Problem, Paul Tilker, IRS:Sept 72:17

Approximate Solution for Unconfined Seepage, Chandrakant S. Desai, IR1:Mar 73:71:9607

Arizona Weather Modification Research Program, Paul B. MacCready, Jr., IR2:June 70:103:7324

Artificial Playing Surface, Jim Clifton, CEWAU:74: 90

Art of Agricultural Drainage Design and Costs, Ralph L. Toren, IR73:Aug 73:557

Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566

Atlanta's Instant Runway, Robert W. Richards, TE3: Aug 71:491:8306

Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760

Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67

Biological Control of Aquatic Weeds, Robert D. Blackburn, David L. Sutton and Thomas Taylor, IR3:Sept 71:421:8362

Capital Cost Minimization of Drainage Networks, Jarir S. Dajani and Yakir Hasit, EE2:Apr 74:325: 10448

Change in Quality of Pumped Drainage Effluent, Enos J. Carlson, IR73:Aug 73:195

Changing Crop Priorities and Drainage Requirements, John C. Nibler and Royal H. Brooks, IRS:Sept 72:25

Channel Slope Effect on Peak Discharge of Natural Streams, Charles L. Armentrout and Robert B. Bissell, HY2:Feb 70:307:7052

Closed Conduit to Open Channel Stilling Basin, Gordon H. Flammer, Gaylord V. Skogerboe and Chi-Yuan Wei, IR1:Mar 70:1:7124

Computer Analysis of Free Surface Well Flow, Willem F. Brutsaert, E. Allen Breitenbach and Daniel K. Sunada, IR3:Sept 71:405:8376

Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578

Concrete Pipe Culvert Behavior - Part 2, Raymond Eugene Davis and Alfred E. Bacher, ST3:Mar 74: 615:10408

Concrete Pipe Culvert Behavior—Part 1, Raymond Eugene Davis, Alfred E. Bacher and John C. Obermuller, ST3:Mar 74:599:10404

Consolidation of Clay Layer in Two Dimensions, Sivajogi D. Koppula and Norbert R. Morgenstern, SM1:Jan 72:79:8674

Consumptive Use Derived From Evaporation Pan Data, George H. Hargreaves, IR1:Mar 68:97:5863

Control of Sediment Flow Into Subsurface Drains, Om P. Gulati, Glenn O. Schwab and Ronald C. Reeve, IR4:Dec 70:437:7751

Cultural Influences on Irrigation Drainage Water, J. R. Busch, D. W. Fitzsimmons, G. C. Lewis, D. V. Naylor and R. D. Carlson, IRS:Sept 72:45

Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918

Dangers of Parallel-Bar Sewer Grates to Bicyclists, David Whitman, BP73:Dec 73:383

Depth to Ground-Water Table by Remote Sensing, Mohamed Abdel-Hady and Harlan H. Karbs, IR3: Sept 71:355:8360

Deterioration of Concrete Ditch Liners in Saline-Alkali Soil, Luther B. Grass and Paul Koluvek, IR4: Dec 74:477:10997

Determining Streamflows from Geomorphic Parameters, John F. Orsborn, IR4:Dec 74:455: 10986

Displacement Front Under Ponded Leaching, James N. Luthin, Pedro Fernandez, B. Maslov, J. Woerner and Frank E. Robinson, IR1:Mar 69:117:6446

Distribution of Pesticides in California, Thomas E. Bailey and John R. Hannum, SA5:Oct 67:27:5510

Drainage Analysis of a Confining Formation, Leo C. Benz and Eugene J. Doering, IR73:Aug 73:225

Drainage and Pollution from Beef Cattle Feedlots, Raymond C. Loehr, SA6:Dec 70:1295:7726

Drainage Density in Drift-Covered Basins, John F. Orsborn, HY1:Jan 70:183:7033

Drainage in Soils with Initial Gradient, Arun J. Valsangkar and Kanakatti Subramanya, IR2:June 72:309:8995

Drainage of Soil Profiles, Royal H. Brooks, Corey Benedict, Gilbert L. Corey and Arthur T. Cores, IR3:Sept 71:455:8389

Drainage System Design and Analysis by Computer, Dean M. Renner and Charles C. Mueller, IR3:Sept 74:255:10801

Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72: 433:9219

Ecological Impacts of Water Projects in California, Robert M. Hagan and Edwin B. Roberts, IR1:Mar 72:25:8780

Effect of Backfill on Drain Flow in Layered Soils, Ralph B. Hwang, James N. Luthin and George S. Taylor, IR3:Sept 74:267:10797

Effect Of Cultural Practices On Water Resources, Cortland E. Young, SEA:70:77

Effect of Openings on Design of Subsurface Drains, Glenn O. Schwab, Darrell W. DeBoer and Howard P. Johnson, IR1:Mar 69:199:6480

Effect of Snow Cover on Upward Movement of Soil Moisture, Eugene L. Peck, IR4:Dec 74:405:10989

Effect of Unit Weight and Slope on Erosion, Richard L. Foster and L. Glen Martin, IR4:Dec 69:551: 6984

Effects of Farming—Urban Drainage on Fresh Water, C. W. Sheffield and William M. Bishop, IR73:Aug 73:691

Effects of Surface Drainage on Stream Flow, H. N. McGill, Allyn C. Bennett, Wendell B. Moody and Gene C. Vittetoe, IR73:Aug 73:501

Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46

Energy Loss at Pipe Junctions, Fred W. Blaisdell and Philip W. Manson, IR3:Sept 67:59:5411

An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255

Engineer's Notebook: Preliminary Flow Profiles For Highway Engineers, Eugene Allen Gulliver, CE: Dec 73:49

Entry Velocity Control Limits Drain Sedimentation, Lyman S. Willardson, L. Fouss, Ronald C. Reeve and Norman R. Fausey, IR4:Dec 68:455:6300

Established Surge on an Impervious Vegetated Bed, W. P.J. Wessels, IR1:Mar 68:1:5832

Estimating Soil Permeability Rates, Merlin E. Horn, IR2:June 71:263:8169

Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395

Estimation of Rainfall Erosion Index, John K.H. Ateshian, IR3:Sept 74:293:10817

Estimation of Washload Produced on Certain Small Watersheds, Oswald Rendon-Herrero, HY7:July 74: 835:10638

Evaluation of Agricultural Drainage in Water Quality Management, T. Clark Lyons, Dwight P. Russell and Roger G. Fry, IR73:Aug 73:529

Evaporation Reduction with Floating Granular Materials, Lloyd E. Myers and Gary W. Frasier, IR4:Dec 70:425:7741

Exotic Uses of Aquifers, Raphael G. Kazmann, IR3: Sept 71:515:8352
Falling Water Table Between Tile Drains, Dirk E. L. Maasland and R. A. Shery, IR2:June 67:9:5258
Friction Factors for Corrugated Plastic Tubing, Lee F. Hermsmeier and Lyman S. Willardson, IR3:Sept 70:265:7531
Future of Ground Water in African Sahara Desert, Hammad Y. Hammad, IR4:Dec 69:563:6986
Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438
General Statement of Principles to be Included in State Water Rights Laws, Floyd A. Bishop, Chmn., IR2:June 72:317:8996
Ghanats of Iran: Drainage of Sloping Aquifer, Mohammed Bybordi, IR3:Sept 74:245:10785
Graphic Analysis of Roadway Runoff, James B. Wolfson, CE:June 71:64
Ground Water Management-A Progress Report, Jack J. Coe, SEA:70:105
Ground Water Management-A Progress Report, Jack J. Coe, IR1:Mar 71:149:7971
The Highway Engineer on Trial, Paul W. Clark, CE: Sept 73:60
Hydraulics of Spatially Varied Pipe Flow, Walter W. Hu, HY6:Nov 67:281:5599
Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
Impacts of Colorado River Salinity, Vernon E. Valantine, IR4:Dec 74:495:10985
Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73: 519:10188
Interdistrict Apportionment of Flood Control Costs, Richard R. Dague, E. Robert Baumann and Paul E. Morgan, IR4:Dec 68:441:6298
Interior Drainage Design for Hurricane Protection Projects, Donald Van Sickle, HY2:Mar 68:455:5858
Irrigating with Cut-Back Furrow Streams, John G. Sakkas and William E. Hart, IR1:Mar 68:91:5852
Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3: Sept 72:363:9183
KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41
Liaison-Key to Highway and Agricultural Drainage Programs, Carroll J.W. Drablos and Benjamin A. Jones, Jr., IR1:Mar 69:185:6479
Maintenance of Bicycle Facilities - An Overview, Thomas A. Gawley and Walter H. Kraft, BP73:Dec 73:143
Management of Ephemeral Stream Channels, Herbert B. Osborn and Kenneth G. Renard, IR3:Sept 73: 207:10005
Management of Waste Fluids in Salaquifers, Raphael G. Kazmann, Oscar K. Kimbler and Walter R. Whitehead, IR4:Dec 74:413:10991
Master Planning Methodology for Urban Drainage, Harold F. Bishop, HY1:Jan 74:189:10290
Mathematical Model of Leaky Aquifer, Robert Bibby and Daniel K. Sunada, IR3:Sept 71:387:8350
Maximum Potential Evapotranspiration Frequency - East Central U.S., J. L. McGuinness and Leslie H. Parmele, IR2:June 72:207:8943
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9: Sept 71:1367:8373
Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72: 1575:9206
Method to Solve Cubic Equation for Depth Below Overfall, Sat Dev Khanna, TN: IR1:Mar 74:103: 10383
The Metropolis Runs Dry, Richard A. Hogarty, IR4: Dec 71:559:8563
A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171: 9034
Movement of Salts in Ponded Anisotropic Soils, Jaime Ortiz and James N. Luthin, IR3:Sept 70:257: 7530
Moving Water Tables in Tile-Drained Soils, Nazar M. Awan and Terence O'Donnell, IR3:Sept 72:459: 9167
Need for Envelope Material Above Draintile, Robert W. Saulmon, TN: IR4:Dec 71:661:8560
New Concepts in Suburban Drainage in Florida, Kenneth A. Bryant, Jr. and James N. Krider, IR73: Aug 73:471
New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956
New Town Planned Around Environmental Aspects, Ralph C. Everhart, CE:Sept 73:69
Numerical Analysis of Free Surface Seepage Problems, Peter W. France, Chandrakant J. Parekh, John C. Peters and Cedric Taylor, IR1:Mar 71:165: 7959
Opening Remarks, Gerald Palevsky, CEWAU:74:138
Operation and Maintenance of Irrigation and Drainage Systems: Section I--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71: 601:8613
Operation and Maintenance of Irrigation and Drainage Systems, Robert L. Taylor, Chmn., IR3: Sept 73:237:10014
Optimal Design for Highway Drainage Culverts, George K. Young, Jr., Mitchell R. Childrey and Roy E. Trent, HY7:July 74:971:10676
Optimal Pumping for Aquifer Dewatering, Eduardo Aguado, Irwin Remson, Mary F. Pikul and Will A. Thomas, HY7:July 74:869:10639
Peat and Muck Drainage Problems, John C. Stephens, IR2:June 69:285:6603
Pennsylvania Erases Its Mining Scars, Alfred C. Ackenheil, CE:Oct 70:54
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
The Perimeter Canal—A New Approach to Discharge Urban Water into a Coastal Mangrove Area, Charles H. King, Jr. and Gerald M. Ward, IR73:Aug 73:99
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72: 927:9443
A Perspective on Weather Control, Richard A. Schleusener, IR1:Mar 68:73:5845
Phreatic Surface Location after Drawdown, Arthur H. Dvinoff and Milton E. Harr, SM1:Jan 71:47: 7806
Physics of Desaturation in Porous Materials, Nikolas F. White, Harold R. Duke, Daniel K. Sunada and Arthur T. Corey, IR2:June 70:165:7376
Planning and Control of Combined Sewerage Systems, William R. Giessner, Robert T. Cockburn, Frank H. Moss, Jr. and Mark E. Noonan, EE4:Aug 74:1013:10744
Planning and Interpreting Soil Permeability Measurements, Herman Bouwer, IR3:Sept 69:391: 6775
Planning Standards for Storm Drainage, Myron D. Calkins, UP1:Mar 70:53:7133
Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787
Predicting Return Flows From Irrigation, Patrick A. Hurley, IR1:Mar 68:41:5838
Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543: 9422
Probability Distribution of Annual Droughts, Eratakulan S. Joseph, IR4:Dec 70:461:7727
Programming for Pavlovsky's Ground-Water Problem, George T. Papadopoulos and Joakim G. Laguros, IR1:Mar 68:49:5840
Pump Drainage in Carolina Bays, Coy W. Doty, IR4: Dec 73:465:10244
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964
Rational 'Rational' Method of Storm Drainage Design, Richard A. Rogers, IR4:Dec 68:465:6301

Rectangular Cutthroat Flow Measuring Flumes, Gaylord V. Skogerboe and M. Leon Hyatt, IR:Dec 67:1:5628
Reducing Pond Evaporation with Perlite Ore, Keith R. Cooley and C. Brent Cluff, IR2:June 72:255: 8953
Reduction of Urban Runoff Peak Flows by Ponding, Leonard Rice, IR3:Sept 71:469:8351
Rehabilitation of Irrigation System, Ray S. Bennett and Charles F. Lurvey, IRS:Sept 72:151
Remote Photographic Acquisition of Data, E. Gordon Kruse and Meredith L. Payne, TN: IR4: Dec 70:503:7752
Research on Sleepers River at Danville, Vermont, Martin L. Johnson, IR1:Mar 70:67:7184
Responsibility in Weather Modification Operation, Merlin C. Williams and Richard A. Schleusener, IR1:Mar 70:61:7171
Restoring Subsurface Drain Performance, Luther B. Grass and Arnold J. MacKenzie, IR1:Mar 72:97: 8759
Reverse and Direct Reservoir Routing Method Sets Highway Grade, Constantine Voutyras, CE:Oct 69: 56
Rigid Urethane Foam Cures Roof Leakage, Bruce C. Gandy, CE:July 73:73
Role of Ground Water in Texas Water Plan, Richard C. Peckham, IR1:Mar 68:137:5874
Runoff Grouping for Detection of Change in Runoff, Hiroshi Nakamichi and Hubert J. Morel-Seytoux, IR2:June 71:275:8201
Safe Yield of Aquifers: An Economic Reformulation, Robert A. Young, IR4:Dec 70:377:7719
Salt and Water Balance in Coachella Valley, California, Charles A. Bower, James R. Spencer and L. O. Weeks, IR1:Mar 69:55:6437
Sealing Sands with Waterborne Bentonite, Myron B. Rollins, IR4:Dec 67:25:5640
Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171
Sediment Distribution and Its Relations to Circulation Patterns in Bolinas Bay, California, P. Wilde and T. Yancey, 12CEC:71:1397
Seepage Effect on Channel Bank Stability, Philip H. Burgi and Susumu Karaki, IR1:Mar 71:59:7968
Seepage from Trenches Through Nonhomogeneous Soils, Ahmed El Nimur and Robert L. Street, IR1: Mar 72:13:8777
Seepage Towards Highway Cuts, Abdel-Aziz I. Kashef, TE4:Nov 69:667:6912
Simulation of Water Yield from Devegetated Basins, George Fleming, IR2:June 71:249:8175
Sludges and Associated Problems Involving Agricultural Drains in Florida Wetlands, Harry W. Ford, SEA:70:15
Some Applications of Drainage Experience, William O. Watson, IRS:Sept 72:1
Some Environmental Effects of Drainage in Florida, William V. Storch and Robert L. Taylor, IR1:Mar 69:139:6460
Stability Studies of a Footwall Slope in Layered Coal Deposit, C. O. Brawner, D. L. Pentz and J. C. Sharp, RM13:72:329
Stabilized Base for Residential Streets, Wesley J. Gallup, CE:May 69:40
State Water Rights Laws, William R. Walker, IR4: Dec 73:449:10217
Status of Pilot Watershed Studies in Arizona, Harry E. Brown, IR1:Mar 70:11:7129
Steady Drainage of Layered Soils: II, Nomographs, Sadik Toksoz and Don Kirkham, IR1:Mar 71:19: 7986
Steady Drainage of Layered Soils: I, Theory, Sadik Toksoz and Don Kirkham, IR1:Mar 71:1:7985
Storm Drainage Practices of Thirty-two Cities, Colby V. Ardis, Kenneth J. Dueker and Arno T. Lenz, HY1:Jan 69:383:6365
Subsurface Drainage by Transient-Flow Theory, Lee D. Dumm, IR4:Dec 68:505:6315
Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375: 10013
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
Subsurfqce Drainage Solutions by Galerkin's Method, Purushottam Dass and Hubert J. Morel-Seytoux, IR1:Mar 74:1:10397
Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659
Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457: 10243
Tools for Water-Resource Study, Julius H. Dawes, IR4:Dec 70:403:7720
Transient Functions for Land Drainage, S. Abdollah Jenab, A. Alvin Bishop and Dean F. Peterson, IR3: Sept 69:361:6768
Unsteady Flow to Bottom Drain in Bounded Aquifer, Raymond J. Krizek, Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807
Unsteady Seepage Toward Narrow Ditch, Bruce W. Hunt, HY10:Oct 70:1953:7586
Urbanization's Drainage Consequence, Paul O. Reimer and Joseph B. Franzini, UP2:Dec 71:217: 8600
Urban Runoff by Road Research Laboratory Method, Michael L. Terstriep and John B. Stall, HY6:Nov 69:1809:6878
Volume of Snowmelt Intercepted by Logging Roads, Edward R. Burroughs, Jr., Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770
Water Accounting at Pumping Station S-5A in Florida, Claiborne F. Galliher, IR4:Dec 69:517: 6970
Water and Pavement Performance, Harry R. Cedergren and Kneeland A. Godfrey, Jr., CE:Sept 74:78
Water Infiltration in Hawaiian Sugarcane Furrows, Harlan G. Collins and Robert B. Campbell, IR4: Dec 67:81:5669
Water Management Through Irrigation and Drainage: Progress, Problems, and Opportunities, by the Committee on Research of the Irrigation and Drainage Division, Jan van Schilfgaarde, Chmn., IR2:June 74:153:10619
Watershed as Semiinfinite Storage Reservoir, Vit Klemes, IR4:Dec 73:477:10213
Weed Control in Arid Southwest, James W. Kirby and A. Darrell Summers, IR4:Dec 71:571:8570
Well Capacity for Continuous Permeability Variation, Raymond J. Krizek, Wallace H. Baker and Arley G. Franklin, IR3:Sept 69:409:6785
Well Efficiency and Skin Effect, Yaron M. Sternberg, TN: IR2:June 73:203:9766

Drainage Basins

Computer Modelling of a Coniferous Forest Watershed, George B. Shih, Richard H. Hawkins and Melvin D. Chambers, IRS:Sept 72:433

Drainage Engineering

Effect of Backfill on Drain Flow in Layered Soils, Ralph B. Hwang, James N. Luthin and George S. Taylor, IR3:Sept 74:267:10797

Drainage Systems

Art of Agricultural Drainage Design and Costs, Ralph L. Toren, IR73:Aug 73:557
Drainage System Design and Analysis by Computer, Dean M. Renner and Charles C. Mueller, IR3:Sept 74:255:10801
Operation and Maintenance of Irrigation and Drainage Systems, Robert L. Taylor, Chmn., IR3: Sept 73:237:10014
Optimization of an Existing Large Complex Drainage System, N. N. Khanal and Robert L. Hamrick, OIDS:72:503

Drainage Wells

Seepage Control in the Rio Jaguari Dam and Dike, Lincoln de A. Queiroz, Hamilton G. de Oliveira, Ruy Taiji Mori and Francisco Nazario, 4PCSM:71: II293

Drained Shear Tests

Comparison of Stress-Dilatancy Theories, George J. W. King and Edward A. Dickin, SM5:Sept 70:1697:7516
Drained Liquefaction Testing in Simple Shear, Dennison J. Pickering, TN: SM12:Dec 73:1179:10189

Drains

Analysis of Canal Seepage to Interceptor Drain, Heramb D. Sharma and Amrik S. Chawla, IR3:Sept 74:351:10819
Consolidation of Clay Layer in Two Dimensions, Sivajogi D. Koppula and Norbert R. Morgenstern, SM1:Jan 72:79:8674
Control of Sediment Flow Into Subsurface Drains, Om P. Gulati, Glenn O. Schwab and Ronald C. Reeve, IR4:Dec 70:437:7751
Effect of Backfill on Drain Flow in Layered Soils, Ralph B. Hwang, James N. Luthin and George S. Taylor, IR3:Sept 74:267:10797
Effect of Openings on Design of Subsurface Drains, Glenn O. Schwab, Darrell W. DeBoer and Howard P. Johnson, IR1:Mar 69:199:6480
Entry Velocity Control Limits Drain Sedimentation, Lyman S. Willardson, L. Fouss, Ronald C. Reeve and Norman R. Fausey, IR4:Dec 68:455:6300
Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948
Finite Difference Analyses for Sand Drain Problems, Roy E. Olson, David E. Daniel and Thomas K. Liu, GT74:June 74:85
Interceptor Drains in Heavy Clay Soils, Malcolm L. Steinberg, TE1:Feb 70:1:7066
Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435
Model Study of Boundary Effects on Ditch Drainage Division, Eugene W. Rochester, Jr., IR4:Dec 68:493:6313
Need for Envelope Material Above Draintile, Robert W. Saulmon, TN: IR4:Dec 71:661:8560
Restoring Subsurface Drain Performance, Luther B. Grass and Arnold J. MacKenzie, IR1:Mar 72:97:8759
A Review of TVA's Problems and Treatment of Foundations of Existing Dams, Lloyd W. Lundin, IMROD:Sept 73:641
Seepage Through Dams with Horizontal Toe Drain, Mohammad S. Moayeri, SM5:May 72:461:8878
Session III: Densification after Placement (Drains), Steve J. Poulos, PISST:71:43
Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72:211:8737

Drawbridges

Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833

Drawdown

Area and Volume Errors in Reservoir Projects, Antonio M. Aguilar, SU2:Nov 71:287:8538
Iterative Analysis: Bounded Leaky Artesian Aquifer, S. A. Vanden Berg, IR1:Mar 69:1:6431
Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058
Reservoir Storage Evacuation Time by Integration, Edgar T. Moore, CE:Apr 71:42
Dsc, Reservoir Storage Evacuation Time by Integration, Edgar T. Moore, CE:Apr 71:42
Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
Well Efficiency and Skin Effect, Yaron M. Sternberg, TN: IR2:June 73:203:9766

Drawing

Reproducing And Storing Engineering Drawings, Eugene E. Dallaire, CE:Mar 74:45

Drawings

Automatic Drafting System Aids Wisconsin Bridge Design, Leon J. Schuchardt, CE:Feb 70:38
Control of Quality-A System, Edward A. Abdun-Nur, CO2:Oct 70:119:7576
Current Practices in Drafting, Reproduction and Storage of Engineering Drawings, Eugene E. Dallaire, CE:Jan 74:73
Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46
Reproducing And Storing Engineering Drawings, Eugene E. Dallaire, CE:Mar 74:45

Dredges

Coastal Sand Mining in Northern California, U.S.A., Orville T. Magoon, John C. Haugen and Robert L. Sloan, CE13:72:II-1571
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Development and Future of Dredging, Adolph W. Mohr, WW2:May 74:69:10513
Dredging and the Environment: The Plus Side, Thomas M. Turner and Virginia Fairweather, CE:Oct 74:62
San Francisco Bar Dredge Material Disposal, Richard M. Ecker and John F. Sustar, CE13:72:II-913

Dredging

Artificial Sea Ice Structures For Alaskan Ports, Charles E. Behlke and Alexander R. McKay, CEO-II:70:361
Coastal Sand Mining in Northern California, U.S.A., Orville T. Magoon, John C. Haugen and Robert L. Sloan, CE13:72:II-1571
Conquering Conneaut Marsh, Joseph S. Goff, CE:May 69:43
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157
Cyclic Sedimentation in Agua Hediona Lagoon, Southern California, John R. Ritter, TN: WW4:Nov 72:597:9373
Development and Future of Dredging, Adolph W. Mohr, WW2:May 74:69:10513
Dredge Spoil Surveillance In Shellfish Areas, George W. Allen and Donald M. Conlon, CEO-II:70:823
Dredging and the Environment: The Plus Side, Thomas M. Turner and Virginia Fairweather, CE:Oct 74:62
Dredging Fundamentals, John Huston, WW3:Aug 67:45:5390
Dredging Methods For Deep-Ocean Mineral Recovery, John B. Herbich, WW2:May 71:385:8120
Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342
Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265:9757
Evaluation of Harbor Deepening Projects, Sunil K. Bhattacharya and Amarendra N. Biswas, WW1:Feb 73:111:9575
Feasibility of Hydrocyclones for Dredge Spoil, William G. Tiederman and Michael M. Reischman, WW4:Nov 74:361:10953
Hydrographic Survey Techniques on Mississippi, Otis T. Welch, SU1:May 71:109:8123
Methods For Deep-Ocean Mineral Recovery, John B. Herbich, CEO-II:70:297
Mining The Ocean For Beach Sand, Charles H. Fisher, CEO-II:70:717
Model Study of Transformation of Tsunamis in Urado Bay, Shigehisa Nakamura, Yuichi Iwagaki and Yoshito Tsuchiya, 12CEC:71:2089
New Pier in Jamaica Bay, Remig A. Papp, CE:Aug 72:52
Offshore Developments that Minimize Environmental Impact, Charles J. Lord, CO2:June 74:159:10610
Planning and Construction of the Elizabeth N.J. Port Authority Marine Terminal, Anthony J. Tozzoli and John S. Wilson, CE:Jan 69:34
Port Construction At Burns Waterway Harbor, John H. McGavock, Norman R. Loesing and Elvis R. Dye, CO1:Mar 71:17:7990
Sand Fill Pumped 15 Miles for Interstate Construction, John W. Sill, CE:Feb 71:44
San Francisco Bar Dredge Material Disposal, Richard M. Ecker and John F. Sustar, CE13:72:II-913
Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254

Selection of Disposal Areas for Spoil From Baltimore Harbor, John F. Hoffman, 12CEC:71:2267

Drift
Drift Criteria, State-of-Art Report 2, Roy G. Johnston, TB:73:II-17-635
Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267
Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653
Prediction of Near-Surface Drift Currents from Wind Velocity, Jin Wu, HY9:Sept 73:1291:9995
Stability and Drift Problem, State-of-Art Report 3, P. Dayaratnam and Y. C. Das, TB:73:II-15-303
Wind-Generated Current and Phase Speed of Wind Waves, Omar H. Shemdin, CE13:72:I-537

Drift Indicators
Wind-Generated Current and Phase Speed of Wind Waves, Omar H. Shemdin, CE13:72:I-537

Drift Mining
Stability Studies of a Footwall Slope in Layered Coal Deposit, C. O. Brawner, D. L. Pentz and J. C. Sharp, RM13:72:329

Drill Holes
Guide for Depth of Foundation Exploration, Ronald E. Smith, SM2:Mar 70:377:7120

Drilling
Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838
Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40
Flathead Railroad Tunnel Construction, Hans Sacrison, CO1:Mar 71:127:8009
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
Slant Drilled Lake Pump Station, Wilbur F. Gaughan and Robert B. Mitchell, EPCE:Aug 74:391

Drilling Equipment
Slant Drilled Lake Pump Station, Wilbur F. Gaughan and Robert B. Mitchell, EPCE:Aug 74:391

Drilling Fluids
Standard Test Boring with Drilling Mud, Charles S. Hedges, 4PCSM:71:II63

Drilling Rigs
Summary On Studies Of Setting The Self Elevating Drilling Unit "Fuji" On Soft Silty Sea Bed, Y. Arita and Y. Nakao, CEO-II:70:461

Drill Strings
Buckling Frequencies of Long Vertical Pipes, Tseng Huang and D. W. Dareing, EM1:Feb 69:167:6400

Drop Inlets
Crest Losses for Two-Way Drop Inlet, George G. Hebaus, HY3:May 69:919:6570

Drops (Structures)
Flood-Control Facilities for Unique Flood Problems, Ralph F. Wong and Alfonso Robles, Jr., WW1:Feb 71:185:7894

Droughts
Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566
Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72:433:9219
Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73:421:10229
Functions to Predict Optimal Irrigation Programs, J. Ian Stewart, Robert M. Hagan and William O. Pruitt, IR2:June 74:179:10626
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
The Metropolis Runs Dry, Richard A. Hogarty, SEA:70:329
The Metropolis Runs Dry, Richard A. Hogarty, IR4:Dec 71:559:8563
Probability Distribution of Annual Droughts, Eratakulan S. Joseph, IR4:Dec 70:461:7727
Water Deficits -Irrigation Design and Programming, Robert M. Hagan and J. Ian Stewart, IR2:June 72:215:8955
Water Resources Management In South Florida, Charles L. Nowlin, SEA:70:27
Weather Modification and People, Robert G. Beebe, OIDS:72:435

Dry Bulb Temperature
Analysis of Water Temperature Variations in Large River, Veerasamy Kothandaraman, SA1:Feb 71:19:7908

Drydocks
Floating Dry Docks for Ship Launching, Kenneth R. Broome and William S. Gaither, WW1:Feb 70:121:7110
Lift Dock Combines Drydock and Transfer Platform, Amirikian Arsham, CE:July 71:37
New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712
1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389

Dry Ice
Modification of Convective Clouds in Northern Plains, Martin R. Schock and Arnett S. Dennis, OIDS:72:373

Drying
Drying of Sand-Digested Sludge Mixtures, Martin E. Harper and Brian W. Mar, SA2:Apr 70:381:7222
Tjipanundjang Dam in West Java, Indonesia, Laurence D. Wesley, GT5:May 74:503:10543

Dual Purpose
Recent Progress in Dual-Mode Bicycle Transportation, David M. Eggleston, BP73:Dec 73:616

Dual System
Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925

Ductility
Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398
Ductility and Seismic Response, Vitelmo V. Bertero, TB:73:Ib-6-303
Ductility of Masonry Walls, Rowland J. Mainstone, TB:73:III-27-1101
Effects of Reinforcements on Ductility of Concrete, Surendra P. Shah and B. Vijaya Rangan, ST6:June 70:1167:7366
External Blast, State-of-Art Report 7, Nathan M. Newmark, TB:73:Ib-8-661
Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353
Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267
Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1:Jan 73:183:9501
Steel Ductility Measurements, Asfandiar K. Dhalla and George Winter, ST2:Feb 74:427:10365
Suggested Steel Ductility Requirements, Asfandiar K. Dhalla and George Winter, ST2:Feb 74:445:10366

Dunes
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Determination of Kennedy's Parameter j for Dunes, Mehmet Selim Yalin, TN: HY8:Aug 73:1287:9910
Dune Erosion During Storm Conditions, T. Edelman, CE13:72:II-1305

Field Study of a Tidal Inlet, Bimini, Bahamas, W. Harrison, R. J. Byrne, J. D. Boon, III and R. W. Moncure, 12CEC:71:1201
Formation of Dunes and Antidunes in Open Channels, Taizo Hayashi, HY2:Feb 70:357:7056
Height of Sand Dunes in Open Channel Flows, Mohammad Akram Gill, HY12:Dec 71:2067:8612
Initiation of Ripples on Flat Sediment Beds, Philip B. Williams and Patrick H. Kemp, HY4:Apr 71:505:8042
On the Geometrically Similar Reproduction of Dunes in a Tidal Model with Movable Bed, Mehmet Selim Yalin, CE13:72:II-1143
Phase Dependent Roughness Control of Sand Movement, Douglas L. Inman and Edward B. Tunstall, CE13:72:II-1155
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441:9618

Dune Sands
Dune Erosion During Storm Conditions, T. Edelman, CE13:72:II-1305

Dupuit-Forchheimer Theory
Validity of Dupuit-Forchheimer Equation, Willard A. Murray and Peter L. Monkmeyer, HY9:Sept 73:1573:9997

Durability
Effect of Load Placement on Rigid Pavement Behavior, Harvey J. Treybig, William Ronald Hudson and B. Frank McCullough, TE4:Nov 71:681:8543
Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825
Shotcrete Durability and Strength - A Practical Viewpoint, Jan A. Blanck, SUSS:July 73:320
Summary of Workshop C - Shotcrete Quality Control and Instrumentation, Paul J. Tilp, SUSS:July 73:351

Duration Curves
Cost-Effective Matching of Task and Computing Device, Ralph E. Miller, Jr. and John McCaslin, ST1:Jan 71:329:7854

Dust Control
Shotcrete Safety and Environmental Control, Robert C. Bates, SUSS:July 73:130

Dust Storms
Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948

Dyes
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165:9768
New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770

Dynamic Characteristics
Dynamic Behavior of Steel Chimney Liners, Ronald G. Domer, EPCE:Aug 74:97
Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408
Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72:1529:9429

Dynamic Loads
Aeroelastic Stability of Unstiffened Suspension Bridges, Daniel Dicker, EM6:Dec 71:1677:8615
Decrease in Maximum Hurricane Winds After Landfall, Joseph L. Goldman and Toshimitsu Ushijima, ST1:Jan 74:129:10295
Design Methods Based on Stiffness, Theme Report, Otto Steinhardt, TB:73:II-17-611
Design Of Earth Retaining Structures For Dynamic Loads, H. Bolton Seed and Robert V. Whitman, LS:70:103
Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470
Dynamic Behavior of Rocks to Spherical Stress Waves, R. P. Swift and M. W. McKay, RM13:72:797
Dynamic Influences on Foundation Calculations for Tower Shaped Structures, Roman Ciesielski and Janus Kawecki, TB:73:Ia-11-999
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72:1005:9363
Dynamic Response of Nonlinear Media at Large Strains, Joseph H. Heifitz and Carl J. Costantino, EM6:Dec 72:1511:9451
Effects of Generalized Excitations on the Non-Linear Behavior of Reinforced Concrete Structures, State-of-Art Report 5, Vitelmo V. Bertero, TB:73:III-22-431
Elastic Free-Field Motion Due to Nuclear Blast, Leif E. Fugelso, Robert K. Waddick and Glen L. Heidhardt, EM6:Dec 68:1337:6266
Filtered Poisson Process for Random Vibration Problems, Ronald L. Racicot and Fred Moses, EM1:Feb 72:159:8725
Floor Loads, Emilio Rosenblueth, TB:73:Ib-5-121
Horizontally Curved Bridges Subject to Moving Load, Paul P. Christiano and Charles G. Culver, ST8:Aug 69:1615:6713
Impact and Dynamic Load Effects, State-of-Art Report 4, Masanori Izumi, TB:73:Ib-5-77
Inelastic Dynamic Behavior of Tall Buildings, James Lord, TB:73:Ib-6-291
Inelastic Response of Frames to Dynamic Loads, Donald G. Toridis and Khalilollah Khozeimeh, EM3:June 71:847:8205
Interaction of Aircraft and Ground Structure, Nai C. Yang, ST6:June 70:1119:7360
Limit State for Dynamic Loads, Horea Sandi, TB:73:III-26-938
Modal Response of Structures, Paul H. Wirsching and James T.P. Yao, TN: ST4:Apr 70:879:7191
Response of Highway Bridges to Renewal Traffic Loads, Chi C. Tung, EM1:Feb 69:41:6383
Road Responses to Vibration Tests, Michael E. Szendrei and Charles R. Freeme, SM6:Nov 70:2099:7709
Safety Against Dynamic Forces, Masanobu Shinozuka, ST9:Sept 74:1821:10781
Session V: Dynamic Loadings (Earthquakes, Machinery), John R. Hall, Jr., PISST:71:135
Stability of Columns With Transient Loads, Siegfried M. Holzer, EM6:Dec 70:913:7730
Stability, Summary Report, A. Carpena, TB:73:II-16-605
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705
Wind Loading and Wind Effects, Theme Report, Alan G. Davenport, TB:73:Ib-7-335

Dynamic Pressure
Cylindrical Shell Under Sudden PressurizatioE, Edward G. Lovell, EM6:Dec 70:1229:7776

Dynamic Programming
Absolute Minimum Weight Structures by Dynamic Programming, Lawrence A. Twisdale and Narbey Khachaturian, TN: ST11:Nov 74:2339:10116
Aqueduct Route Optimization by Dynamic Programming, Nathan Buras and Ze'ev Schweig, HY5:Sept 69:1615:6779
Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050
Dynamic Programming of Highway Safety Projects, Marvin M. Johnson, Charles E. Dare and Harry B. Skinner, TE4:Nov 71:667:8534
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742
Model for Planning a Transportation System, Frank A. Tillman, TE2:May 70:229:7289
Multilake River System Operation Rules, Chin-shu Liu and Allan C. Tedrow, HY9:Sept 73:1369:10021
Optimal Construction Staging by Dynamic Programming, Monroe L. Funk and Frank A. Tillman, HW2:Nov 68:255:6215

Optimal Highway Staging by Dynamic Programming, Richard de Neufville and Yasuo Mori, TE1:Feb 70: 11:7080
Optimal Structure Design by Dynamic Programmino, Andrew C. Palmer, ST8:Aug 68:1887:6057
Optimal Timing of Irrigation, Warren A. Hall and William S. Butcher, IR2:June 68:267:5993
Optimal Utilization of Playa Water in Irrigation, Marvin J. Dvoracek and Theodore G. Roefs, OIDS: 72:597
Optimization of Runway Exit Configurations, Everett S. Joline, TE1:Feb 74:85:10350
Solution of Elastic Plates by Invariant Imbedding, Nestor Distefano and Jaime Schujman, EM5:Oct 71:1349:8424

Dynamic Properties

Dynamic Interaction of a Shear Wall with the Soil, Juan Enrique Luco, EM2:Apr 69:333:6497
Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359

Dynamic Response

Analysis of Dynamic Earthquake Response, State-of-Art Report 3, John A. Blume, TB:73:Ib-6-191
Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248
Dynamic Analysis of Inelastic Space Frames, Robert K. Wen and Fereydoon Farhoomand, EM5:Oct 70: 667:7621
Dynamic Buckling of Shallow Arches, Robert E. Fulton and Furman W. Barton, EM3:June 71:865: 8214
Dynamic Response of Airplanes in Ground Operation, Te-ming Hsueh and Joseph Penzien, TE3:Aug 74:743:10755
Dynamic Response of Circular Footings, Juan Enrique Luco and Russell A. Westmann, EM5:Oct 71:1381:8416
Dynamic Response of Imbedded Cylindrical Shell, Raymond Parnes, EM2:Apr 71:421:8073
Dynamic Strip Load On Elastic-Plastic Soil, Kaare Hoeg and H. A. Balakrishna Rao, SM2:Mar 70:429: 7138
Earthquake Response of a Ramberg-Osgood Structure, Movses J. Kaldjian and William R.S. Fan, ST10:Oct 68:2451:6196
Earthquake Response of Arch Dams, Umesh Chandra Tahbildar and Hugh Tottenham, ST11: Nov 70:2321:7681
Elastic Design for Earthquake Motions, State-of-Art Report 5, R. Gordon Dean, TB:73:II-14-215
Inelastic Response of Frames to Dynamic Loads, Donald G. Toridis and Khalilollah Khozeimeh, EM3:June 71:847:8205
Interaction of Aircraft and Ground Structure, Nai C. Yang, ST6:June 70:1119:7360
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72: 519:8961
Live Load Effect on Dynamic Response of Structures, Anjur R. Chandrasekaran and Sarjit S. Saini, ST4:Apr 69:649:6503
Longitudinal Motions of Taut Moorings, Tokuo Yamamoto, John H. Nath and Charles E. Smith, WW1:Feb 74:35:10321
Maximum Structural Response to Seismic Excitations, Masanobu Shinozuka, EM5:Oct 70: 729:7620
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4: Aug 72:891:9091
Predicting Pavement Performance, Robert E. Boyer and Milton E. Harr, TE2:May 74:431:10533
Response Computation Using Truncated Taylor Series, Joseph E. Grant, EM2:Apr 71:295:8019
Response of Hyperbolic Cooling Towers to Turbulent Wind, Mahmoud G. Hashish and Salman H. Abu-Sitta, ST5:May 74:1037:10542
Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, Yoichi Higashi and Toshikazu Takeda, TB:73:III-24-655
Time Effects on Dynamic Shear Modulus of Clays, William F. Marcuson, III and Harvey E. Wahls, SM12:Dec 72:1359:9442

Dynamics

About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Analysis of Dynamic Response of Highway Bridgeu, Anestis S. Veletsos and Tseng Huang, EM5:Oct 70: 593:7591
Analytical Model for Prediction of Ice-Structure Interaction, Hudson Matlock, William P. Dawkins and John J. Panak, EM4:Aug 71:1083:8282
Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550
Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950
Axisymmetric Stress Wave Propagation in Sand, Richard A. Wetzel and Eben Vey, SM5:Oct 70: 1763:7539
Basie Response Fuctions for Elastic Foundations, Anestis S. Veletsos and Branislav Verbic, EM2:Apr 74:189:10483
Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6: Dec 72:1353:9441
Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398
Building Dynamics Due to Stochastic Wind Forces, Gary C. Hart, ST3:Mar 70:535:7154
Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175
Comparison of Footing Vibration Tests with Theory, Frank E. Richart, Jr. and Robert V. Whitman, SM6:Nov 67:143:5568
Concept of Structural Control, James T. P. Yao, ST7: July 72:1567:9048
Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105: 9281
Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749
Design Developments - Asia & Australia, State-of-Art Report 4, Leonard K. Stevens, TB:73:Ib-7-399
Design Procedures for Dynamically Loaded Foundations, R. V. Richard, SM6:Nov 67:169:5569
Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
Dynamic Analysis of Cable-Stiffened Structures, Nicholas F. Morris, ST5:May 74:971:10556
Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679: 8993
Dynamic LoadingP, Elio E. D'Appolonia, PISST:71: 141
Dynamic Loadings, Elio E. D'Appolonia, SM1:Jan 70:49:7010
Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595
Dynamic Response of Embedded Machine Foundations, Kenneth H. Stokoe, II and Frank E. Richart, Jr., GT4:Apr 74:427:10499
Dynamic Response of Initially-Stressed Membrane Shells, John W. Leonard, EM5:Oct 69:1231:6859
Dynamic Response of Nonlinear Media at Large Strains, Joseph H. Heifitz and Carl J. Costantino, EM6:Dec 72:1511:9451
Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988
Dynamics of Impulsively Loaded Circular Plates, Robert J. Green, EM2:Apr 71:413:8079
Dynamics of Ship Anchor-Lines in Waves and Currents, Basil W. Wilson and Donald H. Garbaccio, WW4:Nov 64:449:6888
Dynamic Stability of Thin-Walled Column, Carl H. Popelar, EM3:June 72:657:8978

Dynamic Structure-Soil Wave Model for Deep Water, Billy L. Edge and Paul G. Mayer, WW1:Feb 71:167:7889

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344

Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782

Eigenvalue Analysis of Structures by Folding Force, Itio Hirai and Torazo Yoshimura, EM6:Dec 70:1081:7728

Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229

Fatigue Failure of Nonlinear Multistory Seismic Structure, Iyadurai Kasiraj, ST3:Mar 72:655:8792

Finite-Difference Methods for Plate Vibration Problems, Harold J. Salane and Hudson Matlock, ST3:Mar 69:441:6477

Finite Dynamic Model for Infinite Media, John Lysmer and Roger L. Kuhlemeyer, EM4:Aug 69:859:6719

Finite Elements and Dynamic Viscoelasticity, David W. Malone and Jerome J. Connor, EM4:Aug 71:1145:8293

Forced Motion of Cylindrical Shells, Herbert Reisman and John Medige, EM5:Oct 68:1167:6183

Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806

Free Vibration of Arches Flexible in Shear, Walter J. Austin and Anestis S. Veletsos, EM4:Aug 73:735:9913

Free Vibration of Hyperbolic Cooling Towers, Mahmoud G. Hashish and Salman H. Abu-Sitta, EM2:Apr 71:253:8037

Free Vibration of Shells of Revolution Using FEM, Subir K. Sen and Phillip L. Gould, EM2:Apr 74:283:10488

Free Vibrations of Hyperboloidal Shells of Revolution, Robert L. Carter, Arthur R. Robinson and William C. Schnobrich, EM5:Oct 69:1033:6808

Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231

Holography—A New Tool for Soil Dynamics, Richard D. Woods, Norman E. Barnett and Rolf Sagesser, GT11:Nov 74:1231:10949

Large Eigenvalue Problems in Dynamic Analysis, Klaus-Jurgen Bathe and Edward L. Wilson, EM6:Dec 72:1471:9433

Lateral and Rocking Vibration of Footings, Anestis S. Veletsos and Yau T. Wei, SM9:Sept 71:1227:8388

Long-term Pressures Effects on Shear Modulus of Soils, Sherif S. Afifi, SM10:Oct 71:1445:8475

Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603

Modal Interference in Vibration Tests, Brent J. Hoerner and Paul C. Jennings, EM4:Aug 69:827:6714

Model for Nonlinear Dynamics of Offshore Towers, Edward Terence Foster, Jr., EM1:Feb 70:41:7093

Model-free Design of Aseismic Structures, Rudolf F. Drenick, EM4:Aug 70:483:7496

Monte Carlo Study of Seismic Structural Safety, Paul H. Wirsching and James T. P. Yao, ST5:May 71:1497:8118

Nonlinear Bending of Elastic Plates of Variable Profile, Sridhara D.N. Murthy and Archibald N. Sherbourne, EM2:Apr 74:251:10478

Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983

Nonlinear Dynamic Analysis of Frames with Filler Panels, Garrison Kost, William Weaver, Jr. and Russell B. Barber, ST4:Apr 74:743:10481

Nonlinear Dynamics of Cables with Low Initial Tension, John W. Leonard, EM2:Apr 72:293:8805

Nonlinear Dynamics of Curved Cable Elements, John W. Leonard, TN: EM3:June 73:616:9765

Nonlinear Parameters of Vibrating Foundations, O.M. Christof Ehrler, SM6:Nov 68:1199:6208

Nonlinear Seismic Response Evaluation - Charaima Building, Stephen A. Mahin and Vitelmo V. Bertero, ST6:June 74:1225:10614

Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091

Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363:9328

Properties of Spectral Moments with Applications to Random, Erik H. Vanmarcke, EM2:Apr 72:425:8822

Reinforced Concrete Response to Simulated Earthquakes, Tsuruzo Takeda, Mete A. Sozen and N. Norby Nielsen, ST2:Dec 70:2557:7759

Response of Buried Cylinders Encased in Foam, Carl J. Costantino and Eben Vey, SM5:Sept 69:1159:6769

Response of Cooling Tower to Turbulent Wind, Noel J. Gardner, ST10:Oct 69:2057:6812

Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092

Response of Ground-Excited Elastoplastic Systems, Anestis S. Veletsos and William P. Vann, ST4:Apr 71:1257:8075

Response of Slender Columns to Rapid Compression, Martin L. Moody, EM1:Feb 69:211:6403

Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166

Screening of Surface Waves in Soils, Richard D. Woods, PISST:71:407

Seismic Analysis of Nuclear Power Plant Structures, Richard N. Bergstrom, Shih-Lung Chu and Robert J. Small, PO2:Mar 71:367:7977

Series Solution to Problems in Elastodynamics, Wilfred W. Recker, EM4:Aug 71:1257:8328

Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716

Sliding-Rocking Vibration Of Body On Elastic Medium, Robert T. Ratay, SM1:Jan 71:177:7849

Soil Indentation by Translating Flanged Plate, Jack L. Dais, EM4:Aug 71:1057:8285

Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141

Statistical Linearization for Nonlinear Structures, Wilfred D. Iwan and I-Min Yang, EM6:Dec 71:1609:8576

Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289

Structure-ground Interaction in Earthquakes, Johann H. Rainer, EM5:Oct 71:1431:8422

Studies Of Seismic Response Of Clay Banku, William D. Kovacs, H. Bolton Seed and Izzat M. Idriss, SM2:Feb 71:441:7878

System Dynamics Approach to Urban Planning, K. Preston White, Jarir S. Dajani and Donald Wright, UP1:Mar 74:43:10388

Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72:1087:9260

Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73:715:9918

Transient Wind Loads on Circular Concave Cable Roofs, Paul P. Christiano, Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966

Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, Jamshid Ghaboussi and Edward L. Wilson, EM4:Aug 72:947:9152

Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2:May 72:285:8914

Vertical Vibration of Embedded Footings, Milos Novak and Youpele O. Beredugo, SM12:Dec 72:1291:9412

Vibration Analysis of Thin Cylindrical Containers, Anand S. Arya, Shashi K. Thakkar and Atul C. Goyal, EM2:Apr 71:317:8010

Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092

Wind Deflection of Tall Concrete Frame Buildings, John F. Wiss and Otto E. Curth, ST7:July 70:1461:7413

Wind Induced Vibration in Light Poles, Hayes E. Ross, Jr. and Thomas Charles Edwards, ST6:June 70:1221:7383

Dynamic Stability

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3:June 72:595:8968

Dynamic Buckling of Cylindrical Shell, Charles C. Cromer and Robert E. Ball, EM3:June 71:657:8187

Dynamic Buckling of Shallow Arches, Robert E. Fulton and Furman W. Barton, EM3:June 71:865:8214

Dynamic Stability of Circular Cylindrical Sandwich Panels, Conor D. Johnson and Nelson R. Bauld, Jr., EM6:Dec 71:1643:8598

Dynamic Stability of Plates by Finite Elements, Johnny M. Hutt and Ahmed E. Salam, EM3:June 71:879:8211

Dynamic Stability of Thin-Walled Column, Carl H. Popelar, EM3:June 72:657:8978

Dynamic Stability of Tube Conveying Fluid, Shoei-sheng Chen, EM5:Oct 71:1469:8420

Gravity Effect on Single-Degree Inelastic System, Chang-Kuei Sun, Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565

Indicial Aerodynamic Functions for Bridge Decks, Robert H. Scanlan, Jean-Guy Beliveau and Kathleen S. Budlong, EM4:Aug 74:657:10709

Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, Ben Kato and Le-Wu Lu, TB:73:II-16-463

Plastic Analysis and Design, Summary Report, George C. Driscoll, Jr., TB:73:II-15-399

Random Behavior of Columns, Paul H. Wirsching and James T. P. Yao, EM3:June 71:605:8183

Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, GT2:Feb 74:139:10360

Stability and Boundedness Via Liapunov's Direct Method, Siegfried M. Holzer, EM5:Oct 72:1273:9280

Static and Dynamic Stability of an Imperfect Beam, Jorn S. Hansen and John Roorda, EM2:Apr 73:271:9647

Dynamic Structural Analysis

Acoustic Approximations in Fluid-Shell Interactions, Bedros Bedrosian and Frank L. DiMaggio, EM3:June 72:731:8998

Analysis of Dynamic Earthquake Response, State-of-Art Report 3, John A. Blume, TB:73:Ib-6-191

Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5:May 73:923:9749

Design Using Symbolic Topological Equations, Dennis R. Lagerquist and Steven J. Fenves, EM3:June 69:695:6624

Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652

Displacement Bounds for Blast Loaded Structures, Walter J. Morales, EM4:Aug 72:965:9147

Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72:1817:9127

Dynamic Analysis of Inelastic Space Frames, Robert K. Wen and Fereydoon Farhoomand, EM5:Oct 70:667:7621

Dynamic Analysis of Staggered Truss Framing System, Raj P. Gupta and Subhash C. Goel, ST7:July 72:1475:9038

Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, R. P. Kassawara and D. A. Peck, SDNPF:Dec 73:73

Dynamic Anlaysis Of Three-Dimensional Frames, Roger E. Scholl, TN: ST1:Jan 72:401:8619

Dynamic Behavior of Steel Chimney Liners, Ronald G. Domer, EPCE:Aug 74:97

Dynamic Properties of Tall Shear-Wall Buildings, George T. Taoka, Augustine S. Furumoto and Arthur N.L. Chiu, ST2:Feb 74:305:10336

Dynamic Response of Cable Networks, Nicholas F. Morris, ST10:Oct 74:2091:10895

Dynamic Response of Steel Chinney Liners to Flue Gas Flow, J. J. Deans and J. G. Willmot, EPCE:Aug 74:47

Dynamic Stability Matrix for Planar Beams, James W. Gorzynski and William A. Thornton, TN: EM4:Aug 74:823:10692

Dynamic Wind Stresses in Hyperbolic Cooling Towers, Salman H. Abu-Sitta and Mahmoud G. Hashish, ST9:Sept 73:1823:9989

Earthquake Finite Element Analysis of Structure-Foundation Systems, Ashok K. Vaish and Anil K. Chopra, EM6:Dec 74:1101:10990

Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327

Earthquake Time Histories and Response Spectra, Robert H. Scanlan and Klaus Sachs, EM4:Aug 74:635:10703

Effects of Parameter Variations on Floor Response Spectra, L. K. Liu, C. L. Child and B. Nowotny, SDNPF:Dec 73:435

Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72:1529:9429

Free Vibration Characteristics of Shell Roofs, Anand S. Arya and Shashi K. Thakkar, EM1:Feb 71:109:7929

Free Vibration of Shells of Revolution Using FEM, Subir K. Sen and Phillip L. Gould, EM2:Apr 74:283:10488

A Growing Need for Undergraduate Education in Precast Prestressed Concrete Design, Fromy Rosenberg, CEE:Feb 74:1-382

Inelastic Structural Response to 2D Ground Motion, David A. Pecknold, EM5:Oct 74:949:10846

Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72:519:8961

Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267

Matrix Method for Linear Response of Structures, Gordon B.J. Mah, EM5:Oct 69:1101:6831

Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603

Modal Damping in Dynamic Analysis of Structures, Kao Ding Chiu and Hung Jen Kuo, SDNPF:Dec 73:499

Modal Interference in Vibration Tests, Brent J. Hoerner and Paul C. Jennings, EM4:Aug 69:827:6714

Response of Suspended Boilers to Earthquake Motions, James C. Anderson, Ramachandran Srinivasan and Robert J. Small, EPCE:Aug 74:363

Safety Against Dynamic Forces, Masanobu Shinozuka, ST9:Sept 74:1821:10781

The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE:Sept 72:95

Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10:Oct 73:849:10053

Seismic Design and Analysis of Nuclear Plant Components, Milomir Stoykovich, SDNPF:Dec 73:1

Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135

Stability of Columns With Transient Loads, Siegfried M. Holzer, EM6:Dec 70:913:7730

Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, Yoichi Higashi and Toshikazu Takeda, TB:73:III-24-655

Structural Analysis and Design of Pipe Whip Restraints, Frederick L. Moreadith, Garry J. Patterson, C. R. Angstadt and James F. Glova, SDNPF:Dec 73:201

Structural Dampers, P. Mahmoodi, ST8:Aug 69:1661:6725

Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151
Structural Response By Discrete-State Computation, Raymond G. Jacquot and Christos T. Constantinides, TN: EM2:Apr 72:497:8815
Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717
Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72: 1087:9260
Time History Dynamic Analysis of Pressurizer Discharge Piping System, F. L. Cho and Y. A. Patel, SDNPF:Dec 73:343
Torsional Vibration of Viscoelastic Foundations, Anestis S. Veletsos and V. V. Damodaran Nair, GT3:Mar 74:225:10415
Vibration of Flanged Beams and Panels, Satya P. Keshava, TN: ST7:July 73:1681:9828
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394

Dynamic Tests
Dynamic Cone and Standard Penetration Test in Silty Sands (In Spanish), Ricardo Dobry, 4PCSM: 71:II1
Maximum Dynamic Response and Proof Testing, Jann-Nan Yang and Ewald Heer, TN: EM4:Aug 71:1307:8273
Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213
Vibrator for Soil Testing, Gerd F. Weissmann, TN: SM3:Mar 71:601:7962

Dynamite
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151

Dynamometers
Structural Reaction Dynamometers, M. Daniel Vanderbilt, ST6:June 71:1701:8188

Dysentery
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567

Earth Dams
Body-Force Stresses in Gravity Structures, Rowland Richards, Jr. and Werner E. Schmid, SM1:Jan 68: 205:5749
Conception Investigation and Design of Arrow Dam, Keith A. Henry and Nigel P. Grant, PO1:May 68: 41:5940
Seepage Towards Highway Cuts, Abdel-Aziz I. Kashef, TE4:Nov 69:667:6912
Shihmen Embankment Dam in Taiwan, China, Shen C. Yuan, Paul E. Bartlett and Chuan C. Feng, IR2: June 67:1:5257

Earthfill
Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837
Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696
Offshore Developments that Minimize Environmental Impact, Charles J. Lord, CO2:June 74:159:10610
Recent Results in French Research on Reinforced Earth, Francois Schlosser and Nguyen-Thanh-Long, CO3:Sept 74:223:10800
Reinforced Earth Steel Retaining Walls Used on High Steep Side Slopes in France, Henri Vidal, CE: Feb 70:72
Sand Densification by Heavy Vibratory Compactor, Douglas C. Moorhouse and Gerald L. Baker, SM4: July 69:985:6656
Sand Densification by Heavy Vibratory Compactor, Douglas C. Moorhouse and Gerald L. Baker, PISST:71:379
Transportation Model Applied to Landfill Design, Robert B. Conrad and E. Kenneth Hoffman, EE3: June 74:549:10575

Earth Fills
An Approach to $\phi_m = 0$ Analysis for Stage Construction, Chitta R. Gangopadhyay, TN: GT6: June 74:699:10597
Construction Over Water—Fill or Piles?, Jacob Feld and Robert C. Johnston, CE:Aug 74:54
Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821
Design of Embankments on Peat, Gerald P. Raymond, GT74:June 74:143
In Situ Strength of Rolled and Hydraulic Fill, Geoffrey E. Blight, SM3:May 70:881:7273
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068
Utilization of Marginal Lands for Urban Development, Philip C. Rutledge, SM1:Jan 70:1: 7000

Earth Handling Equipment
Development and Future of Dredging, Adolph W. Mohr, WW2:May 74:69:10513

Earth Materials
Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72: 1325:9417
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068

Earth Moon Trajectories
Structure-ground Interaction in Earthquakes, Johann H. Rainer, EM5:Oct 71:1431:8422

Earth Movements
Influence of Soil Condition on Ground Motion During Earthquakes, H. Bolton Seed and Izzat M. Idriss, SM1:Jan 69:99:6347
Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101

Earthmoving
Estimating Costs of Earthwork via Simulation, Jack H. Willenbrock, CO1:Mar 72:49:8763
Important Ground Parameters in Soft Ground Tunneling, Donald E. Heuer, EFSE:Aug 74:41

Earth Pressure
Analysis of a High Gravity Retaining Wall, Fred H. Kulhawy, GT74:June 74:159
Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71: 1183:8372
A Case Study of a Soil Anchor Tie-Back System, Michael L. Larson, Willard R. Willette, Harold C. Hall and John P. Gnaedinger, PES:72:I-1341
A Case Study of the Bauer Earth Anchor, Marvin D. Oosterbaan and Douglas G. Gifford, PES:72:I-1391
Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568
Distribution of Earth Pressure on Sheet-Pile Walls, Dafalla A. Turabi and Arpad Balla, SM6:Nov 68: 1271:6228
Distribution of Wind Loads to Soils, State-of-Art Report 2, Salvatore V. DeSimone, TB:73:Ia-11-881
Dynamic Passive Earth-Pressure Problem, Ali Sabzevari and Arsalan Ghahramani, GT1:Jan 74:15: 10285
Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, SM12:Dec 73:1153:10237
Earth Responses in Soft Ground Tunnelling, Peter M. Rebull, PES:72:I-1517
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980

Finite Element Analyses of Port Allen Lock, James M. Duncan and Gerald W. Clough, SM8:Aug 71:1053:8317

Finite Element Analyses of Retaining Wall Behavior, Gerald W. Clough and James M. Duncan, SM12:Dec 71:1657:8583

Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715

The Gloucester Test Fill, Michael Bozozuk and Gerald A. Leonards, PES:72:I-299

An Instrumented Tied-Back Deep Excavation, Thomas K. Liu and John P. Dugan, Jr., PES:72:I-1323

Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360

Limit Analysis of Plane Problems in Soil Mechanics, John Lysmer, SM4:July 70:1311:7416

Model Study of Passive Pressure in Sand, Jagdish Narain, Swami Saran and P. Nandakumaran, SM4:July 69:969:6655

Numerical Analysis of Flexible Retaining Structures, T. Allan Haliburton, SM6:Nov 68:1233:6221

Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221

Performance of Tied-Back Walls in Clay, Gerald W. Clough and Yuet Tsui, GT12:Dec 74:1259:11028

Plane Strain Approximations in Finite Element Analyses of Temporary Walls, Yuet Tsui and Gerald W. Clough, GT74:June 74:173

Recent Developments in Earthwork Instrumentation, Raymond A. Forsyth and Kenneth Jackura, EFSE:Aug 74:254

Stability of Slurry Trench Cuts in Saturated Clay, George G. Meyerhof, PES:72:I-1451

Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858

Studies on Anchored Flexible Walls in Sand, Thomas H. Hanna and Ibrahim I. Kurdi, GT10:Oct 74:1107:10854

Temperature Effects on Behavior of Port Allen Lock, Gerald W. Clough and James M. Duncan, PES:72:I-1467

Tied-Back Deep Excavations in Los Angeles Area, Perry A. Maljian and James L. Van Beveren, CO3:Sept 74:337:10791

Use of the Finite Element Method in Analysis of Soil-Structure Interaction, James M. Duncan, PES:73:III-265

Earth Pressure Coefficient

Effect of Mica on K_0 Compressibility of Two Soils, Charles A. Moore, SM9:Sept 71:1275:8401

Soil Liquefaction by Torsional Simple Shear Device, Isao Ishibashi and Mehmet A. Sherif, GT8:Aug 74:871:10752

Earthquake Damage

Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127

Aseismic Design in Romania, P. Mazilu, TB:73:Ib-6-279

Badly Needed: Changes in Building Codes for Houses, Melvin W. Jackson, CE:Apr 72:55

Damage Evaluation, State-of-Art Report 5B, S. Bubnov, TB:73:Ib-6-247

Earthquake Effects on the Masonry of Multistory Buildings, Juan S. Carmona, TB:73:Ib-6-284

Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689

Evaluation of Effects of Ground Shaking on Concrete Gravity Dams, Anil K. Chopra, IMROD:Sept 73:771

Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397

Silver Lake Reservoir Reconstruction, LeVal Lund, IMROD:Sept 73:814

Earthquake Engineering

California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78

Earthquake Time Histories and Response Spectra, Robert H. Scanlan and Klaus Sachs, EM4:Aug 74:635:10703

Rating of Ground Motion, Arturo Arias, TB:73:Ib-6-320

Report on Conference on 1971 San Fernando, Ca., Earthquake, David J. Leeds, CE:May 72:58

The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE:Sept 72:95

Stress Measurement by Retractable Cable Method, Rodolfo V. de la Cruz, RM13:72:865

Earthquake Loads

Analysis and Design of Hyperbolic Cooling Towers, Ajaya K. Gupta and Adolf Walser, EPCE:Aug 74:307

Analysis and Design of Nuclear Power Plant Structures, Peter K. Ho and Milomir Stoykovich, SDNPF:Dec 73:365

Concept of Structural Control, James T. P. Yao, ST7:July 72:1567:9048

Current Programs for Seismic Safety -- Bureau of Reclamation, Richard W. Kramer, IMROD:Sept 73:795

Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2a Elio Giangreco, TB:73:II-13-23

Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790

Drift Criteria, State-of-Art Report 2, Roy G. Johnston, TB:73:II-17-635

Earthquake Induced Settlements in Saturated Sands, Kenneth L. Lee and Aurelio Albaisa, GT4:Apr 74:387:10496

Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327

Effect of Seismic Loading on Undrained Clay Creep, Thomas L. Holzer and Kaare Hoeg, TN: SM1:Jan 73:283:9505

Fatigue Damage in Seismic Steel Members, Ramachandran Srinivasan and William H. Munse, TB:73:II-18-814

Fatigue Damage in Seismic Structures, Mubadda T. Suidan, TB:73:II-18-808

Inelastic Dynamic Behavior of Tall Buildings, James Lord, TB:73:Ib-6-291

Influence of Closely Spaced Modes in Response Spectrum Method of Analysis, A. K. Singh, Shih-Lung Chu and Surendra Singh, SDNPF:Dec 73:479

Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267

Modal Damping for Soil-Structure Interaction, Nien-Chien Tsai, EM2:Apr 74:323:10490

Modal Damping in Dynamic Analysis of Structures, Kao Ding Chiu and Hung Jen Kuo, SDNPF:Dec 73:499

Modal Response of Structures, Paul H. Wirsching and James T.P. Yao, TN: ST4:Apr 70:879:7191

Motion-Reducing Device Under Seimic Excitation, Paul H. Wirsching and James T.P. Yao, TN: EM1:Feb 72:285:8687

Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739

A New Approach to Soil-Structure Interaction Problems, Achyut V. Setlur, Jagannath K. Khanna and M. Valathur, SDNPF:Dec 73:139

Scaling Of Earthquake Accelerograms-A Simplified Approach, Asadour H. Hadjian, TN: ST2:Feb 72:547:8688

Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10:Oct 73:849:10053

Seismic Safety Study of Henshaw Dam, Charles G. Wolfe, IMROD:Sept 73:871

Silver Lake Reservoir Reconstruction, LeVal Lund, IMROD:Sept 73:814

Some Problems with the Calculation of Seismic Forces on Equipment, Asadour H. Hadjian, SDNPF:Dec 73:1
Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817
Stress Studies of Three Old Arch Dams, Gurmukh S. Sarkaria, IMROD:Sept 73:418
Structural Design of Fukushima No. 6 and Tokai No. 2 Nuclear Power Plants, Hsiang-Sheng Chang, SDNPF:Dec 73:391
Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, Theodore R. Higgins, TB:73:II-1
Structure-Foundation Interaction of Nuclear Power Plant Structure During Earthquakes, R. Joe Hunt, SDNPF:Dec 73:119
Three Dimensional Soil-Structure Seismic Analysis Using Finite Elements, Surendra Singh, Ramachandran Srinivasan, P. K. Agrawal and Shih-Lung Chu, SDNPF:Dec 73:43

Earthquake Resistant Structures
Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127
Analysis and Design of Hyperbolic Cooling Towers, Ajaya K. Gupta and Adolf Walser, EPCE:Aug 74:307
Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291
Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950
Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings, Jay L. Smith and Dennis K. Ostrom, PO1:July 74:1:10652
Aseismic Design in Romania, P. Mazilu, TB:73:Ib-6-279
Aseismic Design of Buildings, Jai Krishna, TB:73:Ib-6-299
Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, ST1:Jan 74:175:10289
The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE:Aug 72:55
Current Programs for Seismic Safety -- Bureau of Reclamation, Richard W. Kramer, IMROD:Sept 73:795
Damage Evaluation, State-of-Art Report 5B, S. Bubnov, TB:73:Ib-6-247
Design of Columns for Seismic Loads, Aybars Gurpinar and James T.P. Yao, ST9:Sept 73:1875:9978
Ductility and Seismic Response, Vitelmo V. Bertero, TB:73:Ib-6-303
Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134
Earthquake Effects on the Masonry of Multistory Buildings, Juan S. Carmona, TB:73:Ib-6-284
Earthquake Engineering for Nuclear Power Plants, Roland L. Sharpe, CE:Mar 69:39
Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105
Earthquake-proof Design Gives Rise to First Japanese Skyscrapere, Kiyoshi Muto, CE:Mar 71:49
Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
Earthquake-Resistant Reinforced-Concrete Buildings, Paul Rogers, CE:Aug 71:32
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255
Economic Basis for Seismic Resistance, Herbert A. Sawyer, TB:73:Ib-6-319
Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695:8986
Fatigue Damage in Seismic Structures, Mubadda T. Suidan, TB:73:II-18-808
Focal Points of the Studies in Our Design, Kiyoshi Muto, TB:73:C-DM-217
Foundation Design for Buildings on Soft Clay in Earthquake Zone, James E. Roberts and Edward Margason, CE:Feb 74:56
Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149
General Report on Seismic Hazards and Problems, H. Bolton Seed, Julio E. Valera, Rudy J. Dietrich and Walter F. Anton, IMROD:Sept 73:745
Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397
Influence of Closely Spaced Modes in Response Spectrum Method of Analysis, A. K. Singh, Shih-Lung Chu and Surendra Singh, SDNPF:Dec 73:479
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65
Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712
Modal Damping in Dynamic Analysis of Structures, Kao Ding Chiu and Hung Jen Kuo, SDNPF:Dec 73:499
Model-free Design of Aseismic Structures, Rudolf F. Drenick, EM4:Aug 70:483:7496
A New Approach to Soil-Structure Interaction Problems, Achyut V. Setlur, Jagannath K. Khanna and M. Valathur, SDNPF:Dec 73:139
An Owner's Program for the Investigation and Analysis of Its Dams, Richard B. Roche, Jr., IMROD:Sept 73:516
P-delta and Axial Column Deformation in Aseismic Frames, Subhash C. Goel, ST8:Aug 69:1693:6738
Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12:Dec 73:2345:10230
Portage Mountain Intake Structure and Facilities, H. Edward Howe, PO3:June 70:331:7342
Potentially Active Faults in Dam Foundations, James L. Sherard, IMROD:Sept 73:768
Quake Lesson from Managua: Revise Concrete Building Design, Mark Fintel, CE:Aug 73:60
Report on Conference on 1971 San Fernando, Ca., Earthquake, David J. Leeds, CE:May 72:58
Response Of Offshore Towers To Earthquake Excitation, Anil K. Malhotra and Joseph Penzien, CEO-II:70:65
Response of Suspended Boilers to Earthquake Motions, James C. Anderson, Ramachandran Srinivasan and Robert J. Small, EPCE:Aug 74:363
The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE:Sept 72:95
Scaling Of Earthquake Accelerograms-A Simplified Approach, Asadour H. Hadjian, TN: ST2:Feb 72:547:8688
Seismic Analysis and Design of the San Onofre Nuclear Generating Station, Units 2 and 3 Containment, Jay W. Wiley, Jr., Kenneth M. Schechter, Don L. Price and P. W. Koss, EPCE:Aug 74:13
Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73:281:10164
Seismic Resistant Design of Safety Class Structures and Equipment, Chang Chen, SDNPF:Dec 73:459
Seismic Response by Variable Damping Finite Elements, Izzat M. Idriss, H. Bolton Seed and Norman Serff, GT1:Jan 74:1:10284
Seismic Safety Study of Henshaw Dam, Charles G. Wolfe, IMROD:Sept 73:871
Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140
Soil Conditions and Building Damage in 1967 Caracas Earthquake, H. Bolton Seed, Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108
Some Problems with the Calculation of Seismic Forces on Equipment, Asadour H. Hadjian, SDNPF:Dec 73:1
Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, Yoichi Higashi and Toshikazu Takeda, TB:73:III-24-655

Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343

Structure-Foundation Interaction of Nuclear Power Plant Structure During Earthquakes, R. Joe Hunt, SDNPF:Dec 73:119

Earthquakes

Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997

Analysis of Accelerograms and Structural Response, S. K. Guha, S. P. Agarwal, V. P. Agarwal, P. D. Marwadi and S. C. Marwad , TN: EM2:Apr 71: 589:8017

Analysis of Dynamic Earthquake Response, State-of-Art Report 3, John A. Blume, TB:73:Ib-6-191

Analysis of Sheffield Dam Failure, H. Bolton Seed, Kenneth L. Lee and Izzat M. Idriss, SM6:Nov 69: 1453:6906

An Approach to Time-Varying Spectral Analysis, Shih-Chi Liu, EM1:Feb 72:243:8733

Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079

Architectural Seismic Detailing, State-of-Art Report 3, Ormond Robert Berry, TB:73:Ia-12-1115

Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950

Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings, Jay L. Smith and Dennis K. Ostrom, PO1:July 74:1:10652

Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, ST1:Jan 74: 175:10289

The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE: Aug 72:55

Base Moment for a Class of Linear Systems, Jacobo Bielak, EM5:Oct 69:1053:6810

Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915

Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015

Borrego Mountain Earthquake of April 8, 1968, T. Leslie Youd and Robert O. Castle, SM4:July 70: 1201:7396

Bridge Foundation Behavior in Alaska Earthquake, Grant A. Ross, H. Bolton Seed and Ralph R. Migliaccio, SM4:July 69:1007:6664

Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398

Buttress Design Earthquake-Induced Slides, Erwin Long and Warren George, SM4:July 67:595:5332

Characteristics of Rock Motions During Earthquakes, H. Bolton Seed, Izzat M. Idriss and Fred W. Kiefer, SM5:Sept 69:1199:6783

Collapse of Yielding Structures During Earthquakes, Paul C. Jennings and Raul Husid, EM5:Oct 68: 1045:6154

Comparative Study of Soil Spring and Finite Element Models for Seismic Soil-Structure Interaction Analysis of Nuclear Power Plants, P. K. Agrawal, Shih-Lung Chu and Hemant H. Shah, SDNPF:Dec 73:63

Concrete Containments for Reactors-State-of-Art, Chen Pang Tan, ST7:July 70:1543:7424

Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1

Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749

Cyclic Stress-Strain Characteristics of Clay, Gerald R. Thiers and H. Bolton Seed, SM2:Mar 68:555: 5871

Damage to Structures Due to Floor Shocks, Nelson M. Isada, ST2:Feb 71:561:7897

Deformation Characteristics of Sands Under Cyclic Loading, Marshall L. Silver and H. Bolton Seed, SM8:Aug 71:1081:8334

Design of Columns for Seismic Loads, Aybars Gurpinar and James T.P. Yao, ST9:Sept 73:1875: 9978

Design Of Earth Retaining Structures For Dynamic Loads, H. Bolton Seed and Robert V. Whitman, LS:70:103

Design of Seismic Joint for San Francisco Bay Tunnel, Walter S. Douglas and Robert Warshaw, ST4:Apr 71:1129:8040

Distribution Of Response To Simulated Earthquakes, Paul H. Wirsching and James T.P. Yao, TN: EM4: Aug 70:515:7444

Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824

Dynamic Analysis of Multibay Multistory Frames, Masaaki Suko and Peter F. Adams, ST10:Oct 71: 2519:8443

Dynamic Analysis of Plane Coupled Shear Walls, Wai K. Tso and Ho-Bong Chan, EM1:Feb 71:33: 7899

Dynamic Analysis of Staggered Truss Framing System, Raj P. Gupta and Subhash C. Goel, ST7: July 72:1475:9038

Dynamic Characteristics of Soil-Structure Systems, State-of-Art Report 2, H. Bolton Seed, TB:73:Ib-6-177

Dynamic Response of Frames with Nonrigid Connections, Steve R. Lionberger and William Weaver, Jr., EM1:Feb 69:95:6393

Dynamics of Correlated Random Pulse Trains, Shih-Chi Liu, EM4:Aug 70:455:7490

Dynamics of Tier Buildings, William Weaver, Jr., Mark F. Nelson and Thomas A. Manning, EM6: Dec 68:1455:6293

Dynamic Soil-Structure Interaction, Mauricio A. Sarrazin, ST7:July 72:1525:9026

Dynamic Soil-Structure Interaction, Robert V. Whitman, TB:73:Ib-6-310

Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, SM12:Dec 73:1153:10237

Earthquake Behavior of Reservoir-Dam Systems, Anil K. Chopra, EM6:Dec 68:1475:6297

Earthquake Design Criteria for Subways, Thomas R. Kuesel, ST6:June 69:1213:6616

Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383: 8399

Earthquake Design of Cooling Towers, Salman H. Abu-Sitta and Alan G. Davenport, ST9:Sept 70: 1889:7524

Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134

Earthquake Engineering for Nuclear Power Plants, Roland L. Sharpe, CE:Mar 69:39

Earthquake Finite Element Analysis of Structure-Foundation Systems, Ashok K. Vaish and Anil K. Chopra, EM6:Dec 74:1101:10990

Earthquake Forces on Equipment in Nuclear Power Plants, Asadour H. Hadjian, PO3:July 71:649:8240

Earthquake Ground Motion, State-of-Art Report I, George W. Housner, TB:73:Ib-6-159

Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105

Earthquake Hydrodynamic Forces on Arch Dams, Parambakatoor R. Perumalswami and Lakshmidhar Kar, EM5:Oct 73:965:10060

Earthquake Interaction by Fast Fourier Transform, Shih-Chi Liu and Lawrence W. Fagel, EM4:Aug 71:1223:8324

Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149

Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327

Earthquake Loading Response, Theme Report, Kiyoshi Muto, TB:73:Ib-6-151

Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689

Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837

Earthquake Research Needs For Nuclear Power Plants, George W. Housner, PO1:Jan 71:77:7818

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
Earthquake Response of a Ramberg-Osgood Structure, Movses J. Kaldjian and William R.S. Fan, ST10:Oct 68:2451:6196
Earthquake Response of Arch Dams, Umesh Chandra Tahbildar and Hugh Tottenham, ST11: Nov 70:2321:7681
Earthquake Response of Concrete Gravity Dams, Anil K. Chopra, EM4:Aug 70:443:7485
Earthquake Response Statistics of Nonlinear Structures, Shih-Chi Liu, EM2:Apr 69:397:6507
Earthquake Wave Transmission Through Saturated Soil, Constantine N. Papadakis and Frank E. Richart, Jr., GT74:June 74:1
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255
Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
Elastic Design for Earthquake Motions, State-of-Art Report 5, R. Gordon Dean, TB:73:II-14-215
Elasto-Plastic Seismic Response of Reinforced Concrete Frame, Warren R. Walpole and Robin Shepherd, ST10:Oct 69:2031:6813
Equivalent Linearization for Random Vibration, Loren D. Lutes, EM3:June 70:227:7333
Equivalent Viscous Damping for Yielding Structures, Paul C. Jennings, EM1:Feb 68:103:5793
Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229
Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695: 8986
Fatigue Damage in Seismic Steel Members, Ramachandran Srinivasan and William H. Munse, TB:73:II-18-814
Fatigue Damage in Seismic Structures, Iyadurai Kasiraj and James T. P. Yao, ST8:Aug 69:1673: 6727
Fatigue Failure of Nonlinear Multistory Seismic Structure, Iyadurai Kasiraj, ST3:Mar 72:655:8792
Foundation Compliance Effects on Earthquake Response Spectra, Alberto Castellani, SM4:July 70: 1335:7425
Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149
Gravity Effect on Single-Degree Inelastic System, Chang-Kuei Sun, Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565
Holography—A New Tool for Soil Dynamics, Richard D. Woods, Norman E. Barnett and Rolf Sagesser, GT11:Nov 74:1231:10949
Hydrodynamic Effects in Earthquake Response of Gravity Dams, P. Chakrabarti and Anil K. Chopra, ST6:June 74:1211:10616
Implications of the New ACI Building Code, Edward Cohen, CE:Aug 72:47
Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563
Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397
Inelastic Analysis of R/C Frame Structures, Shunsuke Otani, ST7:July 74:1433:10686
Influence of Soil Condition on Ground Motion During Earthquakes, H. Bolton Seed and Izzat M. Idriss, SM1:Jan 69:99:6347
Influence of Soil Conditions on Building Damage Potential During Earthquakes, H. Bolton Seed and Izzat M. Idriss, ST2:Feb 71:639:7909
Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65
Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, Y. Yokoo and Hiroshi Akiyama, TB:73:II-17-619
Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133
Live Load Effect on Dynamic Response of Structures, Anjur R. Chandrasekaran and Sarjit S. Saini, ST4:Apr 69:649:6503
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741
Managua Earthquake: Lessons Learned, Hudson W. Smith, CE:Sept 74:102
Maximum Structural Response to Seismic Excitations, Masanobu Shinozuka, EM5:Oct 70: 729:7620
Mixing-in-Place Soil and Portland Cement, James L. Sherard, SM6:Nov 69:1357:6909
Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603
Modal Damping for Soil-Structure Interaction, Nien-Chien Tsai, EM2:Apr 74:323:10490
Modal Damping in Dynamic Analysis of Structures, Kao Ding Chiu and Hung Jen Kuo, SDNPF:Dec 73:499
Model-free Design of Aseismic Structures, Rudolf F. Drenick, EM4:Aug 70:483:7496
Monte Carlo Study of Seismic Structural Safety, Paul H. Wirsching and James T. P. Yao, ST5:May 71: 1497:8118
New Horizons in Rock Machanics, H. Reginald Hardy, Jr., Editor and Robert Stefanko, Editor, RM14:73, 785pp.
Nonlinear Earthquake Behavior of Tall Buildings, Ray W. Clough and Kalmar L. Benuska, EM3:June 67:129:5292
Nonlinear Seismic Response Evaluation - Charaima Building, Stephen A. Mahin and Vitelmo V. Bertero, ST6:June 74:1225:10614
Nonstationary Stochastic Model of Earthquake Motions, Mohammad Amin and Alfredo H.-S. Ang, EM2:Apr 68:559:5906
Non-Synchronous Ground Motion, Horea Sandi, TB: 73:Ib-6-325
Numerical Model for Tsunami Run-Up, Kenneth L. Heitner and George W. Housner, WW3:Aug 70: 701:7491
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4: Aug 72:891:9091
Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72: 1255:8937
Planning and Desing of Tall Buildings, Lynn S. Beedle, Chmn. and Le-Wu Lu, Chmn., TB:74, 5200pp.
Probabilistic Models for Seismic Force Designs, Jack R. Benjamin, ST5:May 68:1175:5950
Probabilistic Response Analyses to Earthquakes, R. Narayana Iyengar and Kashi T. Sundara Raja Iyengar, EM3:June 70:207:7321
Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2[illegible]3: 9328
Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654
Random Behavior of Columns, Paul H. Wirsching and James T. P. Yao, EM3:June 71:605:8183
Random Processes for Earthquake Simulation, Roy Levy, Frank Kozin and Robert B.B. Moorman, EM2:Apr 71:495:8057
Rating of Ground Motion, Arturo Arias, TB:73:Ib-6-320
Reinforced Concrete Response to Simulated Earthquakes, Tsuruzo Takeda, Mete A. Sozen and N. Norby Nielsen, ST2:Dec 70:2557:7759
Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6: Dec 71:1625:8584
Repairing Buildings Damaged in Earthquake, CE:Oct 73:62
Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, TE3:Aug 74:733:10756
Response of Ground-Excited Elastoplastic Systems, Anestis S. Veletsos and William P. Vann, ST4:Apr 71:1257:8075
Response of Nonuniform Soil Deposits to Traveling Seismic Waves, Houshang Dezfulian and H. Bolton Seed, SM1:Jan 71:27:7808

Response Of Offshore Towers To Earthquake Excitation, Anil K. Malhotra and Joseph Penzien, CEO-II:70:65

Responses of Earth Dams to Traveling Seismic Waves, Mostafa Dibaj and Joseph Penzien, SM2: Mar 69:541:6453

Sand Liquefaction Under Cyclic Loading Simple Shear Conditions, William H. Peacock and H. Bolton Seed, SM3:May 68:689:5957

The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE: Sept 72:95

Seismic Analysis of Nuclear Power Plant Structures, Richard N. Bergstrom, Shih-Lung Chu and Robert J. Small, PO2:Mar 71:367:7977

Seismic and Cyclonic Response of Continuous Frames, Gerald M. Smith, George C. Ernst and Mahendra Maheshwari, ST2:Feb 74:391:10355

Seismic Behavior of Multistory Braced Steel Frames, Subhash C. Goel and Robert D. Hanson, ST1:Jan 74:79:10288

Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305: 10145

Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135

Seismic Design of Soil-Structure Systems, Richard A. Parmelee and John H. Wronkiewicz, ST10:Oct 71: 2503:8437

Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142

Seismic Effects on Earth Dam from Explosion, Lyman W. Heller, TN: SM11:Nov 73:1038:10/48

Seismic Failures of Chilean Tailings Dams, Ricardo Dobry and Leonardo Alvarez, SM6:Nov 67:237: 5582

Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73: 281:10164

Seismic Motion of Buildings with Buried Foundations, Stephen A. Thau, Andrej Umek and Rouben Rostamian, EM5:Oct 74:919:10870

Seismic Resistance of Concrete Frames with Grade 60 Reinforcement, Norman W. Hanson, ST6:June 71:1685:8180

Seismic Resistant Design of Safety Class Structures and Equipment, Chang Chen, SDNPF:Dec 73:459

Seismic Response of Horizontal Soil Layers, Izzat M. Idriss and H. Bolton Seed, SM4:July 68:1003:6043

Seismic Response of Single-Story Interaction Systems, David S. Perelman, Richard A. Parmelee and Seng-Lip Lee, ST11:Nov 68:2597:6235

Seismic Response of Soil Deposits, Izzat M. Idriss and H. Bolton Seed, SM2:Mar 70:631:7175

Seismic Response of Soil Deposits Underlain by Sloping Rock Boundaries, Houshang Dezfulian and H. Bolton Seed, SM6:Nov 70:1893:7659

Seismic Response of Structure-Foundation Systems, Richard A. Parmelee, David S. Perelman, Seng-Lip Lee and Leon M. Keer, EM6:Dec 68:1295:6264

Seismic Response Predictions of Bridge Pier, Robin Shepherd and Richard E. McConnel, EM3:June 72: 609:8949

Seismic Safety of Earth Dams, Tien H. Wu and Leland M. Kraft, Jr., SM6:Nov 70:1987:7686

Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, GT2:Feb 74: 139:10360

Session V: Dynamic Loadings (Earthquakes, Machinery), John R. Hall, Jr., PISST:71:135

Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72: 381:8844

Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006

Shear Walls, State-of-Art Report 4, Masahide Tomii, TB:73:III-21-203

Simplified Procedure for Evaluating Soil Liquefaction Potential, H. Bolton Seed and Izzat M. Idriss, SM9: Sept 71:1249:8371

Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, ST3:Mar 74: 687:10435

Soil Conditions and Building Damage in 1967 Caracas Earthquake, H. Bolton Seed, Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108

Soil Liquefaction by Torsional Simple Shear Device, Isao Ishibashi and Mehmet A. Sherif, GT8:Aug 74: 871:10752

Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., GT3:Mar 74:247:10410

Soil Structure Interaction Problems for Nuclear Containment Structures, E. Kausel and Jose M. Roesset, EPCE:Aug 74:469

Soil-Structure Systems, Akbar R. Tamboli, TB:73:Ib-6-318

Spectral Simulation and Earthquake Site Properties, Shih-Chi Liu and Dilip P. Jhaveri, EM5:Oct 69: 1145:6844

Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817

Statistical Linearization for Nonlinear Structures, Wilfred D. Iwan and I-Min Yang, EM6:Dec 71: 1609:8576

Steady-State Response of Yielding Shear Structure, Wilfred D. Iwan, EM6:Dec 70:1209:7774

Strain and Tilt Observations Near an Active Fault, Charles G. Bufe, RM13:72:685

Structure-Foundation Interaction of Nuclear Power Plant Structure During Earthquakes, R. Joe Hunt, SDNPF:Dec 73:119

Studies Of Seismic Response Of Clay Banku, William D. Kovacs, H. Bolton Seed and Izzat M. Idriss, SM2:Feb 71:441:7878

Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Test Method for Seismic Qualification of Equipment, Michael de Estrada, PO1:July 74:97:10656

Test Procedures for Measuring Soil Liquefaction Characteristics, H. Bolton Seed and William H. Peacock, SM8:Aug 71:1099:8330

Toward a Coherent Natural Hazards Policy, John H. Wiggins, CE:Apr 74:74

Tsunami-Responses Of San Pedro Bay And Shelf, Basil W. Wilson, CEO-II:70:1099

Two Nonlinear Beams with Definitions of Ductility, Melbourne F. Giberson, ST2:Feb 69:137:6377

Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229

Vibration Analysis of Thin Cylindrical Containers, Anand S. Arya, Shashi K. Thakkar and Atul C. Goyal, EM2:Apr 71:317:8010

Volume Changes in Sands During Cyclic Loading, Marshall L. Silver and H. Bolton Seed, SM9:Sept 71:1171:8354

Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176

Earthquake Theory

Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72: 1529:9429

Earthquake Warning Systems

Current Program of Seismic Safety, Elmer W. Stroppini, IMROD:Sept 73:786

Earthwork

Application of Computers to Airport Planning and Design, Rufus C. Phillips, III, TE3:Aug 70:341: 7472

Auto Race Facility: Tracks for Indianapolis, Grand Prix, Dragsters-All in One, George J. Mim Mack and Karl B. Brown, CE:May 71:39

Computer Technology in New Line and Relocation Planning, R. A. Stane, TE3:Aug 70:291:7458

Earthwork Quantities by Random Sampling, Marvin Gates and Amerigo Scarpa, CO1:July 69:65:6681

Envirionment and Construction Management Engineers, David A. Spivey, CO3:Sept 74:395: 10804

Process Control Computers For Educational Exercises, Charles A. Moore, TN: SM5:May 72: 517:8865
Recent Developments in Earthwork Instrumentation, Raymond A. Forsyth and Kenneth Jackura, EFSE: Aug 74:254

Easements
Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367: 9751

Eccentric Loading
Bearing Capacity of Eccentrically Loaded Footings, Shamsher Prakash and Swami Saran, SM1:Jan 71: 95:7814
Biaxially Loaded Beam-Column Analysis, Ishwar C. Syal and Satya S. Sharma, ST9:Sept 71:2245:8384
Eccentrically Loaded Circular Plates on Columns, Kasem Chantaramungkorn, Pasidhi Karasudhi and Seng-Lip Lee, TN: ST1:Jan 73:234:9464
Eccentrically Loaded Columns, Alexander Chajes, TN: ST2:Feb 74:493:10341

Echo Sounding
Effect of Long Period Waves on Hydrographic Surveys, Orville T. Magoon and William O. Sarlin, 12CEC:71:2251

Ecology
Aquatic Ecosystems and Thermal Power Plants, Loren D. Jensen and Derek K. Brady, PO1:Jan 71: 209:7802
Biological Implications Of Water Resource Management, Taylor R. Alexander, SEA:70:1
Blueprint for the New ASCE Year, Samuel S. Baxter, CE:Jan 71:43
Book Review: Ecology and International Development, Kim de Rubertis, CE:Jan 73:27
Can Development and Ecology be Reconciled?, John E. Skinner, CE:Apr 71:67
Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50
The Civil Engineers Role in Environmental Development, Abel Wolman, CE:Oct 70:42
Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812
Concepts and Utilities of Ecologic Model, Carl W. Chen, SA5:Oct 70:1085:7602
The Cross-Florida Barge Canal: A Lesson in Ecology, Suzy Fisher, CE:Apr 71:44
Dams and Ecology: Can They be Made Compatible?, Darrell J. Turner, CE:Sept 71:76
Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
Ecological Assessment of Transportation Alternatives, Jason M. Cortell and Donald A. Yonika, UT73:May 73:143
Ecological Impacts of Freeway Construction, Norbert Pointner, UT73:May 73:215
Ecological Importance Of Temporal Variations, David A. Bella, TN: SA4:Aug 72:685:9084
Ecology of Blue-Green Algal Viruses, Robert E. Cannon, Miriam S. Shane and Eugene DeMichele, EE6:Dec 74:1205:11012
Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
Effect Of Cultural Practices On Water Resources, Cortland E. Young, SEA:70:77
Effects of Deforestation on Water Quality, Gene E. Likens, IAWM:72:133
The Engineer and the Environment, C. Maxwell Stanley, CE:July 72:78
Environmental Considerations in the Use of Herbicides on Reclamation Projects, John E. Knoll, OIDS:72:205
Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1: May 73:205:9738
Environmental Impact of Wastewater Discharges, E. R. Hendrickson and J. B. Koogler, SEA:70:91
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877
Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Environmental Issues, Effects, and Solutions, Lynn A. Brown, IR73:Aug 73:511
Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994
Environmental Studies for Rocky Mountain Highway, Austin B. Milhollin, UP1:Mar 74:17: 10387
Estuaries Need Freshwater, Charles R. Chapman, SEA:70:233
Exotic Uses Of Aquifers (and their impact on groundwater basin management), Raphael G. Kazmann, SEA:70:295
Fundamentals of Comprehensive Environmental Planning, David A. Bella, EI1:Jan 74:17:10267
Geohydrologic Aspects of Cross-Florida Barge Canal, Glen L. Faulkner, SEA:70:307
Ground Water Management-A Progress Report, Jack J. Coe, SEA:70:105
Human Ecology Considerations in Water Quality Management, Albert H. Stevenson, WQEF:Mar 70: 65
Hydrologic Simulation Procedures As Applied To Vegetation Management, George Fleming, SEA:70: 269
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
Is Technology Relevant?, Michael C. Kavanaugh, CE: Oct 70:44
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, NSCD:71:515
Law Politics and Ground Water Management, Donald Stark, SEA:70:135
The Metropolis Runs Dry, Richard A. Hogarty, SEA: 70:329
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539
Planning for Clean Water in Terms of the Ecology and Social Environment, Percy H. McGauhey, CWFE:Mar 71:29
Politics Of Water Resources Development, Daniel M. Ogden, Jr., SEA:70:353
Problems of Water Quality Management in Western River Basin Systems, Arthur F. Pillsbury, IR73:Aug 73:729
Report on the Session on Planning for Clean Water in Terms of Ecology and the Social Environment, William F. Garber, CWFE:Mar 71:35
Review of "A Strategy for a Livable Environment", Bernard B. Berger, Chmn., SA6:Dec 67:171:5689
Salinity Status of Marl Soils in Southern Florida, E. H. Stewart, R. R. Alberts and P. G. Orth, SEA:70: 63
Sludges and Associated Problems Involving Agricultural Drains in Florida Wetlands, Harry W. Ford, SEA:70:15
Some Ecological Criteria for the Preparation and Review of Environmental Impact Statements, Conrad A. Istock, UT73:May 73:163
Tunnel Vision or Ecological View, Virginia M. Hines, IR3:Sept 71:397:8368
USBR Specifications Focus on Environment, Bernard P. Bellport, CE:July 71:50
Water Resources Management, Langdon W. Owen, SEA:70:157
20th Century Renaissance, Donald N. Anderson, PP3:July 73:373:9886

Economic Analysis
Allocating Water Among Alternative Uses, John E. Reynolds, IR1:Mar 71:85:7978
Alternative Water Resource Systems in the Lower Mekong, Kanchit Chaemsaithong, Lucien Duckstein and Chester C. Kisiel, HY3:Mar 74:461: 10430
Architectural Criteria of Tall Buildings in Germany and Europe, Fritz Rafeiner, TB:73:Ia-12-1151
Architecture of Tall Buildings, State-of-Art Report 8, Arthur James Mc Arthur, Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199

Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
Bridge Design Considering Scour and Risk, Emmett M. Laursen, TE2:May 70:149:7262
Broad Scope of Navigation's Economic Impact, Minard I. Foster, WW1:Feb 69:23:6389
Combined Sewer Considerations by Philadelphia, Carmen F. Guarino, Joseph V. Radziul and William L. Greene, SA1:Feb 70:1:7050
Concrete Strain Capacity Tests -- Their Economic Implications, Donald L. Houghton, ECCD:72:75
Cooling Water Sources For Power Generation, Louis G. Hauser, PO1:Jan 71:123:7804
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434
Damage Assessment of Household Water Quality, Dennis P. Tihansky, EE4:Aug 74:905:10700
Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Design Capacities to Accommodate Forecast Uncertainties, Paul M. Berthouex and Lawrence B. Polkowski, SA5:Oct 70:1183:7633
Design Using Symbolic Topological Equations, Dennis R. Lagerquist and Steven J. Fenves, EM3:June 69:695:6624
Earthquake Loading Response, Theme Report, Kiyoshi Muto, TB:73:Ib-6-151
Economical Construction of a Concrete Gravity Dam, Lewis H. Tuthill, ECCD:72:65
Economical Design of Prestressed Plate Girder, Miloslav Tochacek and Champa L. Mehta, ST6:June 72:1273:8973
Economic Analysis for Highways, by Robley Winfrey (Book Review), Jeffrey M. Zupan, CE:Mar 70:96
Economic Analysis of Housing Construction Methods, Shlomo Peer and Abraham Warszawski, CO2:Sept 72:287:9166
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255
Economic Aspects of Curing Mass Concrete, Bryant Mather, ECCD:72:39
The Economic Aspects of Water Pollution Control, James J. Flannery, WQEF:Mar 70:57
Economic Basis for Seismic Resistance, Herbert A. Sawyer, TB:73:Ib-6-319
Economic Consideration for Construction, Joseph Pirtz, Jr., ECCD:72:507
Economic Criterion for Highway Capacity Determination, Bruce G. Hutchinson, TE3:Aug 72:465:9120
Economic Design of Low Pressure Air Piping Systems, J. Michael Osborne, EE6:Dec 74:1263:11031
The Economic Evaluation of Irrigation in Humid Areas, Milton L. David and Gary M. Mennem, OIDS:72:443
Economic Evaluation of Water Deficiencies, Alan D. Kleinman, IRS:Sept 72:415
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
Economic Pipe Sizing in Pumped Irrigation Systems, Roland P. Perold, IR4:Dec 74:425:10988
Economic Planning for Staged Development, Kenneth E. Sorensen and Robert D. Jackson, HY5:Sept 68:1231:6114
Economics of Channels and Maneuvering Areas for Ships, Richard G. Waugh, Jr., WW4:Nov 71:671:8537
The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73:Ia-1-103
Economics of Solid Waste Investment Decisions, Robert M. Clark, UP1:Mar 70:65:7151
Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856
Environmental Systems, Summary Report, Henry J. Cowan, TB:73:Ia-1-289
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Evaluating Watershed Management Alternativee, Harry E. Brown, IR1:Mar 71:93:7952
Evaluation of Harbor Deepening Projects, Sunil K. Bhattacharya and Amarendra N. Biswas, WW1:Feb 73:111:9575
Evolution of Location and Design of TVA Power Substations, Robert C. St. Clair and John W. Sanders, EPCE:Aug 74:525
Float Valve Provides Variable Flow Rates at Low Pressures, John L. Merriam, IR73:Aug 73:385
Gap-Graded Aggregates for Mass Concrete, Shu-t'ien Li, ECCD:72:101
The Highway Explosion, Albert A. Bartlett, CE:Dec 69:71
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662
Investing in Urban Bicycle Facilities, Richard C. Podolske, TE3:Aug 74:687:10742
Irrigation Timing to Maximize Economic Crop Yields, Dan Salcedo and W. L. Meier, Jr., OIDS:72:81
A Least-Cost Analysis For The Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, CEO-II:70:269
Management of Solid Waste-The Utility Concept, Robert M. Clark, Richard O. Toftner and Thomas W. Bendixen, SA1:Feb 71:33:7875
Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933
Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72:1575:9206
Mobile Homes and New Communities, Herbert Behrend, UP2:Nov 74:181:10915
Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72:115
New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19
Open Space Accessibility for Recreation, Lawrence D. Mann, UP2:Dec 71:207:8607
Optimal Design for Highway Drainage Culverts, George K. Young, Jr., Mitchell R. Childrey and Roy E. Trent, HY7:July 74:971:10676
Optimal Routing of Refuse Collection Vehicles, Richard M. Bodner, E. Alan Cassell and J. Peter Andros, SA4:Aug 70:893:7451
Optimal Selection of Flexible Pavement Components, Salim S. Hejal, Thomas R. Buick and Joseph C. Oppenlander, TE2:Feb 71:1:7877
Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972
Optimization of Pipelines Transporting Solids, William A. Hunt and Irving C. Hoffman, PL1:Oct 68:89:6179
Optimization of Steel-Building Components, State-of-Art Report 4, Jan Brodka and Josef Wilbik, TB:73:II-14-201
Optimizing the Supply of Inland Water Transport, John F. Hoffmeister, III and Richard de Neufville, WW3:Aug 73:293:9926
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73:725:10126
Optimum Replacement Life Of Large Scrapers, Charles R. Schrader, CO1:Mar 71:37:8000
Origin, Purpose, and Status of Project, Robert A. Nelson, TE4:Nov 70:439:7655
Owner-Engineer-Contractor Economic Considerations in Dam Construction, Gerald T. McCarthy, ECCD:72:493
Owner-Engineer-Contractor Economic Considerations in Dam Construction, John S. Tamagni, ECCD:72:497
Owner-Engineer-Contractor Economic Considerations in Dam Construction, George L. Beard, ECCD:72:503
Panel on Owner-Engineer-Contractor Economic Considerations in Dam Construction, Geo. H. Atkinson, ECCD:72:483
Paved Highway Shoulders and Accident Experience, Clinton L. Heimbach, William W. Hunter and George C. Chao, TE4:Nov 74:889:10921

Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183

Planning Major Activity Center Distributor Systems, Michael J. Demetsky and Lester A. Hoel, TE1:Feb 74:237:10319

Planning Profitable Irrigation Investments in Missouri, Herman E. Workman, OIDS:72:491

Plant Layout for Economical Concrete Dam Construction, Clarence L. Gallimore, ECCD:72:209

Policies for Efficient Regional Water Management, W. Charles Howe and Blair T. Bower, IR4:Dec 70: 387:7721

Present State of the Grouting Industry in the United States, Joseph P. Welsh, EFFD:Mar 74:65

Principles and Standards -- Water and Land Planning, Gary D. Cobb, IRS:Sept 72:399

Probabilistic Approach to Estimating and Cost Control, Antonio J. Vergara and LeRoy T. Boyer, CO4:Dec 74:543:11021

Problems and Deficiencies: Economics and Environmental Considerations, David R. Miller, PITO:74:63

Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087

Proposed Transportation and Visitor Center, Robert W. Harris, TE3:Aug 70:301:7459

The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492

Public Works Capacity Expansion Based on Unit Cost, Carter H. Harrison, Jr., HY11:Nov 74:1707: 10955

Reevaluating Spillway Adequacy of Existing Dams, Russell W. Revell, Chmn., HY2:Feb 73:337:9571

Reexamination of Transportation Planning, Raymond H. Ellis, TE2:May 73:371:9752

Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214

Remote Nozzle Permits High Production and Safety, James S. Goff, SUSS:July 73:405

Replacement-Lock and Dam No. 26: Lock Capacity Procedure and Scope, Anson G. Eickhorst and DuWayne A. Koch, WW1:Feb 70:15:7094

Replacement-Lock and Dam No. 26: Projecting Waterborne Commerce-Inland Navigation, DuWayne A. Koch, WW1:Feb 70:9:7100

Reward-Risk Ratio, Marvin Gates and Amerigo Scarpa, CO4:Dec 74:521:10984

Risk Evaluations for Offshore Structures, Peter W. Marshall, ST12:Dec 69:2907:6981

Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935

Search for Economical Construction of Concrete Dams Based on Results of Observation, J. Laginha Serafim, M. Guerreiro and C. Gonzalez Florez, ECCD:72:311

Simulating Effects of Weather on Construction, Neal B.H. Benjamin and Theodore W. Greenwald, CO1: July 73:175:9888

Structural Systems, Summary Report -- Part II, Friedrich K. Reinitzhuber, TB:73:Ia-3-651

Summary of the Conference, Arthur J. Fox, Jr., ECCD:72:521

Summary of the Conference, Pierrepont E. Sperry, Jr., SUSS:July 73:441

Supercarriers Versus U.S. Harbor Dimensions, Francis P. Koisch, WW1:Feb 71:19:7904

Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625

Systems Innovations for Urban Transportation, Robert A. Burco and Clark D. Handerson, TE2: May 71:205:8126

Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793

Test of Air Cushion Vehicles in Public Transport, John L. Lambert, TE1:Feb 69:29:6391

Theme Report, Committee on the Survey of Tall Buildings, Neal FitzSimons, TB:73:C-AC14-87

Time-Capacity Expansion of Waste Treatment Systems, Thomas M. Rachford, Russell F. Scarato and George Tchobanoglous, SA6:Dec 69:1063:6957

Timing and Sizing of Complex Water Resource Systems, Leonard Becker and William Wen-Gong Yeh, HY10:Oct 74:1457:10883

Toward A Socio-Technology of High Rise Buildings, George Bugliarello and Harold Simon, TB:73:Ia-1-270

Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941

Unique Role of Water in a Developing Economy, Clark N. Crain and David W. Greenman, IR1:Mar 69:79:6439

Vertical Transportation, State-of-Art Report 4, Calvin L. Kort, TB:73:Ia-2-341

Volume Minimization of Thin Plates Subject to Constraints, Zachary Sherman and Ping-Chun Wang, EM3:June 71:741:8192

V/STOL Concepts for Short Haul Air Transport, Bernard L. Fry and R. William DeDecker, TE3: Aug 71:411:8277

Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996

Water-Yield Relations for Nonforage Crops, Lloyd A. Downey, IR1:Mar 72:107:8772

Weather Information and Irrigation Scheduling - I. Weather and Irrigation Demand, Wayne L. Decker, OIDS:72:65

Workshop A -- Advances in Concrete Technology, Samuel D. Burks, ECCD:72:153

Economic Development

Infrastructure Planning: Force Behind Port of Rotterdam's Growth, Sverre E. Bergh, CE:May 71: 79

Water Deficits -Irrigation Design and Programming, Robert M. Hagan and J. Ian Stewart, IR2:June 72: 215:8955

Water Resources Planning in Appalachia, Stephen S. Fuller, UP2:Oct 70:123:7599

Economic Factors

Economic Criterion for Highway Capacity Determination, Bruce G. Hutchinson, TE3:Aug 72: 465:9120

The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73: Ia-1-103

Economics of High-Rise Buildings, State-of-Art Report 4B, Walter F. Conlin, Jr., TB:73:Ia-1-119

National ASCE Drafts Proposed Salary Guidelines, CE:Jan 72:42

Sedimentation Engineering, Chapter VI: Economic Aspects of Sedimentation, Vito A. Vanoni, Chmn., HY1:Jan 69:191:6334

Economic Feasibility

How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107

Economic Forecasting

The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73: Ia-1-103

Economic Growth

How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal, Joseph L. Grant, PP2:Apr 73: 159:9663

Economic Impact

Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619

Economic Impact of the Conversion of Water from Irrigation to Municipal and Industrial Use in the Rio Grande Basin of New Mexico, Edwin A. Lewis, IR73:Aug 73:67

Intake System Assessment for Central Columbia River, David L. Schreiber, C. Dale Becker, James J. Fuquay and Ronald A. Chitwood, PO2:Dec 74:139: 11001

Simulation Techniques for Water Project Analyses, Milton L. Holloway and Lial F. Tischler, IR3:Sept 74:211:10784

Economic Justification

Economic Pipe Sizing for Gravity Sprinkler Systems, Roland P. Perold, IR2:June 74:107:10583

Economics

Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2: May 73:405:9745
Application of Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE1:Feb 74:61:10322
Barge Transportation-Energizer of Production and Marketing, Braxton B. Carr, WW2:May 69:163: 6559
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
Business Failures in Construction, John B. Shuler, CO2:Sept 67:73:5453
Capital Cost Minimization of Drainage Networks, Jarir S. Dajani and Yakir Hasit, EE2:Apr 74:325: 10448
Conceptual Problems in Water Quality Economics, Virgil Whiteley and Bill B. Dendy, SA5:Oct 68:841: 6149
The Design and Economics of Joint Wastewater Treatment Facilities, W. Wesley Eckenfelder, Jr. and Carl E. Adams, Jr., CWFE:Mar 71:291
Discrete Structural Optimization, Kenneth F. Reinschmidt, ST1:Jan 71:133:7829
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
Economic Location of Locks, Eric E. Bottoms, TE1: Feb 69:77:6397
Economics from the Viewpoint of Industry, Nelson L. Nemerow, CWFE:Mar 71:279
Economics of a Water-Yield Function for Sugar Cane, Howard C. Hogg, Jack R. Davidson and Jen-hu Chang, IR1:Mar 69:127:6448
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72, 171pp.
Economics of Water Quality and Wastewater Control, Fred E. Case, CWFE:Mar 71:115
Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856
Economics of Water Resources Planning, by L. Douglas James and Robert L. Lee (Book Review), Richard J. McDonald, CE:June 71:32
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
Electronic Traverse Versus Triangulation, John O. Phillips, SU2:Oct 67:29:5491
Equivalent Pipe Methods for Optimizing Water Networks--Facts and Fallacies, Pramod K. Swamee and P. Khanna, EE1:Feb 74:93:10375
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Fleet Selection for Solid Waste Collection Systems, Robert M. Clark and Billy P. Helms, SA1:Feb 72: 71:8720
Initial Economic Evaluation of Slurry Pipeline Systems, E. J. Wasp, T. L. Thompson and T. C. Aude, TE2:Apr 71:271:8106
Issues in Statewide Transportation Planning, Joseph S. Drake and Lester A. Hoel, TE3:Aug 70:379:7480
Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340
Managing Water Quality Economics, Technology, Institutions, by Allen V. Kneese and Blair T. Bower, Walter A. Lyon and Richard M. Boardman, CE:Apr 70:32
Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933
Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712
More Efficient Local Rural Road Administration, William D. Berg, TE4:Nov 74:975:10942
Movement and Distribution of Concrete by J. R. Illingworth (Book Review), Walter F. Conlin, Jr., CE:Oct 72:18
Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909: 10208
Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650
Planning Economical Tunnel Surveys, Bruce J. Thompson, SU2:Nov 74:95:10906
Practical Selection of Materials for Large Water Pipe, Donald P. Proudfit, TE1:Feb 69:203:6424
Pricing in Mass Transportation, Masatoshi A. Abe and Kumares C. Sinha, TE1:Feb 73:83:9551
A Professor Talks About Civil Engineering Education, CE:Aug 72:65
Replacement-Lock and Dam No. 26: Projecting Waterborne Commerce-Inland Navigation, DuWayne A. Koch, WW1:Feb 70:9:7100
Safe Yield of Aquifers: An Economic Reformulation, Robert A. Young, IR4:Dec 70:377:7719
Sensitivity Analysis of Wind Generated Wave Predictions, Charles D. D. Howard, WW2:May 71: 365:8153
Simulation Techniques for Water Project Analyses, Milton L. Holloway and Lial F. Tischler, IR3:Sept 74:211:10784
A Statement of National Highway Transportation Policy, by the Committee on Transportation Policy of the Tranportation Engineering Coordinating Committee, Harold W. Hansen, Chmn., TE3:Aug 69:399:6717
Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91
Ten-Year Research Program in Surveying and Mapping, Morris M. Thompson, SU2:Oct 67:9:5486
Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259

Economic Surveys

The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73: Ia-1-103

Economies

General Aviation in Our Transportation System, George P. Coker, ASC73:Mar 73:133

Ecosystems

Stochastic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE3:June 74:613:10578

Ecuador

Measured And Predicted Evaporation At Pasaje, Ecuador, M. Riazul Hasan and Peris S. Jones, TN: IR3:Aug 72:511:9160

Eddies

Eddy Formation Behind Circular Cylinders, Alan D. K. Laird, HY6:June 71:763:8170
Formation of Flood Plain Lands, Walter C. Carley, HY3:May 69:981:6574
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441: 9618

Edge Effect

Limit States Design of Slabs Using Lower Bound Approach, B. Vijaya Rangan, ST2:Feb 74:373:10348

Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617
Membrane Solutions for Shells with Edge Constraint, Charles R. Steele, EM3:June 74:497:10605
Numerical Solution of Moderately Thick Plates, Rajabhau S. Deshmukh and Robert R. Archer, EM5:Oct 74:903:10860
Vibration of Circular Plates with Edge-Beams, Richard J. Stuart and John F. Carney, III, TN: EM4:Aug 73:907:9898

Education
ASCE'S Response to the Spencer Proposals, Board of Direction, ASCE, CE:Aug 70:46
Bachelor of Civil Engineering Technology at the University of North Carolina at Charlotte, Richard R. Phelps, CEE:Feb 74:1-254
Bachelor of Technology: Six Years Experience, John D. Antrim, Milan E. Degyansky and William A. Welsh, CEE:Feb 74:1-231
Berkeley Offers Professional Masters Degree, Howard D. Eberhart, CE:Nov 73:74
Black People Call for ASCE Social Action, Ralph E. Spencer, CE:Dec 69:73
Building a Professionally Qualified Faculty, King S. Luk and Eugene H. Kopp, EI2:Apr 74:105:10466
Can Continuing Education Teach Experience?, Arthur B. Gruver, CEE:Feb 74:1-825
The Civil Engineer as a Sales Engineer, James M. Dockey, CE:Feb 71:78
Civil Engineering and Public Affairs: New Direction in Undergraduate Education at Carnegie-Mellon University, Francis Clay McMichael, CEE:Feb 74: 1-689
Civil Engineering Curricula -- An Evaluation, H. Gordon Larew and John P. Bradshaw, CEE:Feb 74: 1-406
Civil Engineering Education: A Preparation for Management, John A. Havers, PP1:Sept 70:1:7544
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
Civil Engineering: Flexible or Rigid Program, Howard I. Epstein, CEE:Feb 74:1-16
Civil Engineering Management in Private Practice, Elmer K. Timby, PP1:July 69:17:6661
Civil Engineering's Role in Construction Education, Henry W. Parker, CEE:Feb 74:1-573
The Civil Engineer of the Future - A Renaissance Man, David A. Novick and Sheldon Schumacher, PP1:Jan 73:9:9489
Civil Engineers Need Construction Education, Walter L. Moyer and Robert I. Carr, CEE:Feb 74:1-545
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489
Construction Course for Junior High Schools, Donald G. Lux and Willis E. Ray, CE:May 71:37
Construction Education at North Carolina State, George H. Blessis, CEE:Feb 74:1-613
A Consulting Firm in Civil Engineering Education: A History of Four Years of Participation, Eben Vey and David A. Novick, CEE:Feb 74:1-927
The Continuing Challenge of Engineering Education, Arthur G. Hansen, PP3:July 72:351:9037
Continuing Education for the Engineering Educator, Edward J. Rhomberg and David A. Novick, CEE: Feb 74:1-955
Continuing Education of Construction Management Personnel, Kenneth R. Ware, CEE:Feb 74:1-881
Continuing the Enchancement of Mankind's Welfare: A Civil Engineer's Responsibility for Professional Development and Maintenance of Competence, C. Allen Wortley, CEE:Feb 74:1-808
Corps of Engineers Promotes Continuing Education, Melford E. Monsees, CE:Jan 72:63
Critical Need for Civil Engineering Technicians, Ellis Vieser, CE:Aug 69:61
Currents in Civil Engineering Education, Russel C. Jones, CEE:Feb 74:2-90
Design Conduit System By Dynamic Programming, Rex K. Liang, CO1:Mar 71:383:7998
Development of a Curriculum in Construction Engineering, Thomas C. Jellinger, CEE:Feb 74:1-654
Development of a Planning Program: A Case Study, William K. Johnson, Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71
Doctoral Education and the Practicing Professional, Warren J. Baker and Edward J. Rhomberg, CEE: Feb 74:1-764
Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442
Educational TV Film Spots for Engineering, Kaye Finch, Frederick O. Leidel and James R. Villemonte, CEE:Feb 74:1-1015
Education and Training Viewed by a Younger Member, James F. Stahl, CWFE:Mar 71:261
Education for Leadership, C. Maxwell Stanley, CEE: Feb 74:1-312
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
Education Profile for Consulting Engineering: A Case Study (Discussion), Melvin I. Esrig, CEE:Feb 74:2-314
Education Today for Environmental Challenges Tomorrow, Russell S. Stearns, PP1:Oct 70:67:7554
Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367: 9751
Effects of Environmental Concerns on Education, Paul W. Purdom, CEE:Feb 74:1-508
Engineering Education and a Professional Ethic, Charles R. Schrader, PP1:Oct 71:147:8460
Engineering Education and the Origins of Modern Structures, David P. Billington, CE:Jan 69:52
Engineering Education for Public Participation, John W.N. Fead, CEE:Feb 74:1-525
Engineering Education Versus Engineering Practice, Michael N. Goodkind, CEE:Feb 74:1-452
Engineering Manpower: Supply and Demand Relationships, Robert D. Kersten and John Paul Hartman, CEE:Feb 74:1-479
Engineering Registration-License for What?, John W. Frazier, PP1:Sept 70:103:7562
Engineering Students Learn Social Awareness at UMR, Fred Lamar, CE:May 74:54
Engineering Technology at Florida International (Bachelor's Programs for a Major Urban Region), Robert W. Ellis, Jr., CEE:Feb 74:1-264
"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
Environmental Engineering Education -- An Employer's View, John E. Ball and John B. Malouf, CEE:Feb 74:1-426
Environmental Management Broadening the Base of Civil Engineering Education, William H. Matthews, CEE:Feb 74:1-518
Federal Funds Available to Sections for Minority Programs, Stephen L. Tuttle, CE:Feb 73:66
A Flexible Civil Engineering Curriculum, James P. Olson and Joseph C. Oppenlander, CEE:Feb 74:1-48
Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2: Dec 71:149:8568
Guidance and Motivational Programs, Stephen L. Tuttle, Bob Younger, Jack Pitts and John Moran, CEE:Feb 74:1-996
Hardy Cross and the Rise of Numerical Methods, James Michalos, ST3:Mar 72:691:8762
How to Entice Minority Youth into Engineering, Howard Jackson, CE:July 74:54
The Human Ethic, Charles R. Schrader, PP1:July 69: 73:6700
Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913
Involvement of Practitioners in Education for the Practice of Law, Millard H. Ruud, CEE:Feb 74:2-210
Involvement of Practitioners in Education for the Practice of Medicine, James F. Schieve, CEE:Feb 74:2-218

Issues of Environmental Engineering Education, Wesley O. Pipes, CEE:Feb 74:1-496
Making Civil Engineering Relevant I, Arthur J. Fox, Jr., CEE:Feb 74:1-1
Management Degree Program for Employed Public Works Directors, A. Morgan Johnson, CEE:Feb 74:1-728
Management Education for Civil Engineers, Stephens W. Nunnally and William H. Wisely, CEE:Feb 74:1-696
Mid-Career Administrative Training for Engineers, William D. Brinckloe, EI4:Oct 74:325:10866
The Military Draft: Educational and Occupational Deferments for Engineers, Betty M. Vetter, CE:May 69:67
Modern Civil-Environmental Engineering Curriculum, Herman A.J. Kuhn and William D. Berg, CEE:Feb 74:1-104
Multi-Discipline Case Study Approach to Education in Project Planning, William S. Gaither and Dennis R. Neuzil, CE:Dec 70:35
National Environmental Policy Act of 1969 and Engineering Curriculum, Joseph Nemec, Jr., CE:Mar 73:64
The Nature of Continuing Education, Alfred C. Ingersoll, CWFE:Mar 71:229
The Nature of Education in Environmental Engineering at Universities, Rolf Eliassen, CWFE:Mar 71:221
Neglected Responsibilities of Undergraduate Education, John P. Klus, CEE:Feb 74:1-566
A New Profile for Engineering -- Emergence of a Learned Profession, Cornelius Wandmacher, CEE:Feb 74:1-469
Noise Control and Civil Engineering, Edward M. Krokosky and Clive L. Dym, CE:May 74:45
Option Packages for Undergraduate Technical Depth, Russel C. Jones, CEE:Feb 74:1-32
Partners as First-Class Engineering Technicians, James C. Farley and Noel L. Caldwell, CEE:Feb 74:1-286
PennState Civil Engineering Construction Education, Jack H. Willenbrock, CEE:Feb 74:1-628
Practioner-Oriented Post-Baccalaureate Education, Ralph E. Fadum, CEE:Feb 74:1-794
Practitioners Teach Students Art of Highway Engineering, David A. Novick, Howard S. Newman and Eben Vey, CE:Jan 72:45
Professional Development for Consulting Engineers, Gerald L. Baker, PP1:Jan 72:49:8662
The "Professional" Faculty, Waldron Murrill McLellon and Robert D. Kersten, CEE:Feb 74:1-800
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552
The Professional School - A Sleeping Giant, Grover L. Rogers and James H. Schaub, CEE:Feb 74:1-752
Professional Schools and Programs, M. R. Lohmann, CEE:Feb 74:2-125
Professional Schools for Civil Engineering Education, James H. Schaub, CEE:Feb 74:1-735
Promising Trends in Education in Public Works Engineering, Herbert A. Goetsch, CEE:Feb 74:2-114
A Proposed Doctor of Engineering Program, Fred J. Benson and Charles H. Samson, Jr., CEE:Feb 74:1-772
Recycling Civil Engineering Education, William K. Johnson, CE:Oct 71:101
Role of ASCE Student Chapters in Engineering Education, T. A. Austin and J. J. Valenta, CEE:Feb 74:1-980
Role of a Small College in Education of Engineers, Jon A. Cole and Edward F. Cross, CEE:Feb 74:1-55
The Role of the Professional in Architectural Education, David Clarke, CEE:Feb 74:2-202
A Sabbatical Leave with a Consulting Firm, Peter George Hoadley, CEE:Feb 74:1-950
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73:81:9832
Social and Environmental Factors in Design, Kneeland A. Godfrey, Jr., CE:Sept 70:48
The Socio-Engineering Program at S.U.N.Y.-Buffalo, George C. Lee, CEE:Feb 74:1-703
Socio-Technical Programs in Civil Engineering at O.S.U., Michael B. Godfrey and Elbert E. Whitlatch, Jr., CEE:Feb 74:1-713
Student Assistance for Local Governments, Lansford C. Bell, CEE:Feb 74:1-143
The Survey Engineer - A Rare Species, Arthur J. McNair, SU1:Apr 70:37:7197
Survey of Training Programs for Civil Engineers, Jose J. Correa, CE:Aug 69:49
Technician and Technologist Education in 1974, John L. Rumpf, CEE:Feb 74:1-210
Technician and Technology Programs, John L. Rumpf, CEE:Feb 74:2-49
Technician Manpower Needs in Florida, Richard D. Ray, CEE:Feb 74:1-279
Transit Industry Educational Interests, Frederick J. Wegmann and Edward A. Beimborn, EI4:Oct 74:313:10863
Transportation Education and Research: A Multidisciplinary Approach, C. Michael Walton and William Ronald Hudson, CEE:Feb 74:1-200
Unfinished Business, Arthur J. Fox, Jr., CE:Mar 71:57
University Teaching by Practicing Engineers, King S. Luk, CEE:Feb 74:1-945
Urban Degradation and Building Systems, Murray A. Muspratt, UP2:Sept 73:235:10003
Women in Civil Engineering Education, Judith S. Liebman, CEE:Feb 74:1-993
WPI Plan -- From Concept to Reality, Armand J. Silva and William R. Grogan, CEE:Feb 74:1-64
WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121

Education-Practice Interchange
Civil Engineering Education - A Mechanism for Interaction with Urban Practice (Discussion), Albert A. Grant, CEE:Feb 74:2-325
Civil Engineering Education - Goals and Policy: The Practicing Engineer's Viewpoint, Thomas C. Kavanagh, CEE:Feb 74:2-262
Civil Engineering Practice - Overview and Current Trends, Charles W. Yoder, CEE:Feb 74:2-11
Committee Rap Sessions (Panel Discussions), CEE:Feb 74:2-254
A Consulting Firm in Civil Engineering Education: A History of Four Years of Participation, Eben Vey and David A. Novick, CEE:Feb 74:1-927
Continuing Education for the Engineering Educator, Edward J. Rhomberg and David A. Novick, CEE:Feb 74:1-955
Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442
Educational Needs for Engineering Practice and Recommended Follow-Up Program (Discussion), George J. Kral, CEE:Feb 74:2-345
Education and the Job Market, Lucien Kraner, CEWAU:74:279
Evaluation of a University-Industry Interaction Program, Subhash C. Anand and Marvin E. Criswell, CEE:Feb 74:1-971
Feedback from Engineering Practitioners - Summary and Review, Joseph S. Ward, CEE:Feb 74:2-79
Financial Consideration of Practicing Engineers in the Classroom (Discussion), Evan H. Curtis, CEE:Feb 74:2-333
Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913
Improved Monitoring of Civil Engineering Education - The Need and a Method (Discussion), Richard G. Coulter, CEE:Feb 74:2-329
Interchange, Ethics, Accreditation, Needs of Practice (Panel Discussions), CEE:Feb 74:2-243

Involvement of Practitioners, Broadening the Program, Technology Graduates, Students and Guidance (Panel Discussions), CEE:Feb 74:2-234
Involvement of Practitioners in Education for the Practice of Law, Millard H. Ruud, CEE:Feb 74:2-210
Involvement of Practitioners in Education for the Practice of Medicine, James F. Schieve, CEE:Feb 74:2-218
The Last Word, Arthur J. Fox, Jr., CEE:Feb 74:2-285
The Making of a "Pro"—A Faculty Viewpoint, Dan H. Pletta, EI3:July 74:217:10645
The ME(Civil) Program at Cornell University - Part II - Program Implementation, Richard N. White, Vaughn C. Behn, Gerard F. Fox and Arthur Adams, CEE:Feb 74:1-787
Promising Trends in Continuing Education - Programs Available, Alfred C. Ingersoll, CEE:Feb 74:2-149
Promising Trends in Interchange between Education and Practice, David A. Novick, CEE:Feb 74:2-180
Proposed New ASCE Policy on Engineering Education, by Ad Hoc Subcommittee for Revision of Policy C-37, William W. Moore, Chmn., John L. Rumpf, Leo W. Ruth, James H. Schaub and Ralph H. Wallace, CEE:Feb 74:1-905
The Role of Consulting in Faculty Development, Furman W. Barton, Fred C. McCormick and Henry L. Kinnier, CEE:Feb 74:1-962
The Role of the Professional in Architectural Education, David Clarke, CEE:Feb 74:2-202
A Sabbatical Leave with a Consulting Firm, Peter George Hoadley, CEE:Feb 74:1-950
Teaching Design with Practicing Engineers (Five Years of Experience), John J. Cassidy, CEE:Feb 74:1-937
Trends in Faculty Qualifications and Objectives, Dan H. Pletta, CEE:Feb 74:2-168
University Teaching by Practicing Engineers, King S. Luk, CEE:Feb 74:1-945

Eductors
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452

Effectiveness
Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527

Effective Stress
Analysis of Observed Embankment Performance in Terms of Effective Stress, Koichi Akai, Masahiko Komatsu and Masanari Tominaga, PES:72:I-341
Bonding, Effective Stresses and Strength of Soils, T. S. Ramanatha Iyer, Awtar Singh and Richard G. Campanella, SM5:Sept 69:1219:6786
Contact Pressure of a Rigid Circular Foundation, Michael M.K. Ho and R. Lopes, SM3:May 69:791:6554
Effective Stress Principle in Saturated Clay, H. E. Evans and Roland W. Lewis, SM2:Mar 70:671:7183
Predicting Effective Stress Paths, James P. Olson and Harvey E. Wahls, TN: SM8:Aug 71:1139:8307
Property Interrelationships in Sensitive Clays, William N. Houston and James K. Mitchell, SM4:July 69:1037:6666

Efficiency
Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190
Critique of Water Pollution Control Act, Anthony H.J. Dorcey and Irving K. Fox, EE1:Feb 74:141:10326
Efficiency of Hydraulic Jump, Satya P. Garg and Hari R. Sharma, HY3:Mar 71:409:7994
Evaluating Transportation Systems, Robert N. Young, William C. Ockert and Charles E. Pixton, TE2:May 71:347:8131
Introduction to Section I: Problem Definition, Daniel Brand, UTI:71:1
Irrigation Adequacy with Center Pivot Sprinklers, Douglas Anderson and Robert J. Brown, IRS:Sept 72:353
Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916
Multivariate Study of Refuse Collection Efficiency, Lawrence J. Partridge, Jr. and Joseph J. Harrington, EE4:Aug 74:963:10729

Effluent Reuse
Change in Quality of Pumped Drainage Effluent, Enos J. Carlson, IR73:Aug 73:195

Effluents
Analytic and Process Classification of Effluents, T. Helfgott, J. V. Hunter and D. Rickert, SA3:June 70:779:7374
Change in Quality of Pumped Drainage Effluent, Enos J. Carlson, IR73:Aug 73:195
Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, NSCD:71:585
Clarification of Book-Mill Effluent by Enzyme-Alum, Yeun C. Wu, EE3:June 74:541:10573
Coastal Processes from Space Photography, Maynard M. Nichols, 12CEC:71:641
Industrial Waste Surcharges, Robert L. Coughlin, CWFE:Mar 71:323
Lateral Spreading of Heated Discharge, John C. Sonnichsen, Jr., PO3:July 71:623:8245
Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253:9795
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
Trapping of Outfall Constituents behind Sills, T. Carstens and A. Sjoberg, 12CEC:71:1917
Water Quality and Effluent Standards of Hawaii, Gordon L. Dugan, Reginald H.F. Young and L. Stephen Lau, HY9:Sept 74:1245:10824

Egypt
The Nile Delta Coastal Protection Project, Ismail E. Mobarek, CE13:72:II-1409
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814

Eigenvalues
Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782
Eigenvalue Uncertainty in Stressed Structures, Gary C. Hart, EM3:June 73:481:9780
End Effects in Truncated Semi-Infinite Wedge, Robert Wm. Little and Tommie R. Thompson, EM5:Oct 72:1239:9251
Maximization of Eigenvalues by Conjugate Gradients, Carlos A. Prato, TN: ST1:Jan 70:171:7025
Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3:June 72:561:8958
Postbuckling Behavior of Open Cylindrical Shells, Kuang-Han Chu and Peter Turula, EM6:Dec 70:877:7723
Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
Torsional Vibrations of Conical Frustum, Surendra R. Shah, EM5:Oct 71:1521:8452

Eigenvectors
Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3:June 72:561:8958

Ejectors
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452

Elastic Analysis

Analysis of Elastic-Plastic Shells of Revolution, Mahmoud Khojasteh-Bakht and Egor P. Popov, EM3:June 70:327:7354
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Elastic Analysis and Design, Summary Report, Leo Finzi, TB:73:II-14-247
Elastic Analysis and Design, Theme Report, Edwin H. Gaylord, TB:73:II-14-153
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elastic Analysis of Tall Concrete Buildings, Jacob Gluck, TB:73:III-21-300
Elastic Analysis-Strength of Members and Connections, Summary Report, Bruno Thurlimann, TB:73:III-21-325
Elastic Analysis With Indeterminate Boundary Conditions, Antone F. Sayegh, EM1:Feb 74:49:10357
Maximum Strength Elastic Structural Design, J. E. Taylor, EM3:June 69:653:6617
Methods of Analysis, Bernardo J. Deschapelles, TB:73:III-21-309
Optimum Elastic Design of Redundant Trusses, David Johnson and Derick M. Brotton, ST12:Dec 69:2589:6938
Optimum Stiffness and Strength of Elastic Structures, Ernest F. Masur, EM5:Oct 70:621:7580
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337:9404
Reinforced Concrete Columns, State-of-Art Report 5, Ignacio Martin, TB:73:III-21-223
Reinforced Concrete Columns, State-of-Art Report 5, Ignacio Martin, TB:73:III-21-223
Stresses in Walls Due to Vertical Loads, Gunnar Karrholm and Hans Petersson, TB:73:III-21-302
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147
Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, Miguel Carlos Stamato, TB:73:III-24-683
Three-Dimensional Bar Cell for Elastic Stress Analysis, Alexander Hrennikoff and A. Gantayat, EM3:June 70:313:7352

Elastic Deformation

Elastic Behavior of Sand, Mohamed A. El-Sohby, SM6:Nov 69:1393:6916

Elastic Foundations

Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE1:Feb 72:37:8699
Beam Columns on Elastic Foundations, Sridhara D.N. Murthy and Archibald N. Sherbourne, TN: EM3:June 71:1033:8160
Elastic Foundation Representation of Continuum, David Q. Fletcher and Leonard R. Herrmann, EM1:Feb 71:95:7932
Performance of Foundation for Altair Radar, Robert V. Whitman, Dirk R. Casagrande, Kjell Karlsrud and Richard M. Simon, SM1:Jan 71:1:7809
Pile Stability, Part 1 -- Elastic Soil, Peter J. Hoadley, GT74:June 74:225
Rectangular Loads on Inhomogeneous Elastic Soil, Peter T. Brown and Robert E. Gibson, TN: SM10: Oct 73:917:10042
Static and Dynamic Stability of an Imperfect Beam, Jorn S. Hansen and John Roorda, EM2:Apr 73:271:9647
Stiffened Mats on Expansive Clay, Robert L. Lytton and Kirby T. Meyer, SM7:July 71:999:8265
Stresses in Circular Plates on Elastic Foundations, Richard Bolton, EM3:June 72:629:8972
Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092

Elasticity (Mechanical)

Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808
Viscoelastic Plate on Poroelastic Foundation, Eugene L. Marvin, EM4:Apr 72:911:9133

Elastic Modulus

Axial Stress-Strain Characteristics of Sand, Herbert Breth, Ernst Schuster and Prabhakar J. Pise, SM8: Aug 73:617:9919
Dynamic Moduli and Damping Ratios For Soft Clay, William D. Kovacs, H. Bolton Seed and Clarence K. Chan, SM1:Jan 71:59:7813
Elastic Behavior of Cohesionless Soil, Igor Holubec, SM6:Nov 68:1215:6216
Rock Mechanics Studies for Mossyrocky Arch Dam, David E. Kleiner and Richard C. Acker, PO1:Jan 71:11:7795
Shape of the Complete Stress-Strain Curve for Rock, John A. Hudson, Edwin T. Brown and Charles Fairhurst, RM13:72:773
Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219

Elastic-Plastic Analysis

Behavior of Elastic-Plastic Frames, Alfred Korn and Theodore V. Galambos, ST5:May 68:1119:5942
Buckling of Wide Flange Columns About Minor Axis, Subhash C. Anand, Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513
Convenient Form Of Stress Invariants For Plasticity, Gyan C. Nayak and Olgierd C. Zienkiewicz, TN: ST4:Apr 72:949:8838
Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920
Expansion of Cavities in Infinite Soil Mass, Aleksandar Sedmak Vesic, SM3:Mar 72:265:8790
Finite Element Thermoelastoplastic Analysis, Norman A. Cyr, Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068
Inelastic Stability of Unbraced Building Frames, Chitti Vijakkhana, Fumio Nishino and Seng-Lip Lee, ST3:Mar 74:645:10433
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan S. Sandler, EM6:Dec 73:1181:10210
Nonlinear Stress Analysis of Reinforced Concrete, Somasundaram Valliappan and T. F. Doolan, ST4: Apr 72:885:8845
Post-Buckling of Axially Compressed Plates, Archibald N. Sherbourne and Robert M. Korol, ST10:Oct 72:2223:9239
Shakedown of Rolling Wheel under Hub Loading, Subhash C. Anand and Vijay K. Garg, EM6:Dec 74:1237:11035

Elastic Properties

Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
Anchor Zone Stresses in Prestressed and Concrete Beams, Kashi T. Sundara Raja Iyengar, Raja Sundara and Mandanapalli K. Prabhakara, ST3:Mar 71:807:7961
Bridge Analysis Using Orthotropic Plate Theory, Conrad P. Heins, Jr. and Charles T.G. Looney, ST2:Feb 68:565:5822
Buckling of Polar Orthotropic Annular Plates, Kaja Vijayakumar and C. V. Joga Rao, EM3:June 71:701:8171
Collocation and Eigenfunctions in Plane Elastostatics, Harry D. Knostman and Isadore K. Silverman, EM3:June 68:797:5998
Column-Plate Interaction in Flat Slab Structures, Dieter D. Pfaffinger, ST1:Jan 72:307:8670
Comparison of Footing Vibration Tests with Theory, Frank E. Richart, Jr. and Robert V. Whitman, SM6:Nov 67:143:5568
Complementary Energy Method for Buckling of Plates, Cenap Oran, EM2:Apr 68:621:5911
Complementary Energy Method for Buckling of Arches, Cenap Oran, EM2:Apr 68:639:5912

Concentrated Loads Applied to Shallow Shells, Rudolf Elling, EM2:Apr 73:319:9651
Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925
Drawdown in Compressible Unconfined Aquifer, Tatiana D. Streltsova, HY11:Nov 74:1601:10950
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72: 1005:9363
Effect of Curvature on Nonlinear Frame Analyses, Mike E. James, Jr., Thomas J. Kozik and Jose E. Martinez, ST7:July 74:1451:10681
Effect of Major Axis Curvature on I-Beam Stability, Nicholas S. Trahair and Scott T. Woolcock, EM1: Feb 73:85:9548
Effect of Skew Penetration on Stress Concentration, Fernand Ellyin and Archibald N. Sherbourne, EM6:Dec 68:1317:6265
Elastic Analysis for Behavior of Rockfill, Neville O. Boughton, SM5:Sept 70:1715:7532
Elastic Analysis of Zoned Orthotropic Continua, Geoffrey R. Tomlin and Roy Butterfield, EM3:June 74:511:10604
Elastic Behavior of Biaxially Loaded Steel Columns, Ishwar C. Syal and Satya S. Sharma, ST3:Mar 70: 469:7143
Elastic Characteristics of Mooring Lines, Basil W. Wilson, BMS:71:80
Elastic Characteristics of Moorings, Jean Sommet, BMS:71:93
Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72: 47:8717
Elastic-Plastic Analysis of Frameworks, Glenn A. Morris and Steven J. Fenves, ST5:May 70:931:7293
Elastic-Plastic Bending of Rectangular Plates, Gerald W. May and Kurt H. Gerstle, ST7:July 71:1863: 8237
Elastic Stability of Symmetrical Single-Bay Frames, D. Melville Porter, TN: ST8:Aug 70:1857:7446
Experimental Study of Flexural-Torsional Buckling, Alois J. Hartmann, ST7:July 70:1481:7414
Field Studies of Response of Peat to Plate Loading, J. B. Forrest and I. C. MacFarlane, SM4:July 69: 949:6652
Finite Element Approach to Plane Microelasticity, Mohammed H. Baluch, John E. Goldberg and Severino L. Koh, ST9:Sept 72:1957:9203
Finite Element Large Deflection Analysis of Plates, David W. Murray and Edward L. Wilson, EM1:Feb 69:143:6398
Finite Element Method for Wood Mechanics, Adam Al-Dabbagh, James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784
Finite Element on Elastic Foundation, Henry T.Y. Yang, ST10:Oct 70:2083:7604
Frequency Analysis of Complete Spherical Shells, Carl F. Long, EM3:June 69:505:6591
Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828
Geometrically Nonlinear Analysis by Stiffness Method, James A. Stricklin, Walter E. Haisler and Walter A. Von Riesemann, ST9:Sept 71:2299:8392
Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, EM3:June 74:599:10620
Improved Two-Dimensional Finite Element, Robert D. Cook, ST9:Sept 74:1851:10808
Inelastic Flexural-Torsional Buckling, Alois J. Hartmann, EM4:Aug 71:1103:8294
Integral Equation Method for a Corner Plate, Cecil M. Segedin and D. Brickell, ST1:Jan 68:41:5711
Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439: 10232
Machine Stress Rated Lumber: Challenge to Design, William L. Galligan and Delos V. Snodgrass, ST12: Dec 70:2639:7772
Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746
Nonlinear Analysis of Pin-Jointed Space Trusses, Marcelo Epstein and Yair Tene, ST9:Sept 71:2189: 8357
Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10: Oct 73:2011:10091
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Nonlinear Parameters of Vibrating Foundations, O.M. Christof Ehrler, SM6:Nov 68:1199:6208
Nonlinear Stress-Strain Formulation for Soils, Ross B. Corotis, M. Hassan Farzin and Raymond J. Krizek, GT9:Sept 74:993:10811
Nonlinear Structural Analysis by Energy Search, Robert H. Mallett and Lucien A. Schmit, Jr., ST3: June 67:221:5285
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
Nonuniform Torsion of Steel Beams in Inelastic Range, Charles R. Farwell and Theodore V. Galambos, ST12:Dec 69:2813:6964
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
Optimal Design for Prescribed Buckling Loads, Kalayya Narayana Murthy and Paul P. Christiano, ST11:Nov 74:2175:10912
Physical Strains in Nonlinear Thin Shell Theory, Peter G. Glockner and J. P. Shrivastava, EM6:Dec 69:1331:6956
Post-Buckling Behavior of Determinate Beams, Scott T. Woolcock and Nicholas S. Trahair, EM2:Apr 74: 151:10471
Recoverable Deformation Of Cohesionless Soils, Max D. Coon and Roger J. Evans, S&M2:Feb 71:375: 7911
Response of Slender Columns to Rapid Compression, Martin L. Moody, EM1:Feb 69:211:6403
Series Solution to Problems in Elastodynamics, Wilfred W. Recker, EM4:Aug 71:1257:8328
Settlement of Building on Pile Foundation in Sand, Robert M. Koerner and Antal Partos, GT3:Mar 74: 265:10405
Stability and Boundedness Via Liapunov's Direct Method, Siegfried M. Holzer, EM5:Oct 72:1273: 9280
Stability of a Submerged Stiffened Cylinder, Paul R. Paslay, EM6:Dec 67:179:5690
Stress Concentrations Near Holes in Laminates, Richard M. Barker, Jon R. Dana and Charles W. Pryor, Jr., EM3:June 74:477:10590
Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
Structure-ground Interaction in Earthquakes, Johann H. Rainer, EM5:Oct 71:1431:8422
Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6: Dec 72:1417:9446
Theoretical Lateral Resistance of Nailed Joints, Thomas Lee Wilkinson, ST5:May 71:1381:8121
Theory of Nonlinear Elastic Structures, Graham H. Powell, ST12:Dec 69:2687:6943
Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823: 9095
Thin Laminates with Homogeneous Elastic Properties, Joel I. Abrams and Ernest R. Scheyhing, EM6:Dec 70:847:7758
Three-Dimensional Vibrations of Orthotropic Cylinders, Fang-Hui Chou and Jan D. Achenbach, EM4:Aug 72:813:9102
Torsion of Multilayered Rectangular Section, John R. Booker and Sritawat Kitipornchai, EM5:Oct 71: 1451:8415
Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248
Use of Concentration Index for Pavement Design, Richard G. Ahlvin, Yu Tang Chou and Harry H. Ulery, Jr., TE1:Feb 74:135:10349
Variational Approach to Beams on Elastic Foundations, N. S. V. Kameswara Rao, Y. C. Das and M. Anandakrishnan, EM2:Apr 71:271:8034
Wave Propagation in Transversely Isotropic, Layered Cylinders, Henry E. Keck and Anthony E. Armenakas, EM2:Apr 71:541:8071

Elastic Shells
Dynamic Response of Imbedded Cylindrical Shell, Raymond Parnes, EM2:Apr 71:421:8073
End Effects in Truncated Semi-Infinite Wedge, Robert Wm. Little and Tommie R. Thompson, EM5:Oct 72:1239:9251
Invariant Multicouple Theory of Shells, Gerald A. Wempner, EM6:Dec 72:1397:9444
Physical Strains in Nonlinear Thin Shell Theory, Peter G. Glockner and J. P. Shrivastava, EM6:Dec 69:1331:6956

Elastic Theory
Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71:1675:8577
Elastic Plastic Bending of Circular Plates, Narendra K. Srivastava and Archibald N. Sherbourne, EM1:Feb 71:13:7902
Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72:1325:9417
Small Vibrations of Uniformly Compressed Isotropic Elastic Solids, Paul Seide, TN: EM4:Aug 71:1337:8273
Stress Analysis of Hollow Cylindrical Inclusions, Sidiq M. Dar and Robert C. Bates, GT2:Feb 74:123:10364
Stresses Under Linearly Loaded Rectangular Area, Jean-Pierre Giroud, SM1:Jan 70:263:7040

Elastic Waves
Elastic Waves in Half-Space with Thin Barrier, Jacob Aboudi, EM1:Feb 73:69:9536
Screening of Surface Waves in Soils, Richard D. Woods, PISST:71:407

Elastomers
Elastomeric Bridge Bearings, Charles E. Rejcha, CE: May 72:46

Elasto-Plastic
Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
Projectile Penetration of Elastic-Plastic Earth Media, Lewis Thigpen, GT3:Mar 74:279:10414

Elections
After Agnew: What's Happening In The Profession, Virginia Fairweather, CE:Mar 74:52
The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667
The Civil Engineer and Elective Office, Brian J. Lewis, CE:Apr 74:65
New Election Procedures Proposed, CE:June 74:74

Electrical Design
Computers: Key to Integrated Building Design, Kenneth F. Reinschmidt, CE:Mar 72:74

Electrical Equipment
Electrical Dispersion in Relation to Soil Structure, James K. Mitchell and Kandiah Arulanandan, SM2:Mar 68:447:5853
Electrical Systems in Tall Buildings, State-of-Art Report 5, Jo Chen Strunk, TB:73:Ia-2-349
Service Systems, Theme Report, Richard Baum, TB:73:Ia-2-305

Electrical Insulators
Chicago's Northwest Incinerator, Milton Pikarsky, CE:Sept 71:55

Electrical Resistivity
Engineering Applications of Electrical Geophysical Methods, George V. Keller, EFSE:Aug 74:128

Electric Analogs
Seepage Study Using Electrical Analog, Heinz Stefan and Johannes Meyer, HY2:Feb 70:411:7064

Electric Conductors
Automatic Voltage Drop Compensation for Tall Buildings, Frederick S. Rohatyn, TB:73:Ia-2-382

Electric Drives
Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900

Electric Measuring Instruments
A Description of Three Wave Measuring Instruments, E. H. Bowler, WAVES:Sept 74:562

Electric Networks
Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297

Electric Power
Research Needs in Civil Engineering Aspects of Power, Report of the Research Commission, Power Division, ASCE, E. Roy Tinney, Chmn., PO1:May 68:33:5935

Electric Power Costs
Electric Utility Problems in Meeting Urban Planning Requirements, Alfred R. Golze, UP2:Sept 73:193:10016

Electric Power Distribution
Automatic Voltage Drop Compensation for Tall Buildings, Frederick S. Rohatyn, TB:73:Ia-2-382
Improved Appearance of Switchyards and Substations, Edwin Rose and Dwight A. Covington, PO1:Mar 69:17:6455

Electric Power Generation
Cooling Tower Applications in Power Cycle Design, Arthur J. Fiehn, PO1:Mar 69:55:6458
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673
Logical Approaches to Power Supply and Environment, Riley D. Woodson, PO2:Oct 72:181:9257
Research Needs in Civil Engineering Aspects of Power, Report of the Research Commission, Power Division, ASCE, E. Roy Tinney, Chmn., PO1:May 68:33:5935
Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70

Electric Power Industry
Civil Engineering Education Requirements for an Electric Utility, Bruce R. Laverty and Jim O. Bass, CEE:Feb 74:1-400

Electric Power Plants
Blasting Mass-Concrete at Grand Coulee Dam, J. R. Granger, CE:Aug 71:28
Considerations in Design of Air Monitoring Network, Alroy F. Aschoff, PO1:Mar 69:119:6475
Internal Hydraulics of Thermal Discharge Diffusers, Svein Vigander, Rex A. Elder and Norman H. Brooks, HY2:Feb 70:509:7085
Modeling Spread of Heated Water over Lake, Heinz Stefan, PO3:June 70:469:7375
Multibarrier Containment for Nuclear Power Plants, Alexander C. Koehler, Delbert M. Leppke and Roy W. Corcoran, PO2:Oct 69:203:6829
Nuclear Power Plant Tornado Design Considerations, James A. Dunlap and Karl Wiedner, PO2:Mar 71:407:7949
St. Louis Power Plant to Burn City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Jan 71:56
Thermal-Pollution Threat Draws Nearer, Eugene E. Dallaire, CE:Oct 70:67

Electric Power Transmission
Bonneville Power Administration Electric Transmission and the Environment — Past, Present and Future, George S. Bingham, EPCE:Aug 74:579
Edward Hyatt (Orville) Underground Power Plant, Alfred R. Golze, PO2:Mar 71:419:7950

Reliability of Electric Power Supplies, Thorton A. Phillips, EPCE:Aug 74:7

Electric Utilities
Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings, Jay L. Smith and Dennis K. Ostrom, PO1:July 74:1:10652

Electrodialysis
Analytic and Process Classification of Effluents, T. Helfgott, J. V. Hunter and D. Rickert, SA3:June 70:779:7374

Electrokinetic Phenomena
Pore Pressures, Consolidation, and Electrokinetics, Melvin I. Esrig, PISST:71:263

Electrolysis
Anti-Fouling System By Electrolysis Of Sea Water, Toru Yoshii, Kenji Ueda and Tsutomu Horiguchi, CEO-II:70:1045

Electronic Equipment
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
Electronic Distance Measurement Revolution Well Underway, Eugene E. Dallaire, CE:Oct 74:66
Improving Urban Highway Transportation through Electronic Route Guidance, Rinaldo Favout, UTI:71:141
Introduction to Section II: Innovative Transportation Prototypes, Paul L. Sitton, UTI:71:79

Electronics
FHWA Traffic Research Program, Carl F. Izzard, TE2:May 71:333:8133
New Distance Measuring Instruments, Raymond W. Tomlinson, SU2:Sept 70:149:7521
New Zeiss Electro-Optical Instrumentation, Dieter F. Schellens, SU2:Sept 70:173:7526
Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379

Electroosmosis
Applications of Electrokinetics in Grouting, Melvin I. Esrig, SM5:Sept 68:1143:6124
Effective Stress Principle in Saturated Clay, H. E. Evans and Roland W. Lewis, SM2:Mar 70:671:7183
In-place Treatment of Foundation Soils, James K. Mitchell, SM1:Jan 70:73:7035
In-Place Treatment of Foundation Soils, James K. Mitchell, PISST:71:93
Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73:603:9912

Electroslag Welding
Grand Coulee 3rd Powerplant — Units 22, 23 and 24, James F. Meyers, EPCE:Aug 74:413

Electrostatic Precipitation
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196

Elevated Railroads
BART in Operation—Innovations in Rapid Transit, William A. Bugge, TE2:May 74:335:10522
Expressway Rapid Transit, George Krambles, TE4:Nov 72:1023:9388
Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41

Elevated Structures
BART in Operation—Innovations in Rapid Transit, William A. Bugge, TE2:May 74:335:10522
Skew and Elevated Support Effects on Curved Bridges, Donald W. Funkhouser and Conrad P. Heins, Jr., ST7:July 74:1379:10670

Elevation
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315

Elevators (Lifts)
Comments on Fire, M. Galbreath, J. H. Mc Guire and B. E. Allen, TB:73:Ib-8-721
External Transportation, State-of-Art Report 9, Roger M. Seitz, TB:73:Ia-1-211
Horizontal Versus Vertical Transportation, George R. Strakosch, TB:73:Ia-2-375
Le Chateau Champlain, T. A. Monti, TB:73:C-P-278
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389
Service Systems, Theme Report, Richard Baum, TB:73:Ia-2-305
United California Bank, Ormond Robert Berry, TB:73:C-P-251
Vertical Transportation, State-of-Art Report 4, Calvin L. Kort, TB:73:Ia-2-341

Elliptic Differential Equations
Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819

Embankments
Alaska Builds Highway Over Muskeg and Permafrost, John C. Becker, CE:July 72:75
Analyses and Records -- Dutch Hollow Dam, Kenneth H. Kastman, PES:72:I-285
Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817
Analysis of Observed Embankment Performance in Terms of Effective Stress, Koichi Akai, Masahiko Komatsu and Masanari Tominaga, PES:72:I-341
Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391:9740
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
Camanche Dike-2 Slurry Trench Seepage Cutoff, Walter F. Anton and David J. Dayton, PES:72:I-735
Case History -- Embankment Failure on Soft Varved Silt, Richard S. Haupt and James P. Olson, PES:72:I-1
Circular and Logarithmic Spiral Slip Surfaces, Eric Spencer, SM1:Jan 69:227:6361
Design of Embankments on Peat, Gerald P. Raymond, GT74:June 74:143
Design of the South Island for the Second Hampton Roads Crossing, David Rafaeli, PES:72:I-361
Effect of Tension on Stability of Embankments, Eric Spencer, SM5:Sept 68:1159:6127
Eight Years of Observations at El Infiernillo Dam, Raul J. Marsal and Luis Ramirez de Arellano, PES:72:I-703
Embankment Construction On Yielding Sea Bottom, Aris C. Stamatopoulos and Panaghiotis C. Kotzias, SM7:July 72:727:9066
Embankment Instrumentation Tunnel Performance, Charles H. Dowding, T. William Lambe and L. Anthony Wolfskill, TN: GT5:May 74:567:10510
Embankments on Soft Ground, Laurits Bjerrum, PES:73:II-1
Embankments on Soft Ground -- Reporter's Summary, William H. Perloff, PES:73:III-49
Evaluation of Pore Pressures Beneath and Embankment, David J. D'Appolonia, T. William Lambe and Harry G. Poulos, SM6:June 71:881:8213
Failure of a Test Embankment on Sensitive Clay, Oscar Dascal, J. P. Tournier, Francois A. Tavenas and Pierre La Rochelle, PES:72:I-129
The Failure of Laguna Dam, Raul J. Marsal and Wolfang Pohlenz, PES:72:I-489
Field Test of Debris Fill Over Soft Soil, Henry T. Taylor and Albert L. Buchignani, PES:72:I-395
Fly Ash as Structural Fill, Anthony M. DiGioia, Jr. and William L. Nuzzo, PO1:June 72:77:8980

Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
The Gloucester Test Fill, Michael Bozozuk and Gerald A. Leonards, PES:72:I-299
An Induced Failure at a Trial Embankment At King's Lynn, Norfolk, England, P. F. Wilkes, PES: 72:I-29
An Induced Failure at a Trial Embankment: Part II Finite Element Computations, C. P. Wroth and B. Simpson, PES:72:I-65
The Kars (Ontario) Embankment Foundation, Gerald P. Raymond, PES:72:I-319
KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41
Performance of Embankments with Sand Drains on Sensitive Clay, Charles C. Ladd, Joseph J. Rixner and Douglas G. Gifford, PES:72:I-211
Precompression Analysis for Highway Embankments, Raymond J. Krizek and Peter K. Krugman, GT74: June 74:111
A Preload of Silty Fine Sand, Warren L. Schroeder and Edward G. Worth, PES:72:I-379
Rational Model Describing Slope Erosion, Dale L. Rowlison and Glen L. Martin, IR1:Mar 71:39:7981
Reverse and Direct Reservoir Routing Method Sets Highway Grade, Constantine Voutyras, CE:Oct 69: 56
Settlement Analysis of Two Highway Embankments, Hon-Hsieh Su and Rogel W. Prysock, PES:72:I-465
Settlement of Embankment on Layer of Soil, Jean-Pierre Giroud and Andre Rabatel, TN: SM1:Jan 71: 287:7787
Settlements Development: Observed Versus Predicted, Abraham Ellstein, PES:72:I-1073
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273
Stability Analysis of Embankments, John Lowe, III, SM4:July 67:33:5305
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653: 9016
Study of Five Embankment Failures on Soft Soils, Georges Pilot, PES:72:I-81
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
Test Embankment on Sensitive Clay, Charles C. Ladd, PES:72:I-101
Tests on Cohesionless Materials for Rockfill Dams, Emanuele Fumagalli, SM1:Jan 69:313:6353
Treatment of High Embankment Dam Foundations, Fred C. Walker and R. W. Bock, SM10:Oct 72: 1099:9272

Embankment Subsidence

Settlement of Embankment on Layer of Soil, Jean-Pierre Giroud and Andre Rabatel, TN: SM1:Jan 71: 287:7787

Embedding

Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
Stiffness Coefficients for Embedded Footings, Gordon R. Johnson, Paul P. Christiano and Howard I. Epstein, EPCE:Aug 74:499

Emergency Closures

Model Study of Power Intake Gate Of Mossyrock Dam, Robert A. Robertson and James W. Ball, HY7:July 71:889:8229

Emission

Prediction of Power Plant Emission Impacts, Michael D. Williams and Eric G. Walther, EPCE:Aug 74: 601
Some Biological Impacts of Converting Powerplants from Oil to Coal, Paul F. Berg, EPCE:Aug 74:623

Empirical Equations

Effect of Period of Record on Flood Prediction, Peter Victorov, HY11:Nov 71:1853:8525

Employee Relations

Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61
Environmental Engineering Education -- An Employer's View, John E. Ball and John B. Malouf, CEE:Feb 74:1-426
Guideline: Employer—Engineer Relationship, Charles J. Stevens, Chmn., PP4:Oct 72:523:9279
Management the Lincoln Electric Way, CE:Jan 73:76
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
Proposed ASCE Professional Organization and Structure, CE:Dec 69:38
Public Dissent and Professional Responsibility, CE: Sept 73:98
Superior Pension Plan Helps Attract Employees, Jack J. Schoustra and Richard S. Summerhays, CE:Jan 73:58
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53

Employment

Dsc, Taner Umurhan, CE:Oct 72:82
The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74: 1-559
Alternate Approaches to the Education of Designers, John F. Oyler and Howard H. Hobson, CEE:Feb 74:1-390
Are More Women Needed in Civil Engineering, Norman J. Fulco and Eugene E. Dallaire, CE:May 73:54
ASCE at Midterm or Challenges of 1972, John E. Rinne, CE:July 73:87
Broad Scope of Navigation's Economic Impact, Minard I. Foster, WW1:Feb 69:23:6389
Civil Engineering Curricula -- An Evaluation, H. Gordon Larew and John P. Bradshaw, CEE:Feb 74: 1-406
Civil Engineering Education and the Bureau of Reclamation, Gilbert G. Stamm, CEE:Feb 74:1-347
Civil Engineering Education Requirements for an Electric Utility, Bruce R. Laverty and Jim O. Bass, CEE:Feb 74:1-400
Civil Engineering Today: A Profession in Crisis-Part I, David Carsen, CE:Jan 70:48
Civil Engineering Today: A Profession in Crisis-Part II, David Carsen, CE:Feb 70:51
Civil Engineers Need Construction Education, Walter L. Meyer and Robert I. Carr, CEE:Feb 74:1-545
Commentary, Clifford R. Scudder, Jr., CEWAU:74: 263
Commentary, Keith A. Foucher, CEWAU:74:281
Community Service and Urban Problems: Can Civil Engineers Make a Contribution?, Maynard Charles Nugent, CE:Jan 70:53
A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489
Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538
Development of a Professional Construction Manager, Rolland M. Wilkening, CEE:Feb 74:1-367
Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442
Education and the Job Market, Lucien Kraner, CEWAU:74:279
Education for Leadership, C. Maxwell Stanley, CEE: Feb 74:1-312
Education of Engineering Students to become Engineers, George F. Sowers, CEE:Feb 74:1-320
Effects of Environmental Concerns on Education, Paul W. Purdom, CEE:Feb 74:1-508
Employment Survey -- Environmental Technology, Robert H. Creamer, CEE:Feb 74:1-270
Engineering Education for Public Participation, John W.N. Fead, CEE:Feb 74:1-525
Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380
Engineering Education Versus Engineering Practice, Michael N. Goodkind, CEE:Feb 74:1-452

Engineering Manpower: Supply and Demand Relationships, Robert D. Kersten and John Paul Hartman, CEE:Feb 74:1-479
Engineering Societies' Program for Training Minority Manpower, Sol E. Cooper, PP1:July 69:61:6694
"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
Environmental Management Broadening the Base of Civil Engineering Education, William H. Matthews, CEE:Feb 74:1-518
Ethics of Negotiating with Prospective Employers, Harold G. Biedermann, PP1:Dec 67:27:5656
A Growing Need for Undergraduate Education in Precast Prestressed Concrete Design, Fromy Rosenberg, CEE:Feb 74:1-382
Guide for Public Agency Professional Development, Marble J. Hensley, PP1:Sept 70:55:7553
Guideline: Employer—Engineer Relationship, Charles J. Stevens, Chmn., PP4:Oct 72:523:9279
Guidelines for Employer-Engineer Relationships, CE: July 71:57
How to Entice Minority Youth into Engineering, Howard Jackson, CE:July 74:54
Humanities and Social Sciences in Engineering Education, 1974, Omer Allan Gianniny, Jr., CEE: Feb 74:1-530
Issues of Environmental Engineering Education, Wesley O. Pipes, CEE:Feb 74:1-496
Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080
Local Sections and Social Action: How It Stands, Charles Hemming, CE:Nov 70:33
The Making of a Professional Civil Engineer, Gerard Roberto, Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433
Minorities In Engineering - How Does Your Company Stack Up?, Montrust Q. Burrell, EI1:Jan 74:41:10271
Minority Employment—A Job for ASCE, Sol E. Cooper, EI3:July 74:191:10689
Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72: 431:9075
Minority Training Programs Lurch Ahead, Suzy Fisher, CE:Sept 71:68
NACE Paper: County Engineering Career Demands, David L. Weir, CEE:Feb 74:1-354
Needs of Engineering Education for the Future -- View of a Conuslting Engineer, William W. Moore, CEE:Feb 74:1-327
Neglected Responsibilities of Undergraduate Education, John P. Klus, CEE:Feb 74:1-566
A New Profile for Engineering -- Emergence of a Learned Profession, Cornelius Wandmacher, CEE: Feb 74:1-469
Observations on Civil Engineering Executive/ Management Needs as a Part of Civil Engineering Education, Walter G. Heintzleman, CEE:Feb 74:1-361
Patterns of Mobility of Working Poor, Arthur Saltzman and Alice E. Kidder, TE3:Aug 74:769: 10760
President's Annual Address, John E. Rinne, CE:July 73:87
Professional Aspects of Public Works Management, Myron D. Calkins, CEE:Feb 74:1-339
Professional Briefs: Immediate Past President Sam Baxter represented ASCE, CE:Mar 72:86
A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552
A Professor Talks About Civil Engineering Education, CE:Aug 72:65
Profile of ASCE Membership, George K. Wadlin, Jr., CE:Jan 72:39
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
Proposed ASCE Professional Organization and Structure, CE:Dec 69:38
Statement of Affirmative Action Principles, Benito A. Sinclair, EI3:July 74:183:10688
Superior Pension Plan Helps Attract Employees, Jack J. Schoustra and Richard S. Summerhays, CE:Jan 73:58
Ten Years After: Confessions of an Overeducated Engineer, Richard M. Males, CEE:Feb 74:1-417
Ut Prosimus et Ducamus, Dan H. Pletta, CEE:Feb 74:1-459
What Should Civil Engineering Education Accomplish?, Elmer K. Timby, CEE:Feb 74:1-302
What the General Contractor Looks for in a Recent Graduate, Luther Hill, Jr., CEE:Feb 74:1-374
A Word With The Executive Director About. . . The Quality of Personal Success, William H. Wisely, CE:June 71:37

Employment Opportunities
ASCE Minority Programs, Gerald L. Baker, CE:Aug 73:54
Minorities In Engineering - How Does Your Company Stack Up?, Montrust Q. Burrell, EI1:Jan 74:41:10271
Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351: 8888
Statement of Affirmative Action Principles, Benito A. Sinclair, EI3:July 74:183:10688

Encapsulating
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240

Endrin
Contamination of Oysters by Pesticides, Donald R. Rowe, Larry W. Canter and J. W. Mason, SA5:Oct 70:1221:7619

Energy
Application of New Technology to the Solution of Environmental Problems, Ralph E. Fadum, PWS: Nov 72:219
The Bicycle as It Relates to the Energy Crisis, Nina D. Dougherty, BP73:Dec 73:331
Boundary-Layer Development at Curved Conduit Entrances, Palepu V. Rao, HY1:Jan 68:195:5756
Civil Engineering Education Requirements for an Electric Utility, Bruce R. Laverty and Jim O. Bass, CEE:Feb 74:1-400
The Civil Engineer's Role in the Power Industry, Charles F. Beck, EPCE:Aug 74:1
Conservation of Energy in Buildings, Vance L. Sailor, CO3:Sept 74:295:10795
Conversion of Organic Waste to Fuel, John L. Cox, Warrack G. Willson and Edward J. Hoffman, EE3: June 74:717:10579
The Critical U.S. Energy Situation, John J. McKetta, PP2:Apr 73:171:9685
Designing Energy-Conserving Buildings, Eugene E. Dallaire, CE:Apr 74:54
Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71: 2023:8599
Energy: A 40 Watt Outlook, Virginia Fairweather, CE:Dec 74:45
Energy Concepts of Aerobic Microbial Metabolism, Carl E. Burkhead and Ross E. McKinney, SA2:Apr 69:253:6505
Energy Conservation, Noise, and Vibration Control in Construction of Floating Offshore Power Plants, James A. O'Kon, TN: CO2:June 74:195:10570
Energy Cost and Stair Design: A Preliminary Report, John A. Templer and Paul J. Corcoran, MTI:May 72:67
The Energy Crisis and the Bicyclist, James L. Konski, BP73:Dec 73:576
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Energy Loss at Pipe Junctions, Fred W. Blaisdell and Philip W. Manson, IR3:Sept 67:59:5411
Energy Losses under Wave Action, P. D. Treloar and A. Brebner, 12CEC:71:257
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50

Fate of Thermally Polluted Surface Water in Rivers, Cheng-Lung Chen, SA3:June 71:311:8197

Present Day Evaporation Measurement Techniques, G. Earl Harbeck, Jr. and J. Stuart Meyers, HY7: July 70:1381:7388

Reliability of Electric Power Supplies, Thorton A. Phillips, EPCE:Aug 74:7

Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823: 9095

Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527

Energy Balance

The Bicycle as It Relates to the Energy Crisis, Nina D. Dougherty, BP73:Dec 73:331

Bikeways - The Federal Role, Julian Rhinehart, BP73:Dec 73:13

Civil Engineering Education Requirements for an Electric Utility, Bruce R. Laverty and Jim O. Bass, CEE:Feb 74:1-400

Energy Conservation

Energy: A 40 Watt Outlook, Virginia Fairweather, CE:Dec 74:45

Energy Dissipation

Air Entrainment and Energy Dissipation in Breakers, Alfred Fuhrboter, 12CEC:71:391

Closed Conduit to Open Channel Stilling Basin, Gordon H. Flammer, Gaylord V. Skogerboe and Chi-Yuan Wei, IR1:Mar 70:1:7124

Dissipation of Wave Energy due to Opposing Current, Toshio Iwasaki and Michio Sato, CE13:72: I-605

Energy Losses under Wave Action, P. D. Treloar and A. Brebner, 12CEC:71:257

Hydraulic Jump Assisted by Cross-Jet, Teh-Yuh Kao, HY12:Dec 71:2037:8614

Hydraulic Performance Of Penstock Trifurcations, Palepu V. Rao, H. C. Misra and R. V. Juyal, PO: Mar 69:35:6456

Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, Teh-Yuh Kao and Daniel L Shoemaker, HYB:Aug 73:349

Probabilities of Breaking Wave Characteristics, J. Ian Collins, 12CEC:71:399

Strength Versus Energy Dissipation in Sandstone, Michael K. McCarter and John E. Willson, RM14: 73:223

Energy Dissipators

Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7: July 72:1127:9007

Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678

Energy Equation

Open-Channel Flow Equations Revisited, Ben Chie Yen, EM5:Oct 73:979:10073

Work-Energy Equation for the Streamline, Hunter Rouse, HY5:May 70:1179:7300

Energy Losses

Carpools - the Underutilized Mode, Lew Pratsch, CE:Jan 74:49

Conservation of Energy in Buildings, Vance L. Sailor, CO3:Sept 74:295:10795

Energy Loss Analysis for Open Channel Expansions, Gaylord V. Skogerboe, HY10:Oct 71:1719:8464

Quadratic Loss and Scattering of Long Waves, Chiang C. Mei, Philip L-F. Liu and Arthur T. Ippen, WW3:Aug 74:217:10754

Energy Methods

Asymptotic Stability Analysis of Viscoelastic Systems, Rong-Chung Shieh, EM2:Apr 71:193:8035

Automobile Energy Requirements, Eric Hirst, TE4: Nov 74:815:10909

Nonlinear Formulations of Beam-Column Effects, Frank Baron and Mahadeva S. Venkatesan, ST4: Apr 71:1305:8080

Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106

Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266

Energy Storage

Optimal Development of Multipurpose Hydro Projects, Phillip R. Hoffman, PO1:July 74:43:10655

Energy Transfer

Energy Transfer Mechanism for Finite Amplitude Waves, Konstantin Zagustin, CE13:72:I-523

Engine Blocks

Model for Flow Augmentation Analysis-An Overview, George R. Grantham, Edwin E. Pyatt, James P. Heaney and Buford J. Carter, Jr., SA5: Oct 70:1045:7578

Engineering

The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74: 1-559

Can Development and Ecology be Reconciled?, John E. Skinner, CE:Apr 71:67

Channel Rectification Engineering Survey Program, John M. Shields, SU1:May 71:61:8119

Considering Social Value in Engineering Projects, Charles G. Sudduth, PP1:Jan 72:43:8655

Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105: 9281

Educational TV Film Spots for Engineering, Kaye Finch, Frederick O. Leidel and James R. Villemonte, CEE:Feb 74:1-1015

Education of Engineering Students to become Engineers, George F. Sowers, CEE:Feb 74:1-320

Engineer/Builder's Approach to Continuing Education, Richard M. Collins, CEE:Feb 74:1-816

Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486

Engineering-Architecture Interprofessional Practice, William H. Wisely, CE:Apr 71:37

Engineering at the University of Illinois (Chicago Circle), Ernest F. Masur, CEE:Feb 74:1-127

Environmental Aspects of Airport System Planning, John F. Brown, TE4:Nov 70:543:7674

Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1: Jan 72:33:8657

A Game Plan for Interprofessional Collaboration in Engineering and Architecture, William H. Wisely, CE:Oct 71:41

Guidance and Motivational Programs, Stephen L. Tuttle, Bob Younger, Jack Pitts and John Moran, CEE:Feb 74:1-996

Industrial Archaeology - An Avocation for Engineers, Emory L. Kemp, PP4:Oct 73:481:10087

A New Profile for Engineering -- Emergence of a Learned Profession, Cornelius Wandmacher, CEE: Feb 74:1-469

Noise Control and Civil Engineering, Edward M. Krokosky and Clive L. Dym, CE:May 74:45

Opening Remarks, James R. Graham, SUSS:July 73:1

A Profile of the Future Construction System, Joseph C. Kellogg, CO1:Mar 71:147:7938

Project Planning, John M. Shields, SU1:July 72:61: 9041

Reinforced Masonry Engineering Handbook by J. E. Amrhein (Book Review), Albert J. Blaylock, CE: Dec 72:11

Reward-Risk Ratio, Marvin Gates and Amerigo Scarpa, CO4:Dec 74:521:10984

System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569

Systems Approach to Building, James R. Cagley, CE: Apr 73:59

Welcoming Remarks at the Tall Buildings Conference, Maurice Cosandey, President, IABSE, TB:73:C-29

Welcoming Remarks at the Tall Buildings Conference, Raymond Bisplinghoff, Deputy Director, NSF, TB:73:C-31

Engineering Costs

Computer Charges and Engineering Organizations, Daniel Roos, EC[illegible]59

Engineering Economy

Variational Principle in Fluid Dynamics, Pierre F. Lemieux, Tharakkal E. Unny and R. N. Dubey, EM6:Dec 70:1031:7731

Engineering Education

The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74:1-559
Dsc, Academic foreclosure, James Michalos, CE:July 72:74
Aesthetics -- Part of Civil Engineering, Frederick M. Law, PP2:Apr 72:275:8850
Air Pollution and Civil Engineers-Careers and Design Problem, Paul W. Purdom, CE:Feb 70:48
Alternate Approaches to the Education of Designers, John F. Oyler and Howard H. Hobson, CEE:Feb 74:1-390
Analysis of Transportation Planning Education, Lester A. Hoel, TE2:May 70:123:7255
ASCE and Graduate Students: Faculty Advisor's Opinion, Keith Charles Crandall, PP3:July 73:307:9882
ASCE at Midterm or Challenges of 1972, John E. Rinne, CE:July 73:87
ASCE Involvement in Social Action, Stephen L. Tuttle, EI3:July 74:201:10690
ASCE -- Its Role, Function and Activities on the Urban Campus, Joseph Di Sorbo, CEWAU:74:270
ASCE Minority Programs, Gerald L. Baker, CE:Aug 73:54
ASCE's New President Outlines a Suggested Course, Oscar S. Bray, CE:Dec 71:38
Bachelor of Civil Engineering Technology at the University of North Carolina at Charlotte, Richard R. Phelps, CEE:Feb 74:1-254
Bachelor of Technology: Six Years Experience, John D. Antrim, Milan E. Degyansky and William A. Welsh, CEE:Feb 74:1-231
Basic Contemporary Urban Problems, Felipe U. Derteano, UP2:Oct 70:133:7608
Berkeley Offers Professional Masters Degree, Howard D. Eberhart, CE:Nov 73:74
Breaking New Ground, Oscar S. Bray, PP1:Oct 71:1:8473
BS-CET Program at Western Kentucky University, Boyce D. Tate, CEE:Feb 74:1-244
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
Building a Professionally Qualified Faculty, King S. Luk and Eugene H. Kopp, EI2:Apr 74:105:10466
Can Continuing Education Teach Experience?, Arthur B. Gruver, CEE:Feb 74:1-825
Can Decision-Making Be Taught?, John B. Scalzi, CE:July 70:37
Can Professionalism Be Taught, Paul C. Hassler, PP1:Sept 70:33:7551
Career Guidance Programs for Minority Youth, Lawrence M. Moy and James E. Roembke, EI3:July 74:207:10691
CE Students Learn Through Socially Useful Projects, Fred Lamar, CE:Jan 71:60
C.E. Technology Minority Student Considerations, Philip L. Brach, CEE:Feb 74:1-296
City Planning Bibliography, George C. Bestor and Holway R. Jones, CPB:72, 518pp.
The Civil Engineer as a Sales Engineer, James M. Dockey, CE:Feb 71:78
Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72:645:9282
Civil Engineering and Public Affairs: New Direction in Undergraduate Education at Carnegie-Mellon University, Francis Clay McMichael, CEE:Feb 74:1-689
Civil Engineering: An Education for Professional Management, Boyd C. Paulson, Jr., CEE:Feb 74:1-580
Civil Engineering Curricula -- An Evaluation, H. Gordon Larew and John P. Bradshaw, CEE:Feb 74:1-406
Civil Engineering Education - A Mechanism for Interaction with Urban Practice (Discussion), Albert A. Grant, CEE:Feb 74:2-325
Civil Engineering Education and the Bureau of Reclamation, Gilbert G. Stamm, CEE:Feb 74:1-347
Civil Engineering Education for the 1970's, Edward G. Nawy, CE:Aug 71:70
Civil Engineering Education - Goals and Policy: The Practicing Engineer's Viewpoint, Thomas C. Kavanagh, CEE:Feb 74:2-262
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
Civil Engineering Education in Transition: A Case Study, Ralph R. Rumer, Jr. and George C. Lee, CEE:Feb 74:1-24
Civil Engineering Education Requirements for an Electric Utility, Bruce R. Laverty and Jim O. Bass, CEE:Feb 74:1-400
Civil Engineering Faculties and the Space Program, James K. Mitchell, ESE:Apr 70:151
Civil Engineering Faculty Profile (Discussion), James H. Schaub and D. A. Eckler, CEE:Feb 74:2-298
Civil Engineering: Flexible or Rigid Program, Howard I. Epstein, CEE:Feb 74:1-16
Civil Engineering Graduate Education in Evolution, John D. Haltiwanger, William J. Hall and Nathan M. Newmark, CEE:Feb 74:1-149
Civil Engineering History: An Appraisal, Neal FitzSimons, PP3:July 73:327:9875
Civil Engineering's Role in Construction Education, Henry W. Parker, CEE:Feb 74:1-573
Civil Engineering Today: A Profession in Crisis-Part I, David Carsen, CE:Jan 70:48
Civil Engineering Today: A Profession in Crisis-Part II, David Carsen, CE:Feb 70:51
The Civil Engineer in Urban Affairs and Planning, Sigurd Grava, CEE:Feb 74:1-173
The Civil Engineer of the Future - A Renaissance Man, David A. Novick and Sheldon Schumacher, PP1:Jan 73:9:9489
Civil Engineers Need Construction Education, Walter L. Meyer and Robert I. Carr, CEE:Feb 74:1-545
The Civil Engineers Role in Environmental Development, Abel Wolman, CE:Oct 70:42
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
Commentary, Clifford R. Scudder, Jr., CEWAU:74:263
Commentary, Paul A. Larkin, CEWAU:74:268
Committee on Curricula and Accreditation Paper on Proposed New ASCE Policy on Engineering Education (Discussion), Garrett H. Evans, CEE:Feb 74:2-288
Committee Rap Sessions (Panel Discussions), CEE:Feb 74:2-254
A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489
Conducting Civil Engineering Continuing Education, Peter C. Madsen and King S. Luk, CEE:Feb 74:1-900
Construction as an Option within Civil Engineering, George E. Mason and Russel C. Jones, CEE:Feb 74:1-620
A Construction Co-op Educational Program, Keith F. Faherty and William E. Kissner, CEE:Feb 74:1-637
Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538
Construction Education at North Carolina State, George H. Blessis, CEE:Feb 74:1-613
Construction Education in Civil Engineering, Herbert W. Busching and J. Pat Cecil, CEE:Feb 74:1-607
Construction Engineering and Management (Discussion), Ben C. Gerwick, Jr., CEE:Feb 74:2-310
A Consulting Firm in Civil Engineering Education: A History of Four Years of Participation, Eben Vey and David A. Novick, CEE:Feb 74:1-927

The Continuing Challenge of Engineering Education, Arthur G. Hansen, PP3:July 72:351:9037

Continuing Education and Broadening the Program (Discussion), William A. Conwell, CEE:Feb 74:2-338

Continuing Education for Civil Engineers - The UCLA-ASCE Professional Certificates, Alfred C. Ingersoll, CEE:Feb 74:1-841

Continuing Education for the Contractor Owner, Emmett H. Karrer, CEE:Feb 74:1-858

Continuing Education for the Engineering Educator, Edward J. Rhomberg and David A. Novick, CEE:Feb 74:1-955

Continuing Education in the Strategic Air Command, William A. Orth, Colonel, CEE:Feb 74:1-874

Continuing the Enchancement of Mankind's Welfare: A Civil Engineer's Responsibility for Professional Development and Maintenance of Competence, C. Allen Wortley, CEE:Feb 74:1-808

Corps of Engineers Promotes Continuing Education, Melford E. Monsees, CE:Jan 72:63

Costs and Benefits Reating to Paper Mill Waste Treatment, Arthur Lesser, Jr. and Michael A. Tirabassi, EI1:Jan 74:61:10279

A Crtical Review of ASCE's Planning and Policy Process, Thomas C. Kavanagh, EI4:Oct 74:343:10890

Currents in Civil Engineering Education, Russel C. Jones, CEE:Feb 74:2-90

Current Status of Continuing Education, C. Allen Wortley, CEE:Feb 74:2-66

Development of a Curriculum in Construction Engineering, Thomas C. Jellinger, CEE:Feb 74:1-654

Development of a Planning Program: A Case Study, William K. Johnson, Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71

Development of a Professional Construction Manager, Rolland M. Wilkening, CEE:Feb 74:1-367

Doctoral Education and the Practicing Professional, Warren J. Baker and Edward J. Rhomberg, CEE:Feb 74:1-764

Educating Engineers for Professional and Ethical Responsibility (Discussion), William R. Gibbs, CEE:Feb 74:2-305

Educating Engineers for Professional and Ethical Responsibility (Discussion), Dan H. Pletta, CEE:Feb 74:2-305

Educating Public Works Engineers and Administrators, Donald C. Stone, CEE:Feb 74:1-679

Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442

Educational Needs for Engineering Practice and Recommended Follow-Up Program (Discussion), George J. Kral, CEE:Feb 74:2-345

Educational TV Film Spots for Engineering, Kaye Finch, Frederick O. Leidel and James R. Villemonte, CEE:Feb 74:1-1015

Education and the Job Market, Lucien Kraner, CEWAU:74:279

Education and Training Viewed by a Younger Member, James F. Stahl, CWFE:Mar 71:261

Education for Construction Engineering and Management, John A. Havers and Donn E. Hancher, CEE:Feb 74:1-662

Education for Leadership, C. Maxwell Stanley, CEE:Feb 74:1-312

Education for Public Works Engineering and Proposed ASCE Policy on Engineering Education (Discussion), Donald C. Stone, CEE:Feb 74:2-294

The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267

Education of Engineering Students to become Engineers, George F. Sowers, CEE:Feb 74:1-320

Education Profile for Consulting Engineering: A Case Study (Discussion), Melvin I. Esrig, CEE:Feb 74:2-314

Education Today for Environmental Challenges Tomorrow, Russell S. Stearns, PP1:Oct 70:67:7554

Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751

Effects of Environmental Concerns on Education, Paul W. Purdom, CEE:Feb 74:1-508

The Elder Latrobe and the European Link, Neal FitzSimons, CE:Jan 70:82

Emerging Trends in Construction Education - Summary Statement and Overview, Paul W. Scheele, CEE:Feb 74:2-104

Employment Survey -- Environmental Technology, Robert H. Creamer, CEE:Feb 74:1-270

Engineer/Builder's Approach to Continuing Education, Richard M. Collins, CEE:Feb 74:1-816

Engineering at the University of Illinois (Chicago Circle), Ernest F. Masur, CEE:Feb 74:1-127

Engineering Career Counseling and Education, Ernest C. James and Orville Abbot, CE:Jan 70:71

Engineering Education and a Professional Ethic, Charles R. Schrader, PP1:Oct 71:147:8460

Engineering Education for Public Participation, John W.N. Fead, CEE:Feb 74:1-525

Engineering Education -- Introduction, M. D. Morris, CEWAU:74:257

Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380

Engineering Education Versus Engineering Practice, Michael N. Goodkind, CEE:Feb 74:1-452

Engineering For People, Richard R. Harbert, PP3:July 72:387:9058

Engineering Licensure Innovations, C. Allen Wortley, EI3:July 74:213:10642

Engineering Registration-License for What?, John W. Frazier, PP1:Sept 70:103:7562

The Engineering Societies Library, Gail Bays, CE:Aug 74:88

Engineering Students Learn Social Awareness at UMR, Fred Lamar, CE:May 74:54

The Engineering Technician: An Underutilized Resource, Ronald P. Shumate, CE:Feb 72:64

Engineering Technology at Florida International (Bachelor's Programs for a Major Urban Region), Robert W. Ellis, Jr., CEE:Feb 74:1-264

"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082

The Engineer's Role, Frederick J. Clarke, PP2:Apr 72:163:8825

Engineers Study Highway Safety, A. C. Estep, CE:Mar 70:68

Environmental Engineering Education -- An Employer's View, John E. Ball and John B. Malouf, CEE:Feb 74:1-426

Environmental Management Broadening the Base of Civil Engineering Education, William H. Matthews, CEE:Feb 74:1-518

Environmental Protection for Nuclear Applications, Dade W. Moeller and Abraham S. Goldin, SA3:June 69:373:6589

The Ethics of Teacher Evaluation, Chester Lee Allen, PP1:Oct 71:153:8465

Evaluation of a University-Industry Interaction Program, Subhash C. Anand and Marvin E. Criswell, CEE:Feb 74:1-971

An Evaluation of the Bachelor of Technology Program, C. Kenneth Myers, CEE:Feb 74:1-239

Experience in Teaching Engineering Judgment by Case Histories in Foundation Engineering, Ralph B. Peck and Herbert O. Ireland, CEE:Feb 74:1-187

Feedback from Engineering Practitioners - Summary and Review, Joseph S. Ward, CEE:Feb 74:2-79

Financial Consideration of Practicing Engineers in the Classroom (Discussion), Evan H. Curtis, CEE:Feb 74:2-333

A Flexible Civil Engineering Curriculum, James P. Olson and Joseph C. Oppenlander, CEE:Feb 74:1-48

Fluid Mechanics Teaching and Research: A View from a Dean's Office, Hunter Rouse, HY5:May 72:775:8899

Formal Education in Construction Management, Abraham Warszawski, CO2:Sept 72:251:9164

Future Goals and Directions - The Educator's Viewpoint, William M. Sangster, CEE:Feb 74:2-280

The Future of Private Engineering Education, Wils L. Cooley and Clive L. Dym, EI2:Apr 74:97:10458
Graduate Civil Engineering Programs, Thomas E. Stelson, CEE:Feb 74:2-36
Graduate Management Curricula for Experienced Engineers, William D. Brinckloe, Alfred C. Ingersoll and Ricardo Gonzales, Jr., CE:Sept 74:99
A Growing Need for Undergraduate Education in Precast Prestressed Concrete Design, Fromy Rosenberg, CEE:Feb 74:1-382
Guidance and Motivational Programs, Stephen L. Tuttle, Bob Younger, Jack Pitts and John Moran, CEE:Feb 74:1-996
How A Construction Industry Organization Provides Educational Opportunities, Maynard Charles Nugent, CEE:Feb 74:1-865
How Industry Has Accepted the Oregon State University C.E.C. Construction Program Graduates, Harold D. Pritchett and William T. Peckham, CEE:Feb 74:1-670
How Land Surveying Is Being Modernized, Robert T. Howe, SU1:July 72:17:9049
How to Entice Minority Youth into Engineering, Howard Jackson, CE:July 74:54
The Human Ethic, Charles R. Schrader, PP1:July 69:73:6700
Humanities and Social Sciences in Engineering Education, 1974, Omer Allan Gianniny, Jr., CEE:Feb 74:1-530
Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913
Improved Monitoring of Civil Engineering Education - The Need and a Method (Discussion), Richard G. Coulter, CEE:Feb 74:2-329
Indoor Territoriality: An Anthropological Perspective, Donald A. Kennedy, ABS:71:37
Industry Continuing Engineering Education, Vincent J. Vitagliano, CEE:Feb 74:1-868
An Innovative A.S.C.E Student Chapter Structure, Vincent P. Drnevich, CEE:Feb 74:1-988
Instruction in Urban Planning for Civil Engineers, Peter S. Parsonson, UP1:Mar 70:23:7127
The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
Integrating Construction with Engineering, Ben C. Gerwick, Jr., CEE:Feb 74:1-598
Interchange, Ethics, Accreditation, Needs of Practice (Panel Discussions), CEE:Feb 74:2-243
An Interdisciplinary Graduate Program, Robert Burnham, Volker Hartkopf, Edward M. Krokosky and Irving J. Oppenheim, CEE:Feb 74:1-179
Interface Specialists: A New Engineering Profession?, Granville H. Sewell, CEWAU:74:154
Introducing Undergraduates to Environmental Quality, Alonzo W. Lawrence, CEE:Feb 74:1-83
Issues of Environmental Engineering Education, Wesley O. Pipes, CEE:Feb 74:1-496
Junior-Senior Bachelor of Technology Programs, Joseph H. Moore, CEE:Feb 74:1-221
Land Surveying and Civil Engineering -- Professionally Related, But Different, Kenneth S. Curtis and John G. McEntyre, CEE:Feb 74:1-134
The Last Word, Arthur J. Fox, Jr., CEE:Feb 74:2-285
Learning Games: The Transportation Planning Game, Martin C. Nizlek and Frederick J. Wegmann, TE1:Feb 74:41:10339
Making Civil Engineering Relevant I, Arthur J. Fox, Jr., CEE:Feb 74:1-1
Making Civil Engineering Relevant II - Conference Keynote, Arthur J. Fox, Jr., CEE:Feb 74:2-3
Making Engineering Curricula More Relevant, Mario G. Salvadori, CE:June 74:70
The Making of a "Pro"—A Faculty Viewpoint, Dan H. Pletta, EI3:July 74:217:10645
The Making of a Professional Civil Engineer, Gerard Roberto, Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433
The Making of a Professional Engineer - A Teamwork Approach (Discussion), William A. Hunt and Leland J. Walker, CEE:Feb 74:2-322
Management Degree Program for Employed Public Works Directors, A. Morgan Johnson, CEE:Feb 74:1-728
Management Education for Civil Engineers, Stephens W. Nunnally and William H. Wisely, CEE:Feb 74:1-696
Management in the Construction Industry --A New M.I.T. Program, William A. Litle, CEE:Feb 74:1-589
Marketing Principles Applied to Engineering Education, George Pincus, CEE:Feb 74:1-1006
Master's Degree in Civil Engineering / Facilities: A Program Offered at the Air Force Institute of Technology School of Engineering for Air Force Civil Engineers, Stewart W. Johnson, CEE:Feb 74:1-157
The ME(Civil) Program at Cornell University - Part 1 - Program Development, Dwight A. Sangrey and George Winter, CEE:Feb 74:1-779
The ME(Civil) Program at Cornell University - Part II - Program Implementation, Richard N. White, Vaughn C. Behn, Gerard F. Fox and Arthur Adams, CEE:Feb 74:1-787
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
Mid-Career Administrative Training for Engineers, William D. Brinckloe, EI4:Oct 74:325:10866
The Military Draft: Educational and Occupational Deferments for Engineers, Betty M. Vetter, CE:May 69:67
Minority Employment—A Job for ASCE, Sol E. Cooper, EI3:July 74:191:10689
Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075
Modern Civil-Environmental Engineering Curriculum, Herman A.J. Kuhn and William D. Berg, CEE:Feb 74:1-104
Multi-Discipline Case Study Approach to Education in Project Planning, William S. Gaither and Dennis R. Neuzil, CE:Dec 70:35
NACE Paper: County Engineering Career Demands, David L. Weir, CEE:Feb 74:1-354
National Environmental Policy Act of 1969 and Engineering Curriculum, Joseph Nemec, Jr., CE:Mar 73:64
The Nature of Continuing Education, Alfred C. Ingersoll, CWFE:Mar 71:229
The Nature of Continuing Education, Alfred C. Ingersoll, PP1:Jan 72:113:8660
The Nature of Education in Environmental Engineering at Universities, Rolf Eliassen, CWFE:Mar 71:221
Needs of Engineering Education for the Future -- View of a Conuslting Engineer, William W. Moore, CEE:Feb 74:1-327
Neglected Responsibilities of Undergraduate Education, John P. Klus, CEE:Feb 74:1-566
A New Civil Engineering Curriculum at Purdue, Gerald A. Leonards, Martin J. Gutzwiller and Robert H. Lee, CEE:Feb 74:1-39
New Interdisciplinary Program in Construction Management at WPI, A. Fattah Chalabi, CEE:Feb 74:1-645
A New Profile for Engineering -- Emergence of a Learned Profession, Cornelius Wandmacher, CEE:Feb 74:1-469
Observations on Civil Engineering Executive/Management Needs as a Part of Civil Engineering Education, Walter G. Heintzleman, CEE:Feb 74:1-361
Option Packages for Undergraduate Technical Depth, Russel C. Jones, CEE:Feb 74:1-32
Partners as First-Class Engineering Technicians, James C. Farley and Noel L. Caldwell, CEE:Feb 74:1-286
PennState Civil Engineering Construction Education, Jack H. Willenbrock, CEE:Feb 74:1-628
Position Paper on Civil Engineering Education, by the ASCE Committee on Engineering Education, Merit P. White, Chmn., PP1:July 69:29:6671
Practical Continuing Education for the Individual Engineer, Russel C. Jones, CE:Feb 70:66

Practioner-Oriented Post-Baccalaureate Education, Ralph E. Fadum, CEE:Feb 74:1-794
Practitioners Teach Students Art of Highway Engineering, David A. Novick, Howard S. Newman and Eben Vey, CE:Jan 72:45
President's Annual Address, John E. Rinne, CE:July 73:87
Priorities: Engineering education; ASCE; Pollution Control, Thomas M. Niles, CE:July 70:60
Process Control Computers For Educational Exercises, Charles A. Moore, TN: SM5:May 72: 517:8865
Professional Aspects of Public Works Management, Myron D. Calkins, CEE:Feb 74:1-339
Professional Education: The Need for Creativity, Charles R. Schrader, PP1:Jan 72:85:8654
The "Professional" Faculty, Waldron Murrill McLellon and Robert D. Kersten, CEE:Feb 74:1-800
Professional Input to Engineering Education, William H. Wisely, CE:Aug 71:27
A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552
Professional Practice for the Young Engineer, Charles S. Hedges, PP1:Sept 70:89:7558
The Professional School - A Sleeping Giant, Grover L. Rogers and James H. Schaub, CEE:Feb 74:1-752
Professional Schools and Programs, M. R. Lohmann, CEE:Feb 74:2-125
Professional Schools for Civil Engineering Education, James H. Schaub, CEE:Feb 74:1-735
A Professor Talks About Civil Engineering Education, CE:Aug 72:65
Promising and Expanding Programs (Panel Discussions), CEE:Feb 74:2-225
Promising Trends in Continuing Education - Programs Available, Alfred C. Ingersoll, CEE:Feb 74:2-149
Promising Trends in Education in Public Works Engineering, Herbert A. Goetsch, CEE:Feb 74:2-114
Promising Trends in Interchange between Education and Practice, David A. Novick, CEE:Feb 74:2-180
A Proposed Doctor of Engineering Program, Fred J. Benson and Charles H. Samson, Jr., CEE:Feb 74:1-772
Proposed New ASCE Policy on Engineering Education, by Ad Hoc Subcommittee for Revision of Policy C-37, William W. Moore, Chmn., John L. Rumpf, Leo W. Ruth, James H. Schaub and Ralph H. Wallace, CEE:Feb 74:1-905
Proposed New ASCE Policy on Engineering Education - Role of Technology Graduates (Discussion), Angelo L. Gutierrez, CEE:Feb 74:2-296
Public Works Engineering and Administration- The Pittsburgh Experience, George M. Tomsho and Joel I. Abrams, CEE:Feb 74:1-723
Purdue Students Tackle Social Projects, David Brenchley, Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83
Recommendations Concerning Proposed New ASCE Policy on Engineering Education (Discussion), John M. Hayes and Donn E. Hancher, CEE:Feb 74:2-291
Recommendations for Environmental Engineering Education, Wesley O. Pipes, EE2:Apr 74:243:10459
Recycling Civil Engineering Education, William K. Johnson, CE:Oct 71:101
Responsibilities of Practicing Engineers and Technicians and Subprofessionals (Discussion), Lester A. Heer, CEE:Feb 74:2-342
Rock Mechanics Education -- A Panel Discussion, H. Douglas Dahl, K. E. Gray and Leonard Obert, RM14:73:747
Role of ASCE Student Chapters in Engineering Education, T. A. Austin and J. J. Valenta, CEE:Feb 74:1-980
Role of a Small College in Education of Engineers, Jon A. Cole and Edward F. Cross, CEE:Feb 74:1-55
The Role of Consulting in Faculty Development, Furman W. Barton, Fred C. McCormick and Henry L. Kinnier, CEE:Feb 74:1-962
A Sabbatical Leave with a Consulting Firm, Peter George Hoadley, CEE:Feb 74:1-950
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73: 81:9832
A Short Course for Inexperienced Construction Engineers, Robert J. Smith, CEE:Feb 74:1-890
Should Renewal of PE License be Automatic?, C. Allen Wortley, CE:Jan 74:69
Sims Named to CE Chair at Rice, CE:Apr 74:82
The Socio-Engineering Program at S.U.N.Y.-Buffalo, George C. Lee, CEE:Feb 74:1-703
Socio-Technical Programs in Civil Engineering at O.S.U., Michael B. Godfrey and Elbert E. Whitlatch, Jr., CEE:Feb 74:1-713
Some Experience with Offering Professional Education in Urban Transportation, Lester A. Hoel, CEE:Feb 74:1-850
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
Straddling the Picket Fence, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, CEE:Feb 74:1-6
Student Assistance for Local Governments, Lansford C. Bell, CEE:Feb 74:1-143
Student Development, Guidance and Minorities in Civil Engineering, Alvin Newman, CEE:Feb 74:2-191
Students Tackle Pollution Problems, Darrell J. Turner, CE:Sept 70:51
A Success Story - Kansas City Engineering Evening Graduate Program (Discussion), Melford E. Monsees, CEE:Feb 74:2-320
The Survey Engineer - A Rare Species, Arthur J. McNair, SU1:Apr 70:37:7197
Surveyor 1984, B. Austin Barry, EI3:July 74:235: 10658
Systems Approach and the Civil Engineer, Kenneth W. Heathington and R. Brian Bonton, PP1:Oct 71: 65:8457
Systems View of Professional Engineering, Albert S. Keevil, PP1:July 69:55:6689
Teaching Design with Practicing Engineers (Five Years of Experience), John J. Cassidy, CEE:Feb 74: 1-937
Technician and Technologist Education in 1974, John L. Rumpf, CEE:Feb 74:1-210
Technician and Technology Programs, John L. Rumpf, CEE:Feb 74:2-49
Technician Manpower Needs in Florida, Richard D. Ray, CEE:Feb 74:1-279
Ten Years After: Confessions of an Overeducated Engineer, Richard M. Males, CEE:Feb 74:1-417
Three Yards and a Cloud of Dust: An Empirical Approach to Career Development for the Smaller Engineering Firm in Transition, Robert Caird Lewis, CEE:Feb 74:1-834
To Practice or Perish, Dan H. Pletta and George A. Gray, PP1:Oct 71:131:8474
Transportation Education and Research: A Multidisciplinary Approach, C. Michael Walton and William Ronald Hudson, CEE:Feb 74:1-200
Trends in Engineering Education (Discussion), Richard M. Collins, CEE:Feb 74:2-336
Trends in Environmental Engineering Education, Robert M. Sykes, CEE:Feb 74:2-138
Undergraduate Civil Engineering Programs, David A. VanHorn, CEE:Feb 74:2-25
University of Wisconsin Offers Professional Development Degree, John P. Klus and C. Allen Wortley, CE:Jan 72:49
University Teaching by Practicing Engineers, King S. Luk, CEE:Feb 74:1-945
The Urban and Environmental Engineering Program at the University of North Carolina at Charlotte, Jack B. Evett, CEE:Feb 74:1-90
Urban Engineering in the University, William T. Hafferty, PP1:Sept 70:15:7547
Urban Systems Planning: Implications for Civil Engineering Education, Ata M. Khan, CEE:Feb 74: 1-164

Ut Prosimus et Ducamus, Dan H. Pletta, CEE:Feb 74:1-459
Water Resources Education in Civil Engineering, Vincent T. Ricca and Robert C. Stiefel, CEE:Feb 74:1-96
The Water Studies Program at Stanford University, Perry L. McCarty, CEE:Feb 74:1-193
Welcoming Remarks at Tall Buildings Conference, Albert C. Zettlemoyer, Vice President and Provost, Lehigh University, TB:73:C-25
What Graduate Students Want From ASCE, Harold J. Singer, PP3:July 73:313:9881
What Should Civil Engineering Education Accomplish?, Elmer K. Timby, CEE:Feb 74:1-302
What's New in Water and Sewer Pipe?, CE:Oct 70:46
What the General Contractor Looks for in a Recent Graduate, Luther Hill, Jr., CEE:Feb 74:1-374
Women in Civil Engineering Education, Judith S. Liebman, CEE:Feb 74:1-993

Engineering Evaluation

The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492

Engineering Geology

Engineering Applications of Electrical Geophysical Methods, George V. Keller, EFSE:Aug 74:128
Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731
Geotechnical Considerations Of Lateral Stresses, David J. Henkel, LS:70:1
Slope Stability in Tropically Weathered Diorite, Andrew H. Merritt, RM13:72:625
Tunnel Support-Where Does Geology Come In?, John F. Abel, Jr., CE:Feb 70:70

Engineering Mechanics

Abnormality Detection in Simulated Arterial Systems, Marlyn E. Clark, Giovanni F. Ayala and Samuel L. Hawkes, EM5:Oct 69:1189:6854
Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641:8982
Acoustic Approximations in Fluid-Shell Interactions, Bedros Bedrosian and Frank L. DiMaggio, EM3:June 72:731:8998
Adaptive Control of Design Codes, Gerald Schorn and Niels C. Lind, EM1:Feb 74:1:10332
Aerodynamic Forces on a Triangular Cylinder, C. F.M. Twigge-Molecey and W. Douglas Baines, EM4:Aug 73:803:9904
Aerodynamic Instability of Suspension Bridges, Ali Sabzevari and Robert H. Scanlan, EM2:Apr 68:489:5889
Aeroelastic Instability of Prisms in Turbulent Flow, Milos Novak and Alan G. Davenport, EM1:Feb 70:17:7076
Airfoil and Bridge Deck Flutter Derivatives, Robert H. Scanlan and John J. Tomko, EM6:Dec 71:1717:8609
Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101
Analysis of Accelerograms and Structural Response, S. K. Guha, S. P. Agarwal, V. P. Agarwal, P. D. Marwadi and S. C. Marwad , TN: EM2:Apr 71:589:8017
Analysis of Dynamic Response of Highway Bridgeu, Anestis S. Veletsos and Tseng Huang, EM5:Oct 70:593:7591
Analysis of Elastic-Plastic Shells of Revolution, Mahmoud Khojasteh-Bakht and Egor P. Popov, EM3:June 70:327:7354
An Analysis of Elliptic-Paraboloid Shell, S. P. Banerjee, ST10:Oct 68:2213:6151
Analysis of Laminated Curved Beams, Antone F. Sayegh and Stanley B. Dong, EM4:Aug 70:471:7495
Analysis of Plate Bending by Triangular Element, William Y.J. Shieh, Seng-Lip Lee and Richard A. Parmelee, EM5:Oct 68:1089:6176
Analysis of Rectangular Plates by Stiffness Method, Assad Abdul-Baki and Mudar Jamaluddin, EM3:June 74:547:10613
Analysis of Simply Supported Thick, Layered Plates, Yau-kai Cheung and Subrata Chakrabarti, TN: EM3:June 71:1039:8160
Analysis of Skew Plates with Shear Deformation Using Natural Coordinates, Yair Tene and Izhak Sheinman, EM2:Apr 74:235:10487
Analysis of Structures by Quadratic Programming, Mehdi S. Zarghamee, EM5:Oct 71:1495:8431
Analysis of the Triaxial Test for Granular Soils, Paul R. Paslay and Jay B. Weidler, EM3:June 69:587:6611
Analysis of Tunnel Liner-Packing Systems, William P. Dawkins, EM3:June 69:679:6622
Analysis of Vibration of Hollow-Cone Valves, Chung-su Wang, EM6:Dec 73:1147:10215
An Analytical Description of the Behavior of Granular Media, Jay B. Weidler and Paul R. Paslay, EM2:Apr 69:379:6491
Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814
Analytically Determined Bed-form Shape, Albert G. Mercer, TN: EM1:Feb 71:175:7858
Analytical Model for Prediction of Ice-Structure Interaction, Hudson Matlock, William P. Dawkins and John J. Panak, EM4:Aug 71:1083:8282
Analytical Treatment of Two-Phase Infiltration, Richard L. Brustkern and Hubert J. Morel-Seytoux, HY12:Dec 70:2535:7743
Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73:1283:10207
Application of Dual Series to Rectangular Plates, Kraiwood Kiattikomol, Leon M. Keer and John Dundurs, EM2:Apr 74:433:10486
An Approach to Time-Varying Spectral Analysis, Shih-Chi Liu, EM1:Feb 72:243:8733
Approximate Yield Surface Equations, Glenn A. Morris and Steven J. Fenves, EM4:Aug 69:937:6741
Artificial Intelligence Continuum Mechanics, Andrew K.C. Wong and George Bugliarello, EM6:Dec 70:1239:7779
Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950
Assured Upper Bounds via Complementary Energy, Carl H. Popelar, EM4:Aug 74:623:10704
Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5:Oct 72:1115:9247
Asymptotic Stability Analysis of Viscoelastic Systems, Rong-Chung Shieh, EM2:Apr 71:193:8035
Axisymmetric Finite Deflection of Circular Plates, Gordon B. J. Mah, EM5:Oct 69:1125:6832
Axisymmetric Stresses and Displacements in Thick-Walled Elastic Torus, David J. McGill and Ira H. Rapp, III, TN: EM3:June 73:629:9765
Bandwidth Minimization of Stiffness Matrices, James G. Crose, TN: EM1:Feb 71:163:7858
Base Moment for a Class of Linear Systems, Jacobo Bielak, EM5:Oct 69:1053:6810
Basie Response Fuctions for Elastic Foundations, Anestis S. Veletsos and Branislav Verbic, EM2:Apr 74:189:10483
Beam Columns on Elastic Foundations, Sridhara D.N. Murthy and Archibald N. Sherbourne, TN: EM3:June 71:1033:8160
Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6:Dec 72:1353:9441
Bearing Capacity of Concrete Blocks, Wai F. Chen and Sergio Couarrubias, EM5:Oct 71:1413:8421
Bearing Strength of Concrete Blocks, Wai F. Chen, TN: EM6:Dec 73:1314:10187
Behavior of Concrete Under Biaxial Stresses, Helmut B. Kupfer and Kurt H. Gerstle, EM4:Aug 73:853:9917
Behavior of Square Tanks on Elastic Foundations, John Duncan Davies and John Edward Long, EM3:June 68:753:5985
Bending of Clamped Orthotropic Sandwich Plates, G. Michael Folie, EM3:June 70:243:7340
Bending of Spectoral Plates with Clamped Edges, John W. Weber, TN: EM2:Apr 73:440:9641

Bifurcation Analyses for Shallow Arches, Clive L. Dym, EM2:Apr 73:287:9649

Blast Loaded Buried Arches, Jimmy P. Balsara, EM1:Feb 70:1:7058

Bounds for Impulsively Loaded Plastic Structures, John B. Martin and Alan R.S. Ronter, EM1:Feb 72:107:8745

Bounds on Large Dynamic Deformations of Structures, Tomasz Wierzbicki, EM3:June 70:267:7344

Boussinesq Problems for Nonhomogeneous Solid, Mumtaz K. Kassir, EM2:Apr 72:457:8847

Buckling and Post-Buckling of Spherical Caps, Nuri Akkas and Nelson R. Bauld, Jr., EM3:June 71:727:8189

Buckling and Vibrations of Polygonal and Rhombic Plates, Sanford B. Roberts, EM2:Apr 71:305:8030

Buckling Frequencies of Long Vertical Pipes, Tseng Huang and D. W. Dareing, EM1:Feb 69:167:6400

Buckling of Arbitrary Open Cylindrical Shells, Jack W. Vetter and Donald E. Boyd, EM1:Feb 72:177:8726

Buckling of Axially Loaded Cylindrical Panels, Pan San Hsueh and Alexander Chajes, EM3:June 71:919:8210

Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812

Buckling of Clamped Rectangular Plates, Lotfi El-Bayoumy, EM4:Aug 71:1277:8336

Buckling of Columns with Random Initial Displacements, Michael C. Bernard and John L. Bogdanoff, EM3:June 71:755:8194

Buckling of Continuous Circular Plates, A. S. J. Swamidas and Vincent X. Kunukkasseril, EM4:Aug 73:835:9900

Buckling of Cylindrical Shells by Wind Pressure, Yung-shih Wang and David P. Billington, EM5:Oct 74:1005:10874

Buckling of Finite Beams in Elastic Continuum, Madhira Radha Madhav and Edward H. Davis, EM6:Dec 74:1227:11033

Buckling of Inelastic Tapered Pin-Ended Columns, Franklin J. Appl and James O. Smith, EM2:Apr 68:549:5897

Buckling of Multilayer Plates by Finite Elements, Harry R. Lundgren and Ahmed E. Salama, EM2:Apr 71:477:8051

Buckling of Naturally Curved and Twisted Beams, Irving U. Ojalvo and Malcolm Newman, EM5:Oct 68:1067:6156

Buckling of Open Cylindrical Shells with Imperfections, Peter Turula and Kuang-Han Chu, EM6:Dec 70:1125:7733

Buckling of Open Cylindrical Shells Under Lateral Load, Kuang-Han Chu and Peter Turula, EM6:Dec 70:1143:7736

Buckling of Reinforced Concrete Shells, P. Harvey Griggs, EM3:June 71:687:8173

Buckling of Rhombic Plates, Patricio A. Laura and Joseph Grosson, TN: EM1:Feb 71:145:7858

Buckling of Rings, Steven C. Batterman and Alan I. Soler, TN: EM6:Dec 70:1291:7715

Buckling of Shells: An Old Idea with a New Twist, John Roorda, EM3:June 72:531:8951

Buckling of Shells by Finite Element Method, G. Venkateswara Rao, I. S. Raju and S. K. Radhamohan, TN: EM5:Oct 74:1092:10856

Buckling of Simply Supported Folded Plates, Michel L. Mikhail and Sidney A. Guralnick, EM5:Oct 71:1363:8414

Buckling of Simply Supported Skew Plates, Somayajulu Durvasula, EM3:June 71:967:8218

Buckling of Slanted Columns, Chin-Hao Chang, EM4:Aug 74:737:10738

Buckling of Soil-Surrounded Tubes, James A. Cheney, EM4:Aug 71:1121:8297

Buckling of Uniformly Compressed Circular Arches, Cenap Oran and Ronald S. Reagan, EM4:Aug 69:879:6732

Cable Net: Continuous System Analysis, Hugh Tottenham and Paul G. Williams, EM3:June 70:277:7347

Cantilever Cylindrical Shells Under Assumed Wind Pressures, S. Gopalacharyulu and D. J. Johns, EM5:Oct 73:943:10085

Capillarity and Seepage from an Array of Channels, John C. Bruch, Jr., EM6:Dec 69:1403:6972

Characteristics of Turbulent Boundary Shear Stress, Paul H. Blinco and Daryl B Simons, EM2:Apr 74:203:10477

Circular Plate with Supported Edge-Beam, Rene Amon and John Dundurs, EM3:June 68:731:5971

Circular Sandwich Plates Under Eccentric Load, Jao-Shiun Kao, EM1:Feb 69:235:6413

Closing Materials Research Structural Design Cycle, Christos C. Chamis, EM5:Oct 69:1255:6864

Collapse Load Analysis of Frames Considering Axial Forces, M. Z. Cohn and Tariq Rafay, EM4:Aug 74:773:10757

Collapse of Clamped Variable Thickness Circular Plates, Helmut M. Haydl and Archibald N. Sherbourne, TN: EM6:Dec 73:1309:10187

Collocation and Eigenfunctions in Plane Elastostatics, Harry D. Knostman and Isadore K. Silverman, EM3:June 68:797:5998

Column Instability Under Weight and Follower Loads, David J. McGill, EM3:June 71:629:8196

Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238

Complementary Energy Method for Buckling of Plates, Cenap Oran, EM2:Apr 68:621:5911

Complementary Energy Method for Buckling of Arches, Cenap Oran, EM2:Apr 68:639:5912

Compression Fatigue of Fiber Reinforced Concrete, Melvin R. Ramey and Patrick J. McCabe, EM2:Apr 74:139:10469

Computer Analysis of Large Linear Frames, William D. Whetstone, ST11:Nov 69:2401:6897

Computer Mapped Hologram Images in Stress Analysis, John L. Ford and Arthur P. Boresi, EM2:Apr 74:173:10476

Concentrated Loads Applied to Shallow Shells, Rudolf Elling, EM2:Apr 73:319:9651

Consolidation of Porous Media with Non-Darcy Flow, James D. Schmidt and Russell A. Westmann, EM6:Dec 73:1201:10211

Constitutive Relations for Inelastic Granular Medium, Jay B. Weidler and Paul R. Paslay, EM4:Aug 70:395:7475

Contact Between Plates and Sagged Supports, John Dundurs, Kraiwood Kiattikomol and Leon M. Keer, EM2:Apr 74:445:10485

Contact Stresses in Twisted Wire Cables, James W. Phillips and George A. Costello, EM2:Apr 73:331:9676

Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73:1023:10054

Cooling Towers Supported on Columns, Salman H. Abu-Sitta, ST12:Dec 70:2575:7753

Cosserat Surface and Sandwich Shell Equilibrium, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1075:9240

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3:June 72:595:8968

Creep and Shrinkage Law for Concrete at Variable Humidity, Zdenek P. Bazant and Spencer T. Wu, EM6:Dec 74:1183:10995

Critical Shear Loading of Curved Panels of Corrugated Sheets, George Abdel-Sayed, EM6:Dec 70:895:7725

Cross-Velocity Behavior in Parallel Channel Flow, James F. Wilson, EM4:Aug 69:921:6736

Curvature and the Solution of Eccentrically Loaded Columns, Wai F. Chen and Sakda Santathadaporn, EM1:Feb 69:21:6382

Cylindrical Shell Subject to Longitudinal Line Load, Amir K. Naghdi, EM5:Oct 70:653:7617

Cylindrical Shell Under Sudden PressurizatioE, Edward G. Lovell, EM6:Dec 70:1229:7776

Data Reduction from Nonlinear Response Curves, Milos Novak, EM4:Aug 71:1187:8300

Deep Beam on Statically Indeterminate Supports, Prabhakara Bhatt, EM4:Aug 73:793:9902

Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3: June 72:581:8970
Deformation in Multiple Tier Cylindrical Shells, James H. Williams, Jr., TN: EM10:Oct 73:1114: 10041
Delayed Yielding of Three-Phase Epoxy Composites, Leslie J. Cohen and Ori Ishai, EM6:Dec 70:867: 7732
Design Using Symbolic Topological Equations, Dennis R. Lagerquist and Steven J. Fenves, EM3: June 69:695:6624
Determination of Signs in Moire Method, Fu-Pen Chiang, EM6:Dec 69:1379:6963
Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652
Directional Analysis in Model Design, Fernando Vasco Costa, EM2:Apr 71:519:8053
Dirichlet Series Creep Function for Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM2:Apr 73:367:9645
Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813
Displacement Bounds for Blast Loaded Structures, Walter J. Morales, EM4:Aug 72:965:9147
Displacements and Stresses in Nonhomogeneous Solid, Manoon F. Chuaprasert and Mumtaz K. Kassir, EM5:Oct 74:861:10868
Distribution Of Response To Simulated Earthquakes, Paul H. Wirsching and James T.P. Yao, TN: EM4: Aug 70:515:7444
Dual Failure Criterion for Plain Concrete, Han-Chin Wu, EM6:Dec 74:1167:10996
Duality Between Limit Analysis and Limit Design, George I.N. Rozvany, TN: EM6:Dec 71:1763:8559
Duality in Finite Element Methods, Ziad M. Elias, EM4:Aug 68:931:6074
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
Dynamic Analysis of Inelastic Space Frames, Robert K. Wen and Fereydoon Farhoomand, EM5:Oct 70: 667:7621
Dynamic Analysis of Plane Coupled Shear Walls, Wai K. Tso and Ho-Bong Chan, EM1:Feb 71:33: 7899
Dynamic Buckling of Cylindrical Shell, Charles C. Cromer and Robert E. Ball, EM3:June 71:657:8187
Dynamic Buckling of Shallow Arches, Robert E. Fulton and Furman W. Barton, EM3:June 71:865: 8214
Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679: 8993
Dynamic Interaction of a Shear Wall with the Soil, Juan Enrique Luco, EM2:Apr 69:333:6497
Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595
Dynamic Response of Circular Footings, Juan Enrique Luco and Russell A. Westmann, EM5:Oct 71:1381:8416
Dynamic Response of Imbedded Cylindrical Shell, Raymond Parnes, EM2:Apr 71:421:8073
Dynamic Response of Initially-Stressed Membrane Shells, John W. Leonard, EM5:Oct 69:1231:6859
Dynamic Response of Nonlinear Media at Large Strains, Joseph H. Heifitz and Carl J. Costantino, EM6:Dec 72:1511:9451
Dynamics of Correlated Random Pulse Trains, Shih-Chi Liu, EM4:Aug 70:455:7490
Dynamics of Impulsively Loaded Circular Plates, Robert J. Green, EM2:Apr 71:413:8079
Dynamics of Tier Buildings, William Weaver, Jr., Mark F. Nelson and Thomas A. Manning, EM6: Dec 68:1455:6293
Dynamic Stability Matrix for Planar Beams, James W. Gorzynski and William A. Thornton, TN: EM4: Aug 74:823:10692
Dynamic Stability of Circular Cylindrical Sandwich Panels, Conor D. Johnson and Nelson R. Bauld, Jr., EM6:Dec 71:1643:8598
Dynamic Stability of Plates by Finite Elements, Johnny M. Hutt and Ahmed E. Salam, EM3:June 71:879:8211
Dynamic Stability of Thin-Walled Column, Carl H. Popelar, EM3:June 72:657:8978
Dynamic Stability of Tube Conveying Fluid, Shoei-sheng Chen, EM5:Oct 71:1469:8420
Earthquake Behavior of Reservoir-Dam Systems, Anil K. Chopra, EM6:Dec 68:1475:6297
Earthquake Finite Element Analysis of Structure-Foundation Systems, Ashok K. Vaish and Anil K. Chopra, EM6:Dec 74:1101:10990
Earthquake Hydrodynamic Forces on Arch Dams, Parambakatoor R. Perumalswami and Lakshmidhar Kar, EM5:Oct 73:965:10060
Earthquake Interaction by Fast Fourier Transform, Shih-Chi Liu and Lawrence W. Fagel, EM4:Aug 71:1223:8324
Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149
Earthquake Response of Concrete Gravity Dams, Anil K. Chopra, EM4:Aug 70:443:7485
Earthquake Response Statistics of Nonlinear Structures, Shih-Chi Liu, EM2:Apr 69:397:6507
Earthquake Time Histories and Response Spectra, Robert H. Scanlan and Klaus Sachs, EM4:Aug 74: 635:10703
Effect of Blockage on Steady Force Coefficients, Amruthur S. Ramamurthy and C. P. Ng, EM4:Aug 73:755:9905
Effect of Shear and Load Behavior on Ring Stability, C. V. Smith, Jr. and G. J. Simitses, EM3:June 69: 559:6607
Effect of Skew Penetration on Stress Concentration, Fernand Ellyin and Archibald N. Sherbourne, EM6:Dec 68:1317:6265
Effect of Turbulence on Galloping Instability, Milos Novak and Hiroshi Tanaka, EM1:Feb 74:27:10338
Effect of Weight on Large Deflections of Arches, J. Stewart Kennedy and Anand S. Aggarwal, EM3: June 71:637:8165
Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914
Efficient Frame Design for Stability Constraints, Karl M. Romstad and Karl H. Runge, TN: EM6:Dec 74: 1286:107979
Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206
Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782
Eigenvalue Analysis of Structures by Folding Force, Itio Hirai and Torazo Yoshimura, EM6:Dec 70: 1081:7728
Eigenvalue Uncertainty in Stressed Structures, Gary C. Hart, EM3:June 73:481:9780
Elastic Analysis of Zoned Orthotropic Continua, Geoffrey R. Tomlin and Roy Butterfield, EM3:June 74:511:10604
Elastic Analysis With Indeterminate Boundary Conditions, Antone F. Sayegh, EM1:Feb 74:49: 10357
Elastic Buckling of Beam Flange Plates, Kuang-Han Chu and Albert J. Gouwens, TN: EM4:Aug 71: 1329:8273
Elastic Buckling of Two Component Columns, Yu-wen Hsu, EM3:June 69:611:6612
Elastic Foundation Representation of Continuum, David Q. Fletcher and Leonard R. Herrmann, EM1:Feb 71:95:7932
Elastic Free-Field Motion Due to Nuclear Blast, Leif E. Fugelso, Robert K. Waddick and Glen L. Heidhardt, EM6:Dec 68:1337:6266
Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6: Dec 72:1547:9435
Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72: 47:8717

Elastic Plastic Bending of Circular Plates, Narendra K. Srivastava and Archibald N. Sherbourne, EM1: Feb 71:13:7902

Elastic Waves in Half-Space with Thin Barrier, Jacob Aboudi, EM1:Feb 73:69:9536

Elements of Random Vector Analysis, Robert M. Stark and Devendra K. Shukla, TN: EM2:Apr 73: 434:9641

Element Stiffness Matrix Generator, Richard H. Gunderson and Ayhan Cetiner, ST1:Jan 71:363: 7842

Elimination Of Secularity In Regular Perturbation, W. F. Ames and H. M. Khalil, TN: EM2:Apr 72: 487:8815

End Effects in Truncated Semi-Infinite Wedge, Robert Wm. Little and Tommie R. Thompson, EM5:Oct 72:1239:9251

Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898

Equivalent Linearization for Random Vibration, Loren D. Lutes, EM3:June 70:227:7333

Equivalent Viscous Damping for Yielding Structures, Paul C. Jennings, EM1:Feb 68:103:5793

Exact and Invariant Second-Moment Code Format, Abraham M. Hasofer and Niels C. Lind, EM1:Feb 74:111:10376

Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695: 8986

Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948

Experiments with Elastic Folded Plate Models, Stuart E. Swartz and Vernon H. Rosenbraugh, EM3:June 72:711:8992

Extensibility of Concrete and Theorems of Limit Analysis, Wai F. Chen, EM3:June 70:341:7369

Extension of Incremental Collapse Theorems, Atle Gjelsvik, TN: EM5:Oct 71:1603:8412

Face Wrinkling of Sandwich Plates and Cylinders, Yau-Cheung Wong and Peter George Hoadley, EM4:Aug 71:1071:8281

Fatigue Life Of Multilane Highway Bridges, Chi C. Tung, TN: EM5:Oct 70:801:7573

Filtered Poisson Process for Random Vibration Problems, Ronald L. Racicot and Fred Moses, EM1:Feb 72:159:8725

Finite Deflections of Circular Membranes, John Peddieson, Jr., TN: EM3:June 73:634:9765

Finite Dynamic Model for Infinite Media, John Lysmer and Roger L. Kuhlemeyer, EM4:Aug 69: 859:6719

Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72: 1529:9429

Finite-Element Analogue Of Navier-Stokes Equation, J. Tinsley Oden, TN: EM4:Aug 70:529:7444

Finite Element Analysis of Inflatable Shells, Chin-Tsang Li and John W. Leonard, EM3:June 73:495: 9802

Finite-Element Analysis of Seepage in Elastic Media, Ranbir S. Sandhu and Edward L. Wilson, EM3: June 69:641:6615

Finite Element Analysis Of Skew Sandwich Plates, Gerard R. Monforton and Mofreh G. Michail, TN: EM3:June 72:763:8931

Finite Element Analysis of Thick Shell of Revolution, T. J. Chung and Martin A. Bandy, TN: EM4:Aug 71:1315:8273

Finite Element Bending Analysis of Reissner Plates, Charles W. Pryor, Jr., Richard M. Barker and Daniel Frederick, EM6:Dec 70:967:7760

Finite Element Large Deflection Analysis of Plates, David W. Murray and Edward L. Wilson, EM1:Feb 69:143:6398

Finite Element Method for Elastic Plastic Plates, Ted B. Belytschko and Milan Velebit, EM1:Feb 72:227: 8724

Finite Element Plate Bending Equilibrium Analysis, Edoardo Anderheggen, EM4:Aug 69:841:6715

Finite Elements and Dynamic Viscoelasticity, David W. Malone and Jerome J. Connor, EM4:Aug 71: 1145:8293

Finite Element Solutions To Differential Equations, John W. Leonard and T. Taz Bramlete, TN: EM6: Dec 70:1277:7715

Finite Strip Method Analysis of Elastic Slabs, Yau-Kai Cheung, EM6:Dec 68:1365:6267

First Passage of Nonstationary Random Processes, Ross B. Corotis, Erik H. Vanmarcke and C. Allin Cornell, EM2:Apr 72:401:8816

Flexural Vibrations of Laminated Plate, Jan D. Achenbach and Tony R. Zerbe, EM3:June 71:619: 8181

Flexural Vibrations of Rectangular and Other Polygonal Plates, Yau-Kai Cheung and M. S. Cheung, EM2:Apr 71:391:8038

Flexural Wrinkling in Foam-Filled Sandwich Panels, Ken P. Chong and John A. Hartsock, EM1:Feb 74: 95:10370

Flexure of Circular Plate by Concentrated Force, T. M. Lee, EM3:June 68:841:6006

Flexure Of Thick Rectangular Viscoelastic Plates, S. Srinivas and A. K. Rao, TN: EM3:June 72:763: 8931

Flow Around Cylinder Between Parallel Walls, Stevens T.K. Chan and Bruce E. Larock, TN: EM5: Oct 72:1317:9228

Flux Development Region in Submerged Jets, W. Hall C. Maxwell, EM6:Dec 70:1061:7756

Folded Plate Structures by Finite Strip Method, Yau-kai Cheung, ST12:Dec 69:2963:6985

Forced Vibration of Class of Nonlinear Dissipative Beams, Sami F. Masri, EM4:Aug 73:669:9959

Formulas for Convective Motion of Fluids, Gee Tsang, TN: EM1:Feb 71:155:7858

Formulation of Mathematical Watershed-Flow Model, Cheng-lung Chen and Ven Te Chow, EM3: June 71:809:8199

Fracture Mechanism in Concrete: How Much do We Know?, Sandor Popovics, EM3:June 69:531: 6604

Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806

Free Transverse Vibration of Flat Slabs, Paul P. Lynn and Nahit Kumbasar, EM1:Feb 69:255:6425

Free Vibration Characteristics of Shell Roofs, Anand S. Arya and Shashi K. Thakkar, EM1:Feb 71:109: 7929

Free Vibration of Arches Flexible in Shear, Walter J. Austin and Anestis S. Veletsos, EM4:Aug 73:735: 9913

Free Vibration of Hyperbolic Cooling Towers, Mahmoud G. Hashish and Salman H. Abu-Sitta, EM2:Apr 71:253:8037

Free Vibration of Shells of Revolution Using FEM, Subir K. Sen and Phillip L. Gould, EM2:Apr 74: 283:10488

Free Vibration of Stochastic Beam-Column, Masaru Hoshiya and Haresh C. Shah, EM4:Aug 71:1239: 8331

Free Vibrations of Hyperboloidal Shells of Revolution, Robert L. Carter, Arthur R. Robinson and William C. Schnobrich, EM5:Oct 69:1033:6808

Frequency Analysis of Tapered Orthotropic Plates, Jayaraman Ramachandran, EM1:Feb 72:1:8696

Frequency Analysis Of Thin-Walled Shear Walls, Arthur C. Heidebrecht and Ravinora K. Raina, EM2:Apr 71:239:8028

Fundamental Frequencies of Axially Moving Beams, Chien-Yung Wei and John Peddieson, Jr., TN: EM4:Aug 71:1343:8273

Fundamental Frequency of Shear Flexible Buildings, Michael J. O'Rourke, TN: EM5:Oct 74:1080:10856

Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692

Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828

General Solution of Inelastic Beam-Column Problem, Wai F. Chen, EM4:Aug 70:421:7482

Geometrically Nonlinear Analysis by Stiffness Method, James A. Stricklin, Walter E. Haisler and Walter A. Von Riesemann, ST9:Sept 71:2299:8392

Geometrically Nonlinear Finite-Element Analysis, Carlos A. Brebbia and Jerome J. Connor, EM2:Apr 69:463:6516

GFRP Rod and Rope for Structural Guy Applications, Nixon Halsey, EM4:Aug 74:673:10715
Gravity and Surface-Load Stresses in Spheres, August J. Durelli, Vincent J. Parks and Luis Ferrer, EM4:Aug 70:407:7481
Gravity Effect on Single-Degree Inelastic System, Chang-Kuei Sun, Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565
Grid Framework Method for Thick Plates in Flexure, Alan L. Yettram and Vincent McKinnon, TN: EM5:Oct 74:1073:10856
Grid Turbulence in Initally Turbulent Water Flow, M. H. Abdul Khader and K. Elango, EM6:Dec 74: 1149:11003
Griffith Fracture Criterion and Concrete, Surendra P. Shah and Frederick J. McGarry, EM6:Dec 71: 1663:8597
Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72: 447:8836
Higher Mode Buckling of Bimetallic Beam, David Burgreen and David Regal, EM4:Aug 71:1045:8305
High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519
High-Speed Train Simulation Using Hydrodynamics, Robert A. Helfinstine and Charles Dalton, EM2: Apr 72:357:8804
High-Strength End Fittings for FRP Rod and Rope, Richard A. Mitchell, Ruth M. Woolley and Nixon Halsey, EM4:Aug 74:687:10716
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Hydrodynamic Pressures in Stratified Reservoir, Gunaratnam Balachandran, Tharakkal E. Unny and David S. Weaver, TN: EM4:Aug 73:912:9898
Hyperboloids of Revolution Supported on Columns, Phillip L. Gould and Seng-Lip Lee, EM.5:Oct 69: 1083:6820
Imbedding Technique For Weak-Weak Approximations Of Linear And Nonlinear Operations, J. Tinsley Oden, TN: EM5:Oct 72: 1327:9228
Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, EM3:June 74:599:10620
Impact of Spheres on Ice, Yin-Chao Yen, Fuat Odar and Lynwood R. Bracy, EM5:Oct 70:641:7607
Improved Framework Method for Plates in Extension, Alan L. Yettram and Vincent McKinnon, TN: EM5:Oct 74:1067:10856
Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563
Inadequacies of Piston Theory in Fluid-Shell Interactions, Jerome M. Klosner, EM2:Apr 70:143: 7237
Incremental Response of 3-D Cable Networks, John W. Leonard, TN: EM3:June 73:621:9765
Indicial Aerodynamic Functions for Bridge Decks, Robert H. Scanlan, Jean-Guy Beliveau and Kathleen S. Budlong, EM4:Aug 74:657:10709
Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478
Inelastic Buckling of Axisymmetric Shells, James C. Hayes and Lawrence H.N. Lee, EM6:Dec 70:1107: 7765
Inelastic Buckling of Rings with Residual Stresses, Subhash C. Anand and Alvin R. Griffith, EM5:Oct 73:927:10063
Inelastic Buckling of Spherical Shells, Leo J. Galletta and Nicholas F. Morris, EM4:Aug 74:795:10761
Inelastic Finite Deformation of Planar Frames, Raouf A. Ridha and Lawrence H. N. Lee, EM3:June 71: 773:8198
Inelastic Flexural-Torsional Buckling, Alois J. Hartmann, EM4:Aug 71:1103:8294
Inelastic Lateral Buckling of Restrained Beams, Hiroshi Yoshida and Yoshihiro Imoto, EM2:Apr 73:343:9666
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Inelastic Response of Frames to Dynamic Loads, Donald G. Toridis and Khalilollah Khozeimeh, EM3:June 71:847:8205
Inelastic Stability of Beams under Biaxial Bending, Chesada Kasemset, Fumio Nishino and Seng-Lip Lee, EM5:Oct 74:965:10881
Inelastic Structural Response to 2D Ground Motion, David A. Pecknold, EM5:Oct 74:949:10846
Inflatable Shells: Nonsymmetric In-Service Loads, John W. Leonard, EM5:Oct 68:1231:6190
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan S. Sandler, EM6:Dec 73:1181:10210
Influence of Secondary Flow on Drag Force, Charles Dalton and Frank D. Masch, EM5:Oct 68:1249: 6193
Initial Buckling of Channels in Compression, William H. Wittrick and Frederic W. Williams, EM3:June 71:711:8177
Interaction of Ocean Waves with Floating Plate, Yi-Kwei Wen, EM2:Apr 74:375:10492
Interaction Stresses in Composite Systems, Mohammad A. Iqbal and Edward M. Krokosky, EM6:Dec 70:825:7738
Internal Hydraulic Jump In Co-Current Stratified Flow, Norio Hayakawa, TN: EM5:Oct 70:797:7573
Interpretation of Finite Element Procedure As Stress Error Minimization Procedure, Leonard R. Herrmann, TN: EM5:Oct 72:1330:9228
Intersecting Titanium Spheres for Deep Submersibles, George F. Leon, EM3:June 71:981:8219
Invariant Multicouple Theory of Shells, Gerald A. Wempner, EM6:Dec 72:1397:9444
Inverse Solution to Three-Dimensional Flows, Roland W. Jeppson, EM4:Aug 72:789:9110
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819
Irregular Shaped Plates with Singularities, David H. Geiger, EM5:Oct 71:1533:8458
Kelvin's Solution of Torsion Problem, Egor P. Popov, EM6:Dec 70:1005:7734
Lagrangian Formulation of Sandwich Shell Theory, Peter G. Glockner and David. J. Malcolm, EM3: June 73:445:9775
Lagrangian Formulation of Statics of Shells, J. P. Shrivastava and Peter G. Glockner, EM5:Oct 70: 547:7584
Laminar Flow Between Porous Rotating Disks, Abdel F. Elkouh, EM4:Aug 68:919:6069
Large Deflection of Axisymmetric Shell with Creep Strain, Sehng-Rong Lin, Tung-Hua Lin and Bernard Mazelsky, EM1:Feb 74:79:10368
Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271
Large Deflection of Shallow Paraboloid Shells, Neng-Ming Wang, Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929
Large Deflections of Arbitrarily Loaded Plated, Mandanapalli K. Prabhakara and Chun-Yuan Chia, TN: EM6:Dec 74:1282:10979
Large Deflections of Viscoelastic Rings, Michael Schoenberg, EM1:Feb 69:223:6410
Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247
Large Eigenvalue Problems in Dynamic Analysis, Klaus-Jurgen Bathe and Edward L. Wilson, EM6: Dec 72:1471:9433
Lateral Stability of Nonuniform Cantilevers, Campbell Massey and Peter J. McGuire, EM3:June 71:673:8172
Layered Beam Analysis, George W. Swift and Robert A. Heller, EM2:Apr 74:267:10484
Least-Weight Frameworks for Loads Across Span, Richard E. McConnel, EM5:Oct 74:885:10872
Life Expectancy of Highway Bridges to Vehicle Loads, Chi C. Tung, EM6:Dec 69:1417:6976
Lift-Oscillator Model of Vortex-Induced Vibration, Ronald T. Hartlen and Iain G. Currie, EM5:Oct 70: 577:7606

Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
Limit Analysis of Plates Under Combined Loads, Kenneth W. Neale and Niels C. Lind, EM5:Oct 70:711:7610
Limit Analysis Of Plates Under Concentrated Load, Philip V. McLaughlin, Jr., TN: EM4:Aug 70:509:7444
Limit Pressures of Rigidly Clamped Circular Cylindrical Shells, Hwa-Shan Ho, EM4:Aug 74:757:10759
Linearized Non-Stokesian Drag in Turbulent Flow, Barclay G. Jones, Raymond J. Ostensen and Charles C. Meek, TN: EM1:Feb 73:233:9528
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72:519:8961
Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
Load Fluctuations in Turbulent Flow, Barry J Vickery, EM1:Feb 68:31:5782
Logarithmic Profiles and Design Wind Speeds, Emil Simiu, EM5:Oct 73:1073:10100
Lower Bound Optimal Design of Concrete Structures, George I.N. Rozvany and M. Z. Cohn, EM6:Dec 70:1013:7778
Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011:10064
Lumped Parameter Beams Based on Impedance Methods, Vernon H. Neubert, Hong T. Hahn and Hae Lee, EM1:Feb 70:69:7099
Macro Approach to Discrete Field Analysis, Donald L. Dean and Hota V.S. GangaRao, EM4:Aug 70:377:7463
Material Model for Granular Soils, Frank L. DiMaggio and Ivan S. Sandler, EM3:June 71:935:8212
Matrix Method for Linear Response of Structures, Gordon B.J. Mah, EM5:Oct 69:1101:6831
Maximum Dynamic Response and Proof Testing, Jann-Nan Yang and Ewald Heer, TN: EM4:Aug 71:1307:8273
Maximum Strength Elastic Structural Design, J. E. Taylor, EM3:June 69:653:6617
Maximum Structural Response to Seismic Excitations, Masanobu Shinozuka, EM5:Oct 70:729:7620
Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094
Membrane Solutions for Shells with Edge Constraint, Charles R. Steele, EM3:June 74:497:10605
Minimal Design of Sandwich Axisymmetric Plates II, George J. Megarefs, EM1:Feb 68:177:5799
Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3:June 72:561:8958
Modal Damping for Soil-Structure Interaction, Nien-Chien Tsai, EM2:Apr 74:323:10490
Modal Interference in Vibration Tests, Brent J. Hoerner and Paul C. Jennings, EM4:Aug 69:827:6714
Model for Nonlinear Dynamics of Offshore Towers, Edward Terence Foster, Jr., EM1:Feb 70:41:7093
A Model for Turbulent Transfer in the Wall Region, Lindon C. Thomas and Liang-Tseng Fan, TN: EM1:Feb 71:169:7858
Model-free Design of Aseismic Structures, Rudolf F. Drenick, EM4:Aug 70:483:7496
Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1:Feb 73:201:9576
Moire-Rosette Method For Strain Analysis, Fu-Pen Chiang, TN: EM6:Dec 70:1285:7715
A More Exact Theory for Twisted Wire Cables, George A. Costello and James W. Phillips, TN: EM5:Oct 74:1096:10856
Motion of Two-Dimensional Starting Plume, Gee Tsang and Ian R. Wood, EM6:Dec 68:1547:6321
Motion-Reducing Device Under Seimic Excitation, Paul H. Wirsching and James T.P. Yao, TN: EM1:Feb 72:285:8687
New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956
Noncircular Cylinder Vibration by Multilocal Method, Ahmed K. Noor, EM2:Apr 73:389:9677
Nonconservative Stability by Finite Element, C. D. Mote, Jr., EM3:June 71:645:8204
Nonconvex Structural Optimization Problems, George I.N. Rozvany, TN: EM1:Feb 73:243:9528
Nondeterministic Analysis of Offshore Structures, Anil K. Malhotra and Joseph Penzien, EM6:Dec 70:985:7777
Nonisothermal Kinematic Hardening Law in Plasticity, Tse Yung Chang, TN: EM2:Apr 73:423:9641
Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746
Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428
Nonlinear Analysis of Pin-Jointed Space Trusses, Marcelo Epstein and Yair Tene, ST9:Sept 71:2189:8357
Nonlinear Bending of Elastic Plates of Variable Profile, Sridhara D.N. Murthy and Archibald N. Sherbourne, EM2:Apr 74:251:10478
Nonlinear Buckling Analysis of Sandwich Arches, Parviz Sharifi and Egor P. Popov, EM5:Oct 71:1397:8417
Nonlinear Dynamics of Cables with Low Initial Tension, John W. Leonard, EM2:Apr 72:293:8805
Nonlinear Dynamics of Curved Cable Elements, John W. Leonard, TN: EM3:June 73:616:9765
Nonlinear Earthquake Behavior of Tall Buildings, Ray W. Clough and Kalmar L. Benuska, EM3:June 67:129:5292
Nonlinear Sandwich Shell and Cosserat Surface Theory, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1183:9244
Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
Nonstationary Response of Structural Systems, Robert E. Holman and Gary C. Hart, EM2:Apr 74:415:10502
Nonstationary Stochastic Model of Earthquake Motions, Mohammad Amin and Alfredo H.-S. Ang, EM2:Apr 68:559:5906
Nonsymmetric Modes of Complete Spherical Shells, John F. Gormley and William C. L. Hu, EM3:June 69:545:6606
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
Numerical Biaxial Characterization for Concrete, Karl M. Romstad, Michael A. Taylor and Leonard R. Herrmann, EM5:Oct 74:935:10879
Numerical Fourier Transform in Random Vibration, Jann-Nan Yang and Masanobu Shinozuka, EM3:June 69:731:6629
Numerical Solution of Moderately Thick Plates, Rajabhau S. Deshmukh and Robert R. Archer, EM5:Oct 74:903:10860
Numerical Solutions to Free-Surface Axisymmetric Flows, Roland W. Jeppson, EM1:Feb 69:1:6381
Onset of Instability Of Power-Law Fluid in Couette Flow, Yun-Sheng Yu and Dan B. McVickar, EM1:Feb 71:1:7887
On the Accuracy of Timoshenko's Beam Theory, G. Richard Cowper, EM6:Dec 68:1447:6285
On the Bound of First Excursion Probability, Masanobu Shinozuka and Jann-nan Yang, EM2:Apr 69:363:6499
Open-Channel Flow Equations Revisited, Ben Chie Yen, EM5:Oct 73:979:10073
Optimal Flexure Fields for Corners, George I. N. Rozvany, TN: EM4:Aug 74:10692
Optimal Multifunctional Material Systems, Edward M. Krokosky, EM2:Apr 71:559:8077
Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107:10041

Optimal Random Vibration Absorbers, Raymond G. Jacquot and David L. Hoppe, TN: EM3:June 73:612:9765
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
Optimum Stiffness and Strength of Elastic Structures, Ernest F. Masur, EM5:Oct 70:621:7580
Parametric Vibration Response of Columns, Martin L. Moody, EM3:June 69:665:6619
A Path Criterion for Deformation Plasticity Theory, Kerry S. Havner, EM3:June 69:747:6630
Peak Distribution of Random Wave-Current Force, Chi C. Tung, EM5:Oct 74:873:10843
Penetration of Beam on Plastic Foundation, Robert J. Green, TN: EM6:Dec 71:1769:8559
Performance Requirements for Fireproofing Materials, Lawrence G. Seigel, EM3:June 74:489:10598
Periodic Excitation of Multiple-Unit Impact Dampers, Sami F. Masri, EM6:Dec 70:1195:7747
P-Function Approximations For Jet Momentum Flux, W. Hall C. Maxwell and Kuo- Cheng Chang, TN: EM4:Aug 72:1011:9082
Plane Oscillatory Flow Past Rectangular Obstacles, Le-Chung Cheng, Marlyn E. Clark and James M. Robertson, EM4:Aug 74:707:10719
Plane Stress Limit Analysis by Finite Elements, Ted B. Belytschko and Philip G. Hodge, Jr., EM6:Dec 70:931:7746
Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694
Plastic Analysis of a Plate Sealing a Fluid, Richard H. Lance and David N. Robinson, EM6:Dec 70:1183:7742
Plastic Buckling Of Point-Loaded Spherical Shells, Stephan S-K Wang and Sanford B. Roberts, EM1:Feb 71:77:7930
Plastic Buckling of Shells Under Cyclic Loading, Kenneth W. Neale and John Schroeder, EM1:Feb 74:63:10345
Plastic Indentation of Metal Blocks by Flat Punch, Wai F. Chen, EM3:June 70:353:7370
Post-Buckling Behavior of Determinate Beams, Scott T. Woolcock and Nicholas S. Trahair, EM2:Apr 74:151:10471
Postbuckling Behavior of Open Cylindrical Shells, Kuang-Han Chu and Peter Turula, EM6:Dec 70:877:7723
Postbuckling of Column under Distributed Axial Load, Tung-Ming Wang, TN: EM4:Aug 71:1323:8273
Post Lateral Buckling Behavior of Beams, Gerald Zamost and E. Russell Johnston, Jr., EM4:Aug 71:1133:8313
Potential Flow Over Spillways at Low Heads, Charles W. Lenau, EM3:June 67:95:5287
Pressure Buckling of Ring Encased in Cavity, James A. Cheney, EM2:Apr 71:333:8024
Pressure-Stabilized Drop-Shaped Tanks, John W. Leonard, TN: EM10:Oct 73:1110:10041
Pressurized Tubes Constrained by Rigid Collars, Furman W. Barton and Thomas H. Dawson, TN: EM3:June 73:9765
Probabilistic Analysis of Fiber-Reinforced Concrete, Antoine E. Naaman, Fred Moavenzadeh and Frederick J. McGarry, EM2:Apr 74:397:10491
Probabilistic Design for Random Fatigue Loads, Paul H. Wirsching and Edward B. Haugen, EM6:Dec 73:1165:10223
Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448
Probabilistic Response Analyses to Earthquakes, R. Narayana Iyengar and Kashi T. Sundara Raja Iyengar, EM3:June 70:207:7321
Properties of Spectral Moments with Applications to Random, Erik H. Vanmarcke, EM2:Apr 72:425:8822
Radial Dispersion in Ground-Water Flow, Bruce W. Hunt, EM6:Dec 74:1117:10998
Radial Flow Between Porous and Solid Discs, Chyan S. Chiou and Harold L. Weissberg, TN: EM6:Dec 71:1759:8559
Random Behavior of Columns, Paul H. Wirsching and James T. P. Yao, EM3:June 71:605:8183
Randomness of Settlement Rate under Stochastic Load, Eduardo E. Alonso and Raymond J. Krizek, EM6:Dec 74:1211:11027
Random Processes for Earthquake Simulation, Roy Levy, Frank Kozin and Robert B.B. Moorman, EM2:Apr 71:495:8057
Random Processes With Evolutionary Power, Masanobu Shinozuka, TN: EM4:Aug 70:543:7444
Random Vibration of Yielding Oscillator, Loren D. Lutes and Hirokazu Takemiya, EM2:Apr 74:343:10482
Random Walk Model for First-Passage Probability, Richard H. Toland and Cheng Y. Yang, EM3:June 71:791:8200
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337:9404
Rectangular Plates with Elastic Edge Supports, Suresh T. Gulati and Walker M. Buehl, TN: EM4:Aug 70:521:7444
Recycling Wastes for Structural Application, Seymour A. Bortz and Murray A. Schwartz, EM2:Apr 73:249:9648
Reinforced Concrete Design for Strength and Deformability, Mir M. Ali and Donald E. Grierson, EM5:Oct 74:839:10859
Relaxation of Piles in Sand and Inorganic Silts, Nai C. Yang, SM2:Mar 70:395:7123
Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6:Dec 71:1625:8584
Response Computation Using Truncated Taylor Series, Joseph E. Grant, EM2:Apr 71:295:8019
Response of Highway Bridges to Renewal Traffic Loads, Chi C. Tung, EM1:Feb 69:41:6383
Response of Nonlinear Beams and Plates to Ponding, Ahmed E. Salama and Martin L. Moody, EM1:Feb 69:195:6402
Response of Nonlinear Beam to Random Excitation, Henry R. Busby, Jr. and Victor I. Weingarten, EM1:Feb 73:55:9530
Response of Rate-Sensitive Frames to Impulsive Loads, Nicholas Perrone, EM1:Feb 71:49:7890
Response of Slender Columns to Rapid Compression, Martin L. Moody, EM1:Feb 69:211:6403
Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247:10236
Rotary Flow Meter as Turbulence Transducer, Erich J. Plate and James P. Bennett, EM6:Dec 69:1307:6955
Seepage Under Structure on Four Soil Strata, Charles W. Lenau, EM2:Apr 71:223:8058
Seismic Motion of Buildings with Buried Foundations, Stephen A. Thau, Andrej Umek and Rouben Rostamian, EM5:Oct 74:919:10870
Seismic Response Predictions of Bridge Pier, Robin Shepherd and Richard E. McConnel, EM3:June 72:609:8949
Series Solution to Problems in Elastodynamics, Wilfred W. Recker, EM4:Aug 71:1257:8328
Shakedown Of Plastic Structures With Unstable Parts, Giulio Maier, TN: EM5:Oct 72:1322:9228
Shakedown of Rolling Wheel under Hub Loading, Subhash C. Anand and Vijay K. Garg, EM6:Dec 74:1237:11035
Shallow Circular Vaults, James F. Dickie and Peter Broughton, EM1:Feb 73:1:9520
Shear-Flexible Orthotropic Plates Loaded in Plane, Charles W. Bert and Shyming Chang, EM6:Dec 72:1499:9450
Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716
Shells of Revolution with Concentrated Edge Forces, David G. Elms, EM3:June 69:711:6625
Simplified Theory of Thin Cylendrical Shells, Yung-shih Wang, Peter C.Y. Lee and David P. Billington, EM4:Aug 74:719:10720

Simulation Model of Urban Refuse Collection, Marcus M. Truitt, Jon C. Liebman and Cornelius W. Kruse, SA2:Apr 69:289:6508
Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106
Singular Integral Equation Solution For Torsion, Christopher C. Lo and Francis W. Niedenfuhr, TN: EM4:Aug 70:535:7444
Slow Non-Newtonian Flow in Zone of Separation, Arthur A. Giaquinta and Tin-Kan Hung, EM6:Dec 68:1521:6319
Small Vibrations of Uniformly Compressed Isotropic Elastic Solids, Paul Seide, TN: EM4:Aug 71:1337: 8273
Snap-Buckling of Shallow Prestressed Arches, Rodney J. Clifton, EM6:Dec 70:1157:7749
Soil Indentation by Translating Flanged Plate, Jack L. Dais, EM4:Aug 71:1057:8285
Solution for Gravity Flow Under a Sluice Gate, Delmar D. Fangmeier and Theodor S. Strelkoff, EM1:Feb 68:153:5797
Solution of Differential Equations in Structural Mechanics, G. Michael Folie, TN: EM6:Dec 70: 1297:7715
Solution of Elastic Plates by Invariant Imbedding, Nestor Distefano and Jaime Schujman, EM5:Oct 71:1349:8424
Solution of Flow Under Sluice Gate, Yong Kwun Chung, EM1:Feb 72:121:8744
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808
Southwell Plot for Beam-Columns, Robert H. Leicester, EM6:Dec 70:945:7750
Space-Framework Method for Three Dimensional Solids, Alan L. Yettram and Kenneth Robbins, EM6:Dec 67:21:5633
Spectral Simulation and Earthquake Site Properties, Shih-Chih Liu and Dilip P. Jhaveri, EM5:Oct 69: 1145:6844
Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807
Spherical Waves in Inelastic Materials, Jeremy Isenberg and Anjan K. Bhaumik, EM3:June 71:901: 8207
Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533
Stability Criteria for Shallow Arches, James F. Dickie and Peter Broughton, EM3:June 71:951:8217
Stability of a Heated Plastic Column, Li-Chung Tao and Atle Gjelsvik, EM5:Oct 69:1169:6849
Stability of Columns Subject to Impulsive Loading, Siegfried M. Holzer and Robert A. Eubanks, EM4: Aug 69:897:6734
Stability of Columns With Transient Loads, Siegfried M. Holzer, EM6:Dec 70:913:7730
Stability of Cylindrical Shells under Random Excitation, John A. Lepore and Robert A. Stoltz, EM3:June 74:531:10628
Stability of Edge-Reinforced Circular Plate, Rene Amon and Otto E. Widera, TN: EM5:Oct 71:1597: 8412
Stability of Framed Structures, Moshe F. Rubinstein and Richard M. Pickett, Jr., TN: EM2:Apr 73:429: 9641
Stability of Hyperboloidal Cooling Tower, Henry L. Langhaar, Arthur P. Boresi, Robert E. Miller and Jerry J. Bruegging, EM5:Oct 70:753:7635
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
Stability of Spaceframes, Mehdi S. Zarghamee and Jayant M. Shah, EM2:Apr 68:371:5878
Stability of Water Cooled Columns, Atle Gjelsvik, EM4:Aug 71:1205:8335
State-of-the-Art in Inflatable Shell Research, John W. Leonard, EM1:Feb 74:17:10334
Static and Dynamic Stability of an Imperfect Beam, Jorn S. Hansen and John Roorda, EM2:Apr 73:271: 9647
Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449
Statistical Linearization for Nonlinear Structures, Wilfred D. Iwan and I-Min Yang, EM6:Dec 71: 1609:8576
Statistical Model of Turbulence in Sediment-Laden Streams, W. J. Conover and N. C. Matalas, EM5: Oct 69:1063:6814
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72: 1205:9289
Statistics of Random Loading Relevant to Fatigue, Jann-Nan Yang, EM3:June 74:469:10591
Steady Free Surface Flow Over Wavy Bed, Chiang C. Mei, EM6:Dec 69:1393:6967
Steady Seepage Toward Circle of Finite Radius, Bruce W. Hunt, TN: EM2:Apr 71:599:8017
Steady-State Response of Yielding Shear Structure, Wilfred D. Iwan, EM6:Dec 70:1209:7774
Stiffness Matrix for Plates by Galerkin's Method, Barna A. Szabo and George C. Lee, EM3:June 69: 571:6608
Stochastic Frame Response Using Modal Truncation, Gary C. Hart, EM5:Oct 70:565:7596
Stochastic Hydrodynamics of Sediment Transport, Chao-Lin Chiu and Kuang-Chen Chen, EM5:Oct 69:1215:6858
Stochastic Model for Analysis of Pavement Systems, Hani Findakly, Fred Moavenzadeh and Joseph Soussou, TE1:Feb 74:57:10358
Stochastic Model of Turbulent Channel Flow, Jay C. Hardin and Arnold L. Sweet, EM2:Apr 71:375: 8056
Stochastic Seismic Analysis of Yielding Offshore Towers, Maharaj K. Kaul and Joseph Penzien, EM5:Oct 74:1025:10884
Strain Rate Effects in Particulate-Filled Epoxy, Larry W. Oline and Russell Johnson, EM4:Aug 71:1159: 8314
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. Mohan Malhotra, EM2:Apr 74:305:10489
Stress Concentrations Near Holes in Laminates, Richard M. Barker, Jon R. Dana and Charles W. Pryor, Jr., EM3:June 74:477:10590
Stresses in Circular Plates on Elastic Foundations, Richard Bolton, EM3:June 72:629:8972
Stress Intensity Factors by Calibrated Finite Element Method, P. F. Walsh, TN: EM6:Dec 72:1611:9396
Stress Waves at Rigid Right Angle Joint, James A. Mandel, Rajendra K. Mathor and Yuan C. Chang, EM4:Aug 71:1173:8316
Strongly Curved Finite Element for Shell Analysis, John W. Leonard and Chin-Tsang Li, EM3:June 73:515:9805
Structural Design for Bounds on Dynamic Response, J.-M. Chern, J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646
Structural Response By Discrete-State Computation, Raymond G. Jacquot and Christos T. Constantinides, TN: EM2:Apr 72:497:8815
Structure-ground Interaction in Earthquakes, Johann H. Rainer, EM5:Oct 71:1431:8422
Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141: 8738
Surface-Bonded Concrete-Block Panels, Herbert W. Busching, Donald H. Hamilton and James G. Goree, EM2:Apr 74:359:10493
Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6: Dec 72:1417:9446
Tapered Cantilevers with Varying Distributed Loads, Tung-Ming Wang and Chun-Hsiung Lee, TN: EM4: Aug 73:919:9898
Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72: 1087:9260
Testing and Design of Advanced Composite Materials, Edward M. Lenoe, EM6:Dec 70:809: 7729
Thermal Buckling of a Bimetallic Beam, David Burgreen and Phillip J. Manitt, EM2:Apr 69:421: 6509

Thermal Buckling of Restrained Skew Plates, Mudlapur S. Suryanarayana Prabhu and Somayajulu Durvasula, TN: EM6:Dec 74:1292:10979
Thermal Stresses in Multilayer Anisotropic Shells, Tung D. Lin and Donald E. Boyd, EM3:June 71: 829:8206
Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554
Thermoviscoelasticity of Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM3:June 74:575: 10621
Thick Rectangular Beams, Kashi T. Sundara Raja Iyengar, Chuen-Yuan Chandrashekhara and V. K. Sebastian, TN: EM6:Dec 74:1277:10979
Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823: 9095
Thick-Shell Stress Resultants, Frank G. Bercha and Peter G. Glockner, TN: EM3:June 72:757:8931
Thin Laminates with Homogeneous Elastic Properties, Joel I. Abrams and Ernest R. Scheyhing, EM6:Dec 70:847:7758
Three-Dimensional Bar Cell for Elastic Stress Analysis, Alexander Hrennikoff and A. Gantayat, EM3:June 70:313:7352
Three-Dimensional Vibrations of Orthotropic Cylinders, Fang-Hui Chou and Jan D. Achenbach, EM4:Aug 72:813:9102
Time-Dependent Maximum of Floor Live Loads, Abraham M. Hasofer, TN: EM10:Oct 74:1086: 10856
Torsional Vibrations of Conical Frustum, Surendra R. Shah, EM5:Oct 71:1521:8452
Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130
Torsion of Bars of Regular Polygonal Cross Section, Enrique Romanelli, Mario J. Maurizi and Patricio A. Laura, EM2:Apr 72:415:8809
Torsion of Cylinders with Multiple Reinforcement, You-Ming Kuo and Harry D. Conway, EM2:Apr 74:221:10460
Torsion of Multilayered Rectangular Section, John R. Booker and Sritawat Kitipornchai, EM5:Oct 71: 1451:8415
Torsion of Nonhomogeneous Solid, Manoon Chuaprasert and Mumtaz K. Kassir, EM4:Aug 73: 703:9948
Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248
Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73: 715:9918
Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72: 211:8737
Transient Thermal Stresses in Rectangular Prism, John B. Cheung, Kuppusamy Thirumalai and Ta-Shen Chen, TN: EM2:Apr 74:463:10455
Transverse Anisotropy In Disks And Plates, Sridhara D.N. Murthy and Archibald N. Sherbourne, TN: EM4:Aug 72:1005:9082
Transverse Beam Vibration Nonlinear Constraint, Mohammed Ali Dokainish and Rajnish Kumar, EM6:Dec 72:1381:9431
Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau-Kai Cheung, EM5:Oct 72: 1225:9233
Triangular Framework Model for Plate Bending, Eero-Matti Salonen, TN: EM1:Feb 71:149:7858
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72: 1365:9445
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Turbulence Structure in Plane Couette Flow, James M. Robertson and Henry F. Johnson, EM6:Dec 70: 1171:7754
Turbulent Diffusion and Schmidt Number of Particles, Michael K. Householder and Victor W. Goldschmidt, EM6:Dec 69:1345:6961
Turbulent Flow Near Smooth Wall, Robert Gerard, EM6:Dec 74:1129:10999
Turbulent Flow of Non-Newtonian Suspensions in Pipes, V. R. Krishna Murthy and Iraj Zandi, EM1: Feb 69:271:6427
Turbulent Helical Flow in an Annuluf, Lynn W. Gelhar and Peter L. Monkmeyer, EM1:Feb 68:295: 5815
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144
Unified Analysis of Grid Turbulence, Eduard Naudascher and Cesar Farell, EM2:Apr 70:121: 7214
Unified Approach to the Theory of Plastic Structures, M. Z. Cohn, Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246
Unsymmetrical Bending of Prestressed Annular Plate, William E. Alzheimer and R. T. Davis, EM4:Aug 68:905:6066
Upper Bound Analysis Of Rough Footing Indentation, Lawrence A. Larkin, TN: EM2:Apr 72:493:8815
Upper Bound for Two-Sided Barrier Problem, Arnold L. Sweet, EM6:Dec 69:1369:6962
Upper Bounds in Complementary Energy Method, Cenap Oran, EM4:Aug 71:1093:8289
Validity of Stokes Theory for Accelerating Spheres, Lyle F. Mockros and Robert Y.S. Lai, EM3:June 69:629:6613
Variational Approach to Beams on Elastic Foundations, N. S. V. Kameswara Rao, Y. C. Das and M. Anandakrishnan, EM2:Apr 71:271:8034
Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, Jamshid Ghaboussi and Edward L. Wilson, EM4:Aug 72:947:9152
Variational Principles for Flow in Porous Media, Shlomo P. Neuman and Paul A. Witherspoon, EM2:Apr 71:359:8023
Variation of Mean Winds with Height in Hurricanes, Emil Simiu, TN: EM4:Aug 74:832:10692
Vectors in Dimensional Analysis, Johannes Gessler, EM1:Feb 73:121:9561
Vibration Analysis of Thin Cylindrical Containers, Anand S. Arya, Shashi K. Thakkar and Atul C. Goyal, EM2:Apr 71:317:8010
Vibration of Circular Plates with Edge-Beams, Richard J. Stuart and John F. Carney, III, TN: EM4:Aug 73:907:9898
Vibration of Conical Shells Subjected to Torsion, Victor I. Weingarten, EM1:Feb 68:47:5783
Vibration of Structures Having Changing Boundaries, Manuel A. G. Silva and Leon M. Keer, EM3:June 71:1007:8220
Vibration of Support Excited Tubes in Coaxial Flow, Stanley A. Knudson and Gerald S. Smith, EM6: Dec 70:1039:7775
Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
Vibrations of Triangular Viscoelastic Plates, John S. Hewitt and Jagannath Mazumdar, EM6:Dec 74: 1143:11004
Viscoelastic Plate on Poroelastic Foundation, Eugene L. Marvin, EM4:Apr 72:911:9133
Volume Minimization of Thin Plates Subject to Constraints, Zachary Sherman and Ping-Chun Wang, EM3:June 71:741:8192
Water Surface Velocities Induced by Wind Shear, Erich J. Plate, EM3:June 70:295:7351
Wave Diffraction by Rigid Foundations, Martin A. Salmon, TN: EM4:Aug 73:902:9898
Wave Propagation in Transversely Isotropic, Layered Cylinders, Henry E. Keck and Anthony E. Armenakas, EM2:Apr 71:541:8071
Wind Action on Simple Yielding Structures, Barry J. Vickery, EM2:Apr 70:107:7204
Wind Load on Cylinder With Spanwise Protrusion, David F. James and Quan-Si Truong, EM6:Dec 72: 1573:9416
Yield and Failure of Glass-Epoxy Composites, Ori Ishai, Arlo E. Moehlenpah and Aaron Preis, EM5: Oct 70:739:7616

Yielding in Framed Structures Under Dynamic Loads, Navin C. Nigam, EM5:Oct 70:687:7613
Yielding of Fiber Reinforced Tresca Material, John D. Helfinstine and Richard H. Lance, EM4:Aug 72:849:9132
Yield Points For Partially Loaded Spherical Domes, John Schroeder and Prasanta Roy, EM1:Feb 71:63:7888

Engineering Schools

CE Students Learn Through Socially Useful Projects, Fred Lamar, CE:Jan 71:60
Engineering Education and a Professional Ethic, Charles R. Schrader, PP1:Oct 71:147:8460
The Future of Private Engineering Education, Wils L. Cooley and Clive L. Dym, EI2:Apr 74:97:10458
The Nature of Continuing Education, Alfred C. Ingersoll, PP1:Jan 72:113:8660
The Professional School - A Sleeping Giant, Grover L. Rogers and James H. Schaub, CEE:Feb 74:1-752

Engineering Services

Engineering Services for Construction, Altaf Hussain, CO3:Sept 74:273:10787
Marketing Professional Engineering Services, Lynn D. Dorsey, CE:Oct 73:99
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084

Engineering Societies

ASCE Drafts Professional Civic Involvement Recommendations, CE:June 74:77
ASCE Involvement in Social Action, Stephen L. Tuttle, EI3:July 74:201:10690
Career Guidance Programs for Minority Youth, Lawrence M. Moy and James E. Roembke, EI3:July 74:207:10691
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
Engineering Licensure Innovations, C. Allen Wortley, EI3:July 74:213:10642
The Engineering Societies Library, Gail Bays, CE:Aug 74:88
Engineering Societies' Program for Training Minority Manpower, Sol E. Cooper, PP1:July 69:61:6694
The Making of a "Pro"—A Faculty Viewpoint, Dan H. Pletta, EI3:July 74:217:10645
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
Should Registration Involve Politics?, Wesley E. Haynes, CE:May 71:83

Engineering Standards

Designing Arterial Streets for Safety, Laurence A. Dondanville, TE1:Feb 71:43:7885

Engineers

American Engineering Unions, Hatim M. Hajj, PP2:Apr 73:213:9657
Civil Engineer in Federal Government, Nicholas J. Oganovic, PP1:Sept 70:9:7546
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
Dsc, Development Building: The Team Approach, Jack R. Newville, CE:Dec 72:93
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
Engineering and Society: A Contemporary Challenge, George R. Beetle, CE:Feb 71:51
Engineering Licensure Innovations, C. Allen Wortley, EI3:July 74:213:10642
The Engineering Technician: An Underutilized Resource, Ronald P. Shumate, CE:Feb 72:64
Engineers and the Public Press, William H. Wisely, CE:Dec 69:31
Engineers in Public Practice Face the Union Problem, Waldo G. Bowman, CE:Apr 69:49
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Ethics of Negotiating with Prospective Employers, Harold G. Biedermann, PP1:Dec 67:27:5656
Fazlur Khan, EN-R's Most Recent Man of the Year, CE:Apr 72:85
Former ASME head dies, CE:Aug 72:96
Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672
Management Structure for Irrigation, Richard A. Smith, IR4:Dec 70:475:7722
Man-Oriented Program System for Engineering, George Rabe and Vincent A. Trossello, ST1:Jan 71:223:7850
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
Practitioners Teach Students Art of Highway Engineering, David A. Novick, Howard S. Newman and Eben Vey, CE:Jan 72:45
Professional Education: The Need for Creativity, Charles R. Schrader, PP1:Jan 72:85:8654
Prof. Timoshenko Dies, CE:Oct 72:108
Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517
Report on Recommended Amendments to AIA General Conditions (A-201), Eleventh Edition, September, 1967, by the Committee on Contract Administration of the Construction Division, Robert D. Rowland, Chmn., CO2:Oct 70:165:7640
Role of a Small College in Education of Engineers, Jon A. Cole and Edward F. Cross, CEE:Feb 74:1-55
Should Registration Involve Politics?, Wesley E. Haynes, CE:May 71:83
Survey of Training Programs for Civil Engineers, Jose J. Correa, CE:Aug 69:49

Engine Noise

Temperature-Toxicity Model for Oil Refinery Waste, James H. Reynolds, E. Joe Middlebrooks and Donald B. Porcella, EE3:June 74:557:10580

Enteric Bacteria

Bacterial Dieoff in Ponds, Ernst M. Davis and Earnest F. Gloyna, SA1:Feb 72:59:8714
Destruction of Bacteria and Viruses in Seawater, Ralph Mitchell, SA4:Aug 71:425:8299
Enteric and Pathogenic Bacteria Dieoff Effects by Algae, E. M. Davis, M. Pen and Earnest F. Gloyna, NSCD:71:539
Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, SA5:Oct 71:601:8423

Enterobacteriaceae

Biological Control Of Intestinal Bacteria and Viruses, Ralph Mitchell, CEO-II:70:1241
Enteric Disease Criteria for Recreational Waters, John M. Henderson, SA6:Dec 68:1253:6320

Entrainment

Buoyant Forced-Plumes in Cross Flow, Vincent H. Chu and Michael B. Goldberg, HY9:Sept 74:1203:10805
Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555
Influence of Suction and Blowing on Entrainment of Sand Particles, Daniel M. Oldenziel and Warner E. Brink, HY7:July 74:935:10672
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Surface Jet at Small Richardson Numbers, Frank Engelund and Flemming Bo Pedersen, HY3:Mar 73:405:9588
Turbulent Diffusion and Entrainment in Two-Layer Flow, T. Carstens, WW1:Feb 70:97:7081
Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992

Environmental Effects

Annotated Bibliography of State-of-the-Art Articles for Pipelines in the Ocean. Progress Report of the Task Committee on Pipelines in the Oceans, Committee on Pipeline Planning, John G. Bomba, Chmn., PITO:74:81
Balancing Transportation, John E. Hirten, BP73:Dec 73:1

Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395:10146
Bonneville Power Administration Electric Transmission and the Environment — Past, Present and Future, George S. Bingham, EPCE:Aug 74:579
Boulder Creek - An Environmental Status Report, Gerard E. Mick, CO1:Mar 74:1:10389
The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73:69:9599
The City Viewpoint on Environmental Issues, Milton Pikarsky, UT73:May 73:1
Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50
Computer Model for Highway Noise Prediction, Kenneth E. Nelson and Joseph L. Schofer, TE2:May 74:325:10517
Construction Noise-Its Origin and Effects, Alan S. Hersh, CO3:Sept 74:433:10827
Correlation of Environmental Impact Evaluations and Highway Transportation Planning, Gerald D. Love, UT73:May 73:71
Cost of Thermal Effluent Standards for Power Plants, Leonard Ortolano and Frank A. Smith, PO1:July 74:15:10649
Creativity and the Anti-Technologists, Samuel C. Florman, CEWAU:74:18
Current Questions, Problems, and Research Needs, State-of-Art Report 2, S. Covarrubias, A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63
Defending the Environment: A Strategy for Citizen Action, by Joseph L. Sax (Book Review), Gilbert White, CE:Sept 71:20
Development of a Planning Program: A Case Study, William K. Johnson, Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71
Dredging and the Environment: The Plus Side, Thomas M. Turner and Virginia Fairweather, CE:Oct 74:62
Ecological Assessment of Transportation Alternatives, Jason M. Cortell and Donald A. Yonika, UT73:May 73:143
Ecological Consequences of Winter Cloud Seeding, Theodore W. Weaver and Arlin B. Super, IR3:Sept 73:387:9988
Ecological Impacts of Freeway Construction, Norbert Pointner, UT73:May 73:215
Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751
Effects of Environmental Concerns on Education, Paul W. Purdom, CEE:Feb 74:1-508
Effects of Urbanization on Water Quality, Robert P. Shubinski and Gerald F. Tierney, UT73:May 73:179
Electric Utility Problems in Meeting Urban Planning Requirements, Alfred R. Golze, UP2:Sept 73:193:10016
Employment Survey -- Environmental Technology, Robert H. Creamer, CEE:Feb 74:1-270
Energy: A 40 Watt Outlook, Virginia Fairweather, CE:Dec 74:45
The Engineer and the Environment, C. Maxwell Stanley, CE:July 72:78
Engineering 1972-A Review, Thomas C. Kavanagh, PP3:July 73:287:9889
Envirionment and Construction Management Engineers, David A. Spivey, CO3:Sept 74:395:10804
Environmental Aspects of Aquatic Plant Control, Thomas R. Bartley and Edward O. Gangstad, IR3:Sept 74:231:10810
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
The Environmental Capacity of Roadway Networks, Robert J. Maxman and Carl P. Sharpe, UT73:May 73:237
Environmental Concerns and the Controversial Project, Elmer B. Isaak, UT73:May 73:299
Environmental Design and Construction Response on Highway Relocations for Mountain Reservoir, Phillip L. Cole and Sydney Steinborn, CO1:Mar 74:7:10398
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Environmental Impact of the New Jersey Turnpike Toms River Extension, John C. Goodrich and Byron H. Willis, UT73:May 73:253
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877
Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Environmental Issues, Effects, and Solutions, Lynn A. Brown, IR73:Aug 73:511
Environmental Litigation: Lessons From the Courts, William K. Johnson, CE:Jan 72:55
Environmental Management Broadening the Base of Civil Engineering Education, William H. Matthews, CEE:Feb 74:1-518
Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994
Environmental Protection Measures at Martis Creek Lake, California, Joseph C. Sciandrone, CE:Mar 74:80
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
Environmental Studies for Rocky Mountain Highway, Austin B. Milhollin, UP1:Mar 74:17:10387
Environment, Power, and Impact Assessment — The Politics of Information, Michael D. Bradley, EPCE:Aug 74:653
Evolution of Location and Design of TVA Power Substations, Robert C. St. Clair and John W. Sanders, EPCE:Aug 74:525
Factors Affecting Environmental Performance of High-Strength Bolts, Walter K. Boyd and W. S. Hyler, ST7:July 73:1571:9866
Floating Breakwaters, David S. Miller, CE:Mar 74:77
Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105
Fundamentals of Comprehensive Environmental Planning, David A. Bella, EI1:Jan 74:17:10267
Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127
Health Aspects of Water Management, Daniel A. Okun, PWS:Nov 72:133
Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment, Thomas A.L. Paton, PWS:Nov 72:81
The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292
Hurricane Barrier Environmental Planning in Texas, Sidney H. Tanner and Edward J. Pullen, WW4:Nov 73:459:10171
Hydraulic Engineering and the Environment, William A. Hunt, Chmn., HYB:74, 466pp.
Hydrodynamic Analysis of Sludge Dumped in Coastal Waters, Billy L. Edge, CE13:72:III-2187
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Improving Environmental Impact Procedures for Highway Projects, James Cianciosi and Allan G.R. Bullen, UT73:May 73:33
Industrial Sewage in the Weser Estuary, Gunter Luck, CE13:72:III-2137
Intake System Assessment for Central Columbia River, David L. Schreiber, C. Dale Becker, James J. Fuquay and Ronald A. Chitwood, PO2:Dec 74:139:11001
Introducing Undergraduates to Environmental Quality, Alonzo W. Lawrence, CEE:Feb 74:1-83
Introduction to Session VI -- Applications of New Technology to the Solution of Environmental Problems, Samuel S. Baxter, PWS:Nov 72:201
Issues in Water Resources Impact Assessment, Leonard Ortolano, HY1:Jan 74:173:10292
Issues of Environmental Engineering Education, Wesley O. Pipes, CEE:Feb 74:1-496
Dsc, Level of Thermal discharge, Eugene T. Jensen, CE:July 72:65

Marine Monitoring of the Victoria Sewerage System, Norval Balch, Derek V. Ellis and Jack L. Littlepage, CE13:72:III-2117
Medicine -- Introduction, M. D. Morris, CEWAU:74:135
Modern Civil-Environmental Engineering Curriculum, Herman A.J. Kuhn and William D. Berg, CEE:Feb 74:1-104
Multiobjective Planning for Environmental Quality, George H. Wallen, IRS:Sept 72:359
National Environmental Policy Act of 1969 and Engineering Curriculum, Joseph Nemec, Jr., CE:Mar 73:64
Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032
New Horizons in Rock Machanics, H. Reginald Hardy, Jr., Editor and Robert Stefanko, Editor, RM14:73, 785pp.
New Town Planned Around Environmental Aspects, Ralph C. Everhart, CE:Sept 73:69
The Numbers Game, Arnold H. Vollmer, UT73:May 73:77
Offshore Airport Site Planning, Frank T. Wheby, TE3:Aug 74:543:10725
Opening Remarks — Subsurface Exploration for Heavy Construction, Steven I. Majtenyi, EFSE:Aug 74:8
Optimal Development of Multipurpose Hydro Projects, Phillip R. Hoffman, PO1:July 74:43:10655
Dsc, Paperwork and Environmental Considerations, James E. McCarty, CE:Jan 72:48
Pedestrian Mall: Purpose, Form, Design, Success, Crawford C. Westbrook, BP73:Dec 73:74
Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539
Planning the Pedestrian Environment, Herbert S. Levinson, BP73:Dec 73:37
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205:9971
Problems and Deficiencies: Economics and Environmental Considerations, David R. Miller, PITO:74:63
Problems of Water Quality Management in Western River Basin Systems, Arthur F. Pillsbury, IR73:Aug 73:729
Public Health Effects of Water, Air and Land Pollution, Gwilym M. Roberts, PWS:Nov 72:117
Public Service Facilities and the Environment, George E. Tomlinson, PWS:Nov 72:95
Quantifying Impact of Transportation Systems, William L. Smith, UP1:Mar 74:79:10416
Reappraising Metropolitan Transportation Needs, Thomas F. Humphrey, TE2:May 74:353:10532
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
Research Needs in Evironmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, Kay H. Jones, Chmn., EE6:Dec 73:801:10198
San Francisco Bar Dredge Material Disposal, Richard M. Ecker and John F. Sustar, CE13:72:II-913
Selected Approaches to Environmental Impact Evaluation of Regional Alternatives, Salvatore J. Bellomo and Sally D. Liff, UT73:May 73:273
Shotcrete Safety and Environmental Control, Robert C. Bates, SUSS:July 73:130
Simulation Techniques for Water Project Analyses, Milton L. Holloway and Lial F. Tischler, IR3:Sept 74:211:10784
Slant Drilled Lake Pump Station, Wilbur F. Gaughan and Robert B. Mitchell, EPCE:Aug 74:391
Some Biological Impacts of Converting Powerplants from Oil to Coal, Paul F. Berg, EPCE:Aug 74:623
Some Ecological Criteria for the Preparation and Review of Environmental Impact Statements, Conrad A. Istock, UT73:May 73:163
Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145
Thermal Power Plant Environmental Studies, M. J. Doyle, Jr. and Ramon F. Cayot, CE13:72:III-2075
Toward A Socio-Technology of High Rise Buildings, George Bugliarello and Harold Simon, TB:73:Ia-1-270
Transformation of Plans into Actions, Johannes W Kurz, UP2:Sept 73:183:10029
Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949
Using Technology to Solve Environmental Problems, Ernest T. Smerdon and Robert B. Gaither, EI4:Oct 74:273:10847
Venice Waterways Project Impact Reports, Donald C. Tillman and Lloyd D. Paulsen, UP2:Nov 74:191:10935
Water Pollution and Associated Effects from Street Salting, Richard Field, Edmund J. Struzeski, Jr., Hugh E. Masters and Anthony N. Tafuri, EE2:Apr 74:459:10473
Water Quality Management - Power Station Coal Ashes, Dennis W. Weeter, James E. Niece and Anthony M. DiGioia, Jr., EPCE:Aug 74:633
Why Regional Airports, Jack D. Downey, ASC73:Mar 73:153
WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121
20th Century Renaissance, Donald N. Anderson, PP3:July 73:373:9886

Environmental Engineering

Adsorption of Pesticides by Clay Minerals, Ju-Chang Huang and Cheng-Sun Liao, SA5:Oct 70:1057:7603
Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098
Aesthetics of Tall Buildings, William Henderson, TB:73:Ia-1-256
Agricultural Waste Management, J. Ronald Miner, EE2:Apr 74:363:10470
Agricultural Waste Management, by the Committee on Agricultural Waste Management of the Environmental Engineering Division, Dan M. Wells, Chmn., EE1:Feb 74:1:10317
Air Pollution Patterns in an Urban Street Canyon, Frederick A. Brunner and Karl B. Schnelle, Jr., EE2:Apr 74:311:10447
Antidote for Environmental Hysteria, Samuel S. Baxter, PP1:Jan 72:1:8663
Application of Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE1:Feb 74:61:10322
Arctic Construction Problems and Techniques, Neil T. Monney, Millard M. Hill, P. Oien, S. J. Rowland and F. L. Vail, CO1:Jan 68:89:5760
Atmospheric diffusion and deposition of Particulate Matter, Robert W. Cleary, Donald Dean Adrian and Richard J. Kinch, EE1:Feb 74:187:10344
Attitudes in Sludge Treatment and Disposal, Richard I. Dick, EE5:Oct 74:1077:10844
Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
Basic Contemporary Urban Problems, Felipe U. Derteano, UP2:Oct 70:133:7608
Behavioral Sciences Investigation, James Kise, ABS:71:101
Behavior Setting, Synormorphy, and Environmental Design, Paul V. Gump and Julius Marek, ABS:71:61
Better Designs for Man through Teamwork, Training, Research, and Feedback, Calvin W. Taylor, ABS:71:11
Biological Denitrification and Phosphate Removal, Wayne E. Wruble, Charles C. Plummer and Mark J. Hammer, TN: EE5:Oct 74:1199:10855
Blueprint for the New ASCE Year, Samuel S. Baxter, CE:Jan 71:43
Book Review: Focus On Environmental Geology -- A Collection Of Case Histories And Readings From Original Sources, Richard E. Gray, CE:Aug 73:28
Boundary Layer Separation Concept of Settling Tanks, Yishu Chiu, EE6:Dec 74:1213:11019

Capital Cost Minimization of Drainage Networks, Jarir S. Dajani and Yakir Hasit, EE2:Apr 74:325:10448

Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5:Oct 73:639:10043

Case Studies of Interdisciplinary Team Efforts in Environmental Design, Eugene D. Jones, ABS:71:75

Characterization of Mixing Aerated Lagoons, Keith L. Murphy and Alfred Warren Wilson, EE5:Oct 74:1105:10865

Chlorine Disinfection of Low Temperature Waters, Leroy C. Reid, Jr. and Dale A. Carlson, EE2:Apr 74:339:10443

The City is the People--So is the Planning/Building Process, Morton Hoppenfeld, ABS:71:91

The City Viewpoint on Environmental Issues, Milton Pikarsky, UT73:May 73:1

Clarification of Book-Mill Effluent by Enzyme-Alum, Yeun C. Wu, EE3:June 74:541:10573

Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812

Clean Water: The Management Problem, Percy Carroll, CWFE:Mar 71:13

Coagulation of Iron Oxide with Alum, Kamlesh K. Jain, Kun Li and Robert R. Rothfus, EE4:Aug 73:411:9945

Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489:9944

Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85

Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578

Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1:Feb 73:53:9518

Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60

Concrete Containments for Reactors-State-of-Art, Chen Pang Tan, ST7:July 70:1543:7424

Concrete Dam Design and Construction Improvements, Ellis L. Armstrong, ECCD:72:3

Condenser Cooling and Pumped-Storage Reservoirs, Eli Sefchovich, PO3:July 71:611:8247

Consideration of Alternatives in Decision Making, Ellis L. Armstrong, EI2:Apr 74:119:10498

Consumers Water Quality Index, Thomas M. Walski and Frank L. Parker, EE3:June 74:593:10601

Control of Anaerobic Digestion Process, Aaron S. Collins and Bobby E. Gilliland, EE2:Apr 74:487:10475

Control of Water Pollution During Dam Construction, Charles A. McCullough and Robert R. Nicklen, SA1:Feb 71:81:7927

Conversion of Organic Waste to Fuel, John L. Cox, Warrack G. Willson and Edward J. Hoffman, EE3:June 74:717:10579

Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104

Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434

Critical Oxygen Deficit for Bank Outfall, Omar E. Rood, Jr. and Edward R. Holley, EE3:June 74:661:10585

Damage Assessment of Household Water Quality, Dennis P. Tihansky, EE4:Aug 74:905:10700

Debris Accumulation in Ancient and Modern Cities, Charles G. Gunnerson, EE3:June 73:229:9771

Design and Operation Model of Activated Sludge, Joseph H. Sherrard and Alonzo W. Lawrence, EE6:Dec 73:773:10220

Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183

Design of Fish Conserving Intake System, Dallas I. Downs and Kenneth R. Meddock, PO2:Dec 74:191:11008

Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051

Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050

Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191

Design Principles of Waste Stabilization Ponds, D. Thirumurthi, SA2:Apr 69:311:6515

Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314

Determining Specific Deposit by Backwash Technique, Kou-ying Hsiung, EE2:Apr 74:353:10449

Deterministic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE4:Aug 74:979:10735

Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367:10227

Disposal of Domestic Wastewater by Hillside Sprays, Endel Sepp, EE2:Apr 73:109:9673

Diversion of Wastewater from Madison Lakes, William C. Sonzogni and G. Fred Lee, EE1:Feb 74:153:10318

DO-Sag in Oscillating Flow, Wen-Hsiung Li and Michael Edwin Kozlowski, EE4:Aug 74:837:10713

Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100

Dynamic Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE4:Aug 74:869:10701

Ecology of Blue-Green Algal Viruses, Robert E. Cannon, Miriam S. Shane and Eugene DeMichele, EE6:Dec 74:1205:11012

Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067

Economical Refuse Truck Size Determination, Richard P. Cardile and Francis H. Verhoff, EE3:June 74:679:10612

Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537

Economic Design of Low Pressure Air Piping Systems, J. Michael Osborne, EE6:Dec 74:1263:11031

Education Today for Environmental Challenges Tomorrow, Russell S. Stearns, PP1:Oct 70:67:7554

Edward Hyatt Powerplant Intake Structure, Paul H. Gilbert, PO1:Mar 69:110:6471

Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722

Effect of Suspended Wastes on System Design, Liang-tseng Fan, Ming-ching T. Ku and L. E. Erickson, EE6:Dec 74:1231:11018

Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73:691:10046

Effects of Desposit Resuspension on Settling Basin, Takeichiro Takamatsu, Masaaki Naito, Sadataka Shiba and Yasuyo Ueda, EE4:Aug 74:883:10705

Effects of Iron on Activated Sludge Treatment, John L. Carter and Ross E. McKinney, EE2:Apr 73:135:9679

Effects of Reservoir Impoundment on Water Quality, Frank H. Posey, Jr. and Joseph W. DeWitt, PO1:Jan 70:173:7041

Effects of Temperature on Phytoplankton Growth, Raymond P. Canale and Allan H. Vogel, TN: EE1:Feb 74:231:10309

Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196

Employment Survey -- Environmental Technology, Robert H. Creamer, CEE:Feb 74:1-270

The Engineer and the EIS: Some NEPA Court Decisions, Jack Golden and Thomas R. Mongan, CE:Mar 74:49

The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032

Engineering For People, Richard R. Harbert, PP3:July 72:387:9058

Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265:9757
Environmental Aspects of Site Selection, Eugene F. Dudley, PO1:June 72:21:8971
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
The Environmental Challenge--Values in Conflict, James H. Wright, PP1:Oct 71:17:8471
Environmental Considerations in Design of Transmission Lines, Harry Brenman and Dwight A. Covington, PO3:June 70:369:7350
Environmental Design for Istanbul Sewage Disposal, Charles G. Gunnerson, EE1:Feb 74:101:10343
Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1:May 73:205:9738
Environmental Engineering Education -- An Employer's View, John E. Ball and John B. Malouf, CEE:Feb 74:1-426
Environmental Health and Community Planning, Joseph A. Salvato, Jr., UP1:Aug 68:23:6084
Environmental Impact Statements Discussed, CE:Feb 73:61
Environmental Management Broadening the Base of Civil Engineering Education, William H. Matthews, CEE:Feb 74:1-518
Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202
Environmental Problems and Monitoring in Coastal Waters, Arthur T. Ippen, CE13:72:I-9
Environmental Protection for Nuclear Applications, Dade W. Moeller and Abraham S. Goldin, SA3:June 69:373:6589
Environmental Protection Measures at Martis Creek Lake, California, Joseph C. Sciandrone, CE:Mar 74:80
Environmental Studies for Rocky Mountain Highway, Austin B. Milhollin, UP1:Mar 74:17:10387
Environmental Systems, Summary Report, Henry J. Cowan, TB:73:Ia-1-289
Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7
Equivalent Pipe Methods for Optimizing Water Networks--Facts and Fallacies, Pramod K. Swamee and P. Khanna, EE1:Feb 74:93:10375
Estimation of Estuarine Marsh Productivity, Eugene De Michele, TN: EE3:June 73:397:9764
Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
Evaluation of Fecal Streptococci Tests for Chlorinated Secondary Sewage Effluents, Shundar Lin, EE2:Apr 74:253:10452
Evaluation of Phosphorus Dynamics in a Watershed, Thomas H. Cahill, Patricia Imperato and Francis H. Verhoff, EE2:Apr 74:439:10445
Experiences with Interdisciplinary Teams, Norman M. Klein, ABS:71:83
Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177:9794
Express Bus Mass Transit, Joseph Barnett, TE2:May 70:133:7256
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901
Faecal Bacterial Kinetics in Stabilization Ponds, Gerrit v.R. Marais, EE1:Feb 74:119:10323
Federal Drinking Water Standards - Past, Present, and Future, James H. McDermott, EE4:Aug 73:469:9924
Federal Involvement Toward Clean Water for Our Future Environment, Eugene T. Jensen, CWFE:Mar 71:267
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
f_2 Coliphage as Tracer in Wastewater Basin, Kazuyoshi Kawata and Vincent P. Olivieri, TN: EE6:Dec 74:1307:10978
Fish and Wildlife Values in Water Development, James T. McBroom, IAWM:72:377
Gas Transfer Kinetics of Pure Oxygen System, James A. Mueller, Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792
Generic Feed Forward Control of Activated Sludge, John J. Davis, Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803
Goals and Objectives, Elizabeth J. McLean and Martin E. Goldsmith, MTI:May 72:267
Goals of the Conference, William J. Hedley, ABS:71:v
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
Health Aspects of Water Management, Daniel A. Okun, PWS:Nov 72:133
Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851
Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment, Thomas A.L. Paton, PWS:Nov 72:81
Household Wastewater Characterization, Kenneth Ligman, Neil Hutzler and William C. Boyle, EE1:Feb 74:201:10372
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061
How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal, Joseph L. Grant, PP2:Apr 73:159:9663
How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107
Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, HY11:Nov 72:1983:9372
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3:July 72:373:9029
Improving Environmental Impact Procedures for Highway Projects, James Cianciosi and Allan G.R. Bullen, UT73:May 73:33
Improving Mercury (II) Removal by Activated carbon, Michael J. Humenick, Jr. and Jerald L. Schnoor, EE6:Dec 74:1249:11032
In Defense of Dubos and Ellul, Kim de Rubertis, CE:Dec 72:51
Indirect Method of SO_2 Determination from Combustion, Thomas T. Shen, TN: EE3:June 74:795:10571
Indoor Territoriality: An Anthropological Perspective, Donald A. Kennedy, ABS:71:37
Industrial Sewage in the Weser Estuary, Gunter Luck, CE13:72:III-2137
Industrial Waste Charges, James A. Seagraves, EE6:Dec 73:873:10203
Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047
Influence of Free CO_2 on Q_{10} for Chlorella vulgaris, John T. Novak and H. David Sanders, TN: EE3:June 74:798:10571
Infrared Aerial Surveys in Environmental Engineering, Rudolph V. Matalucci and Mohamed Abdel-Hady, SA6:Dec 68:1071:6277
Integrated Management of Metropolitan Water Services, Edwin L. Vopelak, UWRM:71:36
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
Interface Specialists: A New Engineering Profession?, Granville H. Sewell, CEWAU:74:154
Introducing Undergraduates to Environmental Quality, Alonzo W. Lawrence, CEE:Feb 74:1-83
Introduction to Session VI -- Applications of New Technology to the Solution of Environmental Problems, Samuel S. Baxter, PWS:Nov 72:201

Introductory Remarks, Richard E. Burnett, ECCD: 72:347

Issues of Environmental Engineering Education, Wesley O. Pipes, CEE:Feb 74:1-496

Is Technology Relevant?, Michael C. Kavanaugh, CE: Oct 70:44

Keynote Address, Oscar S. Gray, ABS:71:1

Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1: Feb 73:73:9557

Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205

Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946

Leaching of Pollutants from Wood-Chip Slurry, Takashi Asano, Alan T. Towlerton and Robert L. Sanks, EE4:Aug 74:855:10707

Least Cost Design of Branched Pipe Network System, Arun K. Deb, EE4:Aug 74:821:10711

Least Cost Design of Water Main System in Series, Arun K. Deb, TN: EE3:June 73:405:9764

Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796

Logical Approaches to Power Supply and Environment, Riley D. Woodson, PO2:Oct 72:181: 9257

Management of Waste Fluids in Salaquifers, Raphael G. Kazmann, Oscar K. Kimbler and Walter R. Whitehead, IR4:Dec 74:413:10991

Marine Monitoring of the Victoria Sewerage System, Norval Balch, Derek V. Ellis and Jack L. Littlepage, CE13:72:III-2117

Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165: 9768

Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916

Metals in Wastewater Treatment, William H. Ailor, Jr., EE2:Apr 74:295:10444

Modern Civil-Environmental Engineering Curriculum, Herman A.J. Kuhn and William D. Berg, CEE:Feb 74:1-104

Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909: 10208

Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253: 9795

Multiobjective Planning for Environmental Quality, George H. Wallen, IRS:Sept 72:359

Multivariate Study of Refuse Collection Efficiency, Lawrence J. Partridge, Jr. and Joseph J. Harrington, EE4:Aug 74:963:10729

Multivariate Techniques for Water Quality Analysis, Jerome L. Mahloch, EE5:Oct 74:1119:10840

National Environmental Policy Act of 1969 and Engineering Curriculum, Joseph Nemec, Jr., CE: Mar 73:64

The Nature of Education in Environmental Engineering at Universities, Rolf Eliassen, CWFE: Mar 71:221

New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770

Nitrification Rate in Biological Processes, Ching-San Huang and Ninnian E. Hopson, EE2:Apr 74:409: 10462

Nitrogen Removal By Modified Activated Sludge Process, Srinivasalu Balakrishnan and W. Wesley Eckenfelder, Jr., SA2:Apr 70:501:7236

NO$_x$ Emmissions from Stationary Combustion Sources, by The Committee on Atmospheric Pollution of the Environmental Engineering Division, James J. Stukel, Chmn., EE3:June 74:641: 10581

Nonlinear Parameter Estimation in Water Quality Modeling, J. S. Shastry, Liang-tseng Fan and L. E. Erickson, EE3:June 73:315:9798

Nutrients And Aquatic Vegetation Effects, G. Wolfgang Fuhs, EE2:Apr 74:269:10453

Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73: 923:10200

Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650

Optimization of Urban Air Monitoring Networks, William P. Darby, Paul J. Ossenbruggen and Constantine J. Gregory, EE3:June 74:577:10577

Ordering Sewer Design Calculations, Paul M. Berthouex, Gary Wagner and Lawrence J.P. Scully, TN: EE6:Dec 74:1303:10978

Dsc, Organizing to Solve Environmental Problems, Roy F. Bessey, CE:Mar 72:66

Oxygen Depletion Model for Cayuga Lake, J. Denis Newbold and James A. Liggett, EE1:Feb 74:41: 10346

Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045

Oxygen Utilization in Bacterial-Protozoan Community, Raymond P. Canale and Frank Y. Cheng, EE1:Feb 74:171:10314

Persistence of Virus and Bacteria in Seawater, William D. Won and Harold Ross, EE3:June 73: 205:9781

Philadelphia Pilots--Builds Oxygen Activated Sludge, Carmen F. Guarino, Michael D. Nelson and Allan B. Edwards, EE4:Aug 74:919:10722

Photogrammetry Aids Solution of Environment Problems, Alfred O. Quinn, SU1:July 72:87:9044

Pitfalls in Parameter Estimation for Oxygen Transfer Data, William C. Boyle, Paul M. Berthouex and Thomas C. Rooney, EE2:Apr 74:391:10451

Planning and Control of Combined Sewerage Systems, William R. Giessner, Robert T. Cockburn, Frank H. Moss, Jr. and Mark E. Noonan, EE4:Aug 74:1013:10744

Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173

Plant Performance Using Dissolved Oxygen Control, Joseph F. Roesler, EE5:Oct 74:1069:10841

Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468

Positive Points on Electric Power, George R. Higgins, PP1:Jan 72:65:8666

Power Optimization for Prescribed Thermal Pollution, Amir N. Nahavandi and Michael Pappas, PO3:July 71:631:8254

Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65: 8984

Predicting Reaeration Coefficients for Polluted Estuary, Gary R. Kramer, EE1:Feb 74:77:10351

Preliminary Model of Potomac Estuary Phytoplankton, Robert V. Thomann, Dominic M. Di Toro and Donald J. O'Connor, EE3:June 74: 699:10576

Preservation and Restoration of the Landscape, Herbert S. Conover, ECCD:72:365

The Pressure Sewer: A New Alternative to Gravity Sewers, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, CE:May 74:50

Pressure Sewer Demonstration, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, EE1:Feb 74:25: 10315

Proposals for Gaining Acceptance for Gaining Acceptance for Urban Freeways, Andrew S. Balbiani, Richard J. Naish and Daniel M. Reisner, TE4:Nov 70:585:7672

Proposed Environmental Quality Policy for ASCE, Ralph Stone, CWFE:Mar 71:373

Prospectives in Bioengineering Research for Civil Engineers, George Bugliarello, PP1:Oct 71:83:8461

Protection of E. Coli by Montmorillonite in Seawater, Gabriel Bitton and Ralph Mitchell, TN: EE6:Dec 74:1310:10978

Public Participation in Environmental Design of Flood Control Channels, Phillip F. Dunn, Jr., PP3: July 72:363:9051

Public Service Facilities and the Environment, George E. Tomlinson, PWS:Nov 72:95

Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517

Rapid Coastal Bottom Water Temperature Rises, Paul D. Higley and David O. Cook, EE4:Aug 74:955:10734

Reaeration Experiments with Microorganisms, Thomas Micka, Edward R. Holley and Frank W. Sollo, TN: EE6:Dec 73:971:10186

Recent Concrete Developments in the Corps of Engineers, John W. Morris, ECCD:72:15

Recommendations for Environmental Engineering Education, Wesley O. Pipes, EE2:Apr 74:243:10459

Regional Application of ASCE Manual No. 50, George T. Treadwell and Robert V. Kycek, WW1:Feb 71:123:7883

Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214

Removal of Lignin from Water by Precipitate Flotation, Mu-Hao Wang, Marvin L. Granstrom, Thomas E. Wilson and Lawrence K. Wang, EE3:June 74:629:10574

Removal of Organic Matter by Activated Carbon Columns, Foppe B. DeWalle and Edward S.K. Chian, EE5:Oct 74:1089:10867

Research Needs in Evironmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, Kay H. Jones, Chmn., EE6:Dec 73:801:10198

Residential Environment and Adjustment: The Special Case of the Elderly, Kermit K. Schooler, ABS:71:43

Residential-Recreation Development, Alan T. Hill, CE:Dec 71:60

Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543

Response of Completely Mixed Systems to Hydraulic Shock Loads, Thazhethil K. George and Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103

Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607:10048

Review of "A Strategy for a Livable Environment", Bernard B. Berger, Chmn., SA6:Dec 67:171:5689

Role of Behavioral Science in Environmental Design, Sidney Cohn, ABS:71:115

San Francisco Bar Dredge Material Disposal, Richard M. Ecker and John F. Sustar, CE13:72:II-913

Sanitary Landfills: The Latest Thinking, CE:Mar 73:69

Scale-Up of Solid Bowl Centrifuge Performance, P. Aarne Vesilind, EE2:Apr 74:479:10474

Screening Model for Storm Water Control, Paul H. Krishen and David H. Marks, EE4:Aug 74:807:10712

Settlement of Building on Pile Foundation in Sand, Robert M. Koerner and Antal Partos, GT3:Mar 74:265:10405

Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Sewage Treatment System Odors and Air Pollutants, Ralph Stone, SA4:Aug 70:905:7456

Sewer Line Design Based on Critical Shear Stress, Kuan M. Yao, EE2:Apr 74:507:10480

Simple Method for Predicting Dispersion in Streams, Raul S. McQuivey and Thomas N. Keefer, EE4:Aug 74:997:10708

Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4:Aug 73:479:9943

Simulation of Water Quality in Tarawera River, J. Christopher Rutherford and Michael J. O'Sullivan, EE2:Apr 74:369:10461

Site Evaluation and Design of Seepage Fields, Kent A. Healy and Rein Laak, EE5:Oct 74:1133:10882

Social and Environmental Factors in Design, Kneeland A. Godfrey, Jr., CE:Sept 70:48

Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., GT3:Mar 74:247:10410

Some Challenge Posed by Traditional Institutions and Practices, Gene E. Willeke, UWRM:71:61

Some Historical Statistics Related to Future Standards, Paul M. Berthouex, EE2:Apr 74:423:10468

Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739

Static Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE3:June 74:529:10572

Statistical Evaluation of Reaeration Prediction Equations, Linfield C. Brown, EE5:Oct 74:1051:10849

St. Louis Powerplant Burns City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30

Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209

Stochastic Analysis of Orthokinetic Flocculation, Perry W. Cockerham and David M. Himmelblau, EE2:Apr 74:279:10446

Stochastic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE3:June 74:613:10578

Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436

Summary of Session I -- Recent Developments in Design and Construction of Concrete Dams, Charles F. Corns, ECCD:72:25

Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3:June 73:283:9797

Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, Kay H. Jones, Chmn., EE4:Aug 73:461:9936

Systems Analysis and Solid Waste Planning, Robert M. Clark and James I. Gillean, EE1:Feb 74:7:10316

Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476

Technical Movie of Papago Freeway, John Girand, TE4:Nov 71:619:8506

Temperature Effects on Microbial Growth in CSTR's, Richard E. Muck and C. P. Leslie Grady, Jr., EE5:Oct 74:1147:10848

Territorial Behavior and Preservation in Relation to Environmental Quality, Eugene P. Odum, ABS:71:53

Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73:17:9540

Thermal Power Plant Environmental Studies, M. J. Doyle, Jr. and Ramon F. Cayot, CE13:72:III-2075

Tocks Island Lake Project, Gerald T. McCarthy, EE4:Aug 74:803:10718

Tracer Dispersion of High Rate Settling Tanks, Hassan M. El-Baroudi and David R. Fuller, EE3:June 73:347:9820

Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947

The Trans-Alaska Pipeline Story, E. L. Patton, TE1:Feb 73:139:9573

Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, PO2:Nov 73:349:10150

Transportation in Regional Plan for 1970's, W. John Hossack and J. Richard Hocking, TE4:Nov 70:633:7648

Transportation Model Applied to Landfill Design, Robert B. Conrad and E. Kenneth Hoffman, EE3:June 74:549:10575

Transthetics, Harold P. Hulett, PO1:June 72:103:8989

Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941

Trends in Environmental Engineering Education, Robert M. Sykes, CEE:Feb 74:2-138

Trends in Offshore Airports, Richard D. Harza, TE4:Nov 72:985:9343

Tunnel Vision or Ecological View, Virginia M. Hines, IR3:Sept 71:397:8368

The Urban and Environmental Engineering Program at the University of North Carolina at Charlotte, Jack B. Evett, CEE:Feb 74:1-90

Urban Riverside Environmental Analysis, J. Robert Moore, UP1:Apr 71:105:8066

Use of Sociology in Design Practice, Robert Gutman, ABS:71:109

Virus Removal and Inactivation by Physical-Chemical Waste Treatment, Mark D. Sobsey, Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3:June 73:245:9778

Virus Removal by Diatomaceous Earth Filtration, Malay Chaudhuri, Parviz Amirhor and Richard S. Engelbrecht, EE4:Aug 74:937:10732

Volume of Storm Water Retention Basins, Chester J. Ordon, EE5:Oct 74:1165:10889

Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72:333:9259

Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Waste Generation Models for Solid Waste Collection, Donald Grossman, James F. Hudson and David H. Marks, EE6:Dec 74:1219:11022

Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044

Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667

Water Quality and Effluent Standards of Hawaii, Gordon L. Dugan, Reginald H.F. Young and L. Stephen Lau, HY9:Sept 74:1245:10824

Water Quality and Environmental Quality, Thomas L. Kimball, WQEF:Mar 70:51

Water Quality Models Using the Box-Jenkins Method, Peter M. Huck and Grahame J. Farquhar, EE3:June 74:733:10629

Water Resources Education in Civil Engineering, Vincent T. Ricca and Robert C. Stiefel, CEE:Feb 74:1-96

The Water Studies Program at Stanford University, Perry L. McCarty, CEE:Feb 74:1-193

A Word With the Executive Director About....The Civil Engineer and the Conservationist, William H. Wisely, CE:Feb 70:37

WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121

Environmental Quality

Energy: A 40 Watt Outlook, Virginia Fairweather, CE:Dec 74:45

Environmental Surveys

Accessibility and Environmental Quality, V. Setty Pendakur and Gerald R. Brown, UP1:Apr 69:43:6518

Bad Creek Pumped Storage Project, James G. Hester and Robert F. Edmonds, EPCE:Aug 74:241

Ecological Impacts of Freeway Construction, Norbert Pointner, UT73:May 73:215

Effects of Urbanization on Water Quality, Robert P. Shubinski and Gerald F. Tierney, UT73:May 73:179

The Environmental Capacity of Roadway Networks, Robert J. Maxman and Carl P. Sharpe, UT73:May 73:237

Environmental Concerns and the Controversial Project, Elmer B. Isaak, UT73:May 73:299

Needed: A National Land Use Policy, Daniel A. Dreyfus, CE:May 72:52

The Numbers Game, Arnold H. Vollmer, UT73:May 73:77

Selected Approaches to Environmental Impact Evaluation of Regional Alternatives, Salvatore J. Bellomo and Sally D. Liff, UT73:May 73:273

Some Ecological Criteria for the Preparation and Review of Environmental Impact Statements, Conrad A. Istock, UT73:May 73:163

Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949

Environmental Tests

Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72:519:8961

Environments

Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566

Book Review: The Surveillant Science: Remote Sensing Of The Environment, Kam W. Wong, CE:Nov 73:28

Disposal Well Problems in Chicago and Bakersfield Areas, Ralph G. Berk, SA5:Oct 71:675:8405

The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065

Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829

Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137

Introduction to Tall Buildings Proceedings, Lynn S. Beedle, TB:73:C-1

Logical Approaches to Power Supply and Environment, Riley D. Woodson, PO2:Oct 72:181:9257

Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096

Pedestrian Mall: Purpose, Form, Design, Success, Crawford C. Westbrook, BP73:Dec 73:74

Planning the Pedestrian Environment, Herbert S. Levinson, BP73:Dec 73:37

President's Inaugural Address: ASCE, an Action Profile, Charles W. Yoder, CE:Jan 74:66

Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165

Public Health Factors in Reactor Site Selection, J. G. Terrill, C. L. Weaver, E. D. Harward and J. M. Smith, SA3:June 69:545:6620

Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60

Some Environmental Effects of Drainage in Florida, William V. Storch and Robert L. Taylor, IR1:Mar 69:139:6460

Environment Simulation

Computer Model for Highway Noise Prediction, Kenneth E. Nelson and Joseph L. Schofer, TE2:May 74:325:10517

Enzyme Inhibitors

Temperature-Toxicity Model for Oil Refinery Waste, James H. Reynolds, E. Joe Middlebrooks and Donald B. Porcella, EE3:June 74:557:10580

Enzymes

Clarification of Book-Mill Effluent by Enzyme-Alum, Yeun C. Wu, EE3:June 74:541:10573

Ephemeral Streams

Evaporation from an Ephemeral Streambed, Michael L. Sorey and William G. Matlock, HY1:Jan 69:423:6368

Management of Ephemeral Stream Channels, Herbert B. Osborn and Kenneth G. Renard, IR3:Sept 73:207:10005

Epicenters

Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327

Epidemiology

Engineering Considerations in Disinfection, Robert J. Baker, NSCD:71:683

Estuary Water Quality and Salmonella, Francis T. Brezenski, NSCD:71:481

Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590

An Integrated Approach to the Problem of Viruses in Water, Gerald Berg, NSCD:71:339

Viral Pollution and Depuration of Shellfish, Oscar C. Liu, NSCD:71:397

Epoxy Coatings

Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43

Epoxy Injections Repair Historic Prestress Concrete Bridge, Henry G. Garfield, CE:Mar 71:39

Epoxy Compounds

Repairs Delaminated Bridge Decks, Carl F. Crumpton, Bruce F. McCollom and F. Wayne Stratton, CE:Nov 74:55

Strain Rate Effects in Particulate-Filled Epoxy, Larry W. Oline and Russell Johnson, EM4:Aug 71:1159:8314

Yield and Failure of Glass-Epoxy Composites, Ori Ishai, Arlo E. Moehlenpah and Aaron Preis, EM5:Oct 70:739:7616

Epoxy Mortar

Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180

Epoxy Resins

Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180

Behavior of Wood-Concrete Composite Beams, George Pincus, ST10:Oct 70:2009:7592

Bridge Deck Protection and Resurfacing, Roland A. Pettitt, ST4:Apr 70:791:7217

Delayed Yielding of Three-Phase Epoxy Composites, Leslie J. Cohen and Ori Ishai, EM6:Dec 70:867:7732

Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271

Newport Bridge Superstructure, Alfred Hedefine and Louis G. Silano, ST11:Nov 71:2653:8533

Plastic Liners for CANDU Containment Structures, E. C. Smith, ST10:Oct 71:2583:8435

Prestressed Precast Concrete Railroad Bridges, Robert M. Barton, ST12:Dec 68:2885:6302

Repair of Earthquake Damaged Underground Reservoir, Daniel J. Smith, Jr., CO3:Sept 74:449:10825

Spillway Stilling Basin Repair Using Bonded Concrete and Epoxy Mortar, James R. Graham, OIDS:72:185

Strengthening Rock by Injection of Chemical Grout, Herbert B. Erickson, SM1:Jan 68:159:5744

Syntactic Foams for Deep Sea Engineering Applications, Israel Resnick and Aleksander Macander, CO1:June 70:45:7367

Technique for Study of Granular Materials, Stephen J. Windisch and Michel Soulie, SM4:July 70:1113:7389

Equations

Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6:Dec 72:1547:9435

Equations of Motion

Stability and Boundedness Via Liapunov's Direct Method, Siegfried M. Holzer, EM5:Oct 72:1273:9280

Equilibrium

An Alternative Interpretation of the Vaiont Slide, Kwan Y. Lo, C. F. Lee and P. Gelinas, RM13:72:595

Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367

Lagrangian Formulation of Statics of Shells, J. P. Shrivastava and Peter G. Glockner, EM5:Oct 70:547:7584

Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232

Northeast Corridor Transportation Project: Structure and Operations of Model System, Paul W. Shuldiner, TE4:Nov 70:445:7651

Progressive Failure of Excavated Rock Slopes, Nicholas Barton, RM13:72:139

Equilibrium Methods

Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266

Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321

Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823:9095

Thick-Shell Stress Resultants, Frank G. Bercha and Peter G. Glockner, TN: EM3:June 72:757:8931

Equipment

Maintenance and Repairs of Ancillary Equipment, Dale H. Doble, IMROD:Sept 73:451

Weed Control in Arid Southwest, James W. Kirby and A. Darrell Summers, IR4:Dec 71:571:8570

Erection

Steel Construction, State-of-Art Report 5A, K. D. Cunningham, TB:73:Ia-4-753

Ergodic Processes

Dynamic Response of Airplanes in Ground Operation, Te-ming Hsueh and Joseph Penzien, TE3:Aug 74:743:10755

Erosion

Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406

Beach Changes and Wave Conditions, New Brunswick, S. Brian McCann and Edward A. Bryant, CE13:72:II-1293

Beaches Produced by Waves of Low Phase Difference, Patrick H. Kemp and David Plinston, HY5:Sept 68:1183:6100

Beach Nourishment at Virginia Beach, Virginia, James W. Bunch, 12CEC:71:967

Character and Stability of a Natural Tidal Inlet, Curtis Mason and Robert M. Sorensen, CE13:72:II-781

Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305

Comparison of Model and Beach Scour Patterns, John B. Herbich, 12CEC:71:1281

Cultural Influences on Irrigation Drainage Water, J. R. Busch, D. W. Fitzsimmons, G. C. Lewis, D. V. Naylor and R. D. Carlson, IRS:Sept 72:45

Decrease in Scour Rate of Fresh Deposited Muds, Iaakov Karcz and Gonapathy Shanmugam, TN: HY11:Nov 74:1735:10923

Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45

Diffusion of Sediment in Developing Flow, Robert P. Apmann and Ralph R. Rumer, Jr., HY1:Jan 70:109:7018

Dune Erosion During Storm Conditions, T. Edelman, CE13:72:II-1305

The Effect of Groynes on Eroded Beaches, W. A. Price and K. W. Tomlinson, 12CEC:71:1053

Effect of Unit Weight and Slope on Erosion, Richard L. Foster and L. Glen Martin, IR4:Dec 69:551:6984

Effects of Nonuniform Wave Energy in the Littoral Zone, Victor Goldsmith and Joseph M. Colonell, 12CEC:71:767

Environmental Protection Measures at Martis Creek Lake, California, Joseph C. Sciandrone, CE:Mar 74:80

Erodibility of Channels With Cohesive Boundary, Emmanuel Partheniades and Robert E. Paaswell, HY3:Mar 70:755:7156

Erosion Control in Relation to Watershed Management, William R. Moore and C. Edwin Smith, IR3:Sept 68:321:6126

Erosion of Cohesive Sediments, Task Commitee on Erosion of Cohesive MaterialH, Frank D. Masch, HY4:July 68:1017:6044

Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198

Establishment of a Coastal Setback Line in Florida, James A. Purpura, CE13:72:II-1599

Experiences with Bed Sills in Stream Stabilization, Robert P. Apmann and Paul H. Blinco, WW3:Aug 69:319:6724

Flow Through Rockfill Dam, Horace A. Johnson, SM2:Feb 71:329:7914

Forms of Erosion and Accretion on Cape Cod Beaches, Victor Goldsmith, Joseph M. Colonell and Peter N. Turbide, CE13:72:II-1277
Hawaiian Beaches, Franciscus Gerritsen, CE13:72:II-1257
The History of the Dutch Coast in the Last Century, W. T. Bakker and D. Sj. Joustra, 12CEC:71:709
Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, HY11:Nov 71:1835:8523
Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, IAWM:72:165
The Hydrology and Stability of Cutover Slopes, Donald H. Gray and R. Peter Brenner, IAWM:72:295
Impact on Fish and Wildlife from Land-Use Practice, John C. Peters, IAWM:72:387
Interagency Approach to Watershed Problems Of Eel River, Eugene F. Serr, IR1:Mar 71:181:7983
Jamaica Bay Hurricane Barrier, Frank L. Panuzio, 12CEC:71:2069
Land Capability Classes As Hydrologic Response Units in Watersheds, Charles B. England, IAWM:72:53
La Protection des Plages du Littoral du Lac Saint-Jean, Richard Bolvin and Yvon Cousineau, CE13:72:II-1485
Mass-Wasting Processes in Watershed Management, Raymond M. Rice and J. S. Krammes, IAWM:72:231
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9:Sept 71:1367:8373
Model Tests and Studies For Port Rashid, Dubai, Eric Loewy, 12CEC:71:1137
Motion of Single Particles in Alluvial Channels, Neil S. Grigg, HY12:Dec 70:2501:7770
Movable-Bed Model Studies of Perched Beach Concept, C. E. Chatham, Jr., CE13:72:II-1197
New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
An Offshore Beach Nourishment Scheme, Robert A. Dalrymple, 12CEC:71:955
On the Formation of Spiral Beaches, Paul H. LeBlond, CE13:72:II-1331
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
Physico-Chemical Factors in Erosion of Cohesive Soils, Arunachalan Sargunam, Patrick Reley, Kandiah Arulanandan and Ray B. Krone, TN: HY3:Mar 73:555:9609
Predicting Sediment Yield in Western United States, Elliott M. Flaxman, HY12:Dec 72:2073:9432
Properties of Longshore Bars in the Great Lakes, James H. Saylor and Edward B. Hands, 12CEC:71:839
Rational Model Describing Slope Erosion, Dale L. Rowlison and Glen L. Martin, IR1:Mar 71:39:7981
Recent History of Erosion at Carolina Beach, N. C., Limberios Vallianos, 12CEC:71:1223
Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1
Revetment Construction by Fabriform Process, Bruce A. Lamberton, CO1:July 69:49:6677
River-Coast Interaction: Laboratory Simulation, Omar H. Shemdin, WW4:Nov 70:755:7658
River Erosion Due to Channel Relocation, Lawrence W. Yearke, CE:Aug 71:39
Sedimentation Engineering, Chapter IV: Sediment Sources and Sediment Yields, Task Committee on Preparation of Manual on Sedimentation, Vito A. Vanoni, Chmn., HY6:June 70:1283:7337
Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY5:May 70:1157:7269
Sediment Distribution and Its Relations to Circulation Patterns in Bolinas Bay, California, P. Wilde and T. Yancey, 12CEC:71:1397
Sediment-Pickup Function, Albert R. LeFeuvre, Hilmi D. Altinbilek and Marion R. Carstens, HY10:Oct 70:2051:7636
Sediment Pollution in Coastal Waters, Jacobus van de Kreeke, 12CEC:71:1803
Sediment Yeilds from Central Colorado Snow Zone, Charles F. Leaf, HY1:Jan 70:87:7006
Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12:Dec 72:2087:9426
Seepage Effect on Channel Bank Stability, Philip H. Burgi and Susumu Karaki, IR1:Mar 71:59:7968
Seepage Force on Interfacial Bed Particles, C. Samuel Martin and Mustafa M. Aral, HY7:July 71:1081:8239
Self-Stabilizing Tendencies of Alluvial Channels, Johannes Gessler, WW2:May 70:235:7263
Sill-Controlled Flow Transitions and Extent of Erosion, Walter Rand, HY4:Apr 70:927:7212
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Stripmining and Watershed Management, W. David Striffler, IRS:Sept 72:79
Study of Durban Harbor Silting and Beach Erosion, Jan Malan Jordaan, Jr., 12CEC:71:1097
Study of Mudbanks along the Southwest Coast of India, N. S. Moni, 12CEC:71:739
Tests of Scour Protection for Bridge Piers, Chesley J. Posey, HY12:Dec 74:1773:11017
Tidal Inlet Problems Along the New England Coast, Oscar E. Arpin, 12CEC:71:1171
Transport Littoral: Essais et Calculs, J. P. Epetit, CE13:72:II-971
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
Watershed Behavior After Forest Fire in Washington, J. D. Helvey, IR73:Aug 73:403

Erosion Control
Estimation of Rainfall Erosion Index, John K.H. Ateshian, IR3:Sept 74:293:10817
Notes on Trees and Tree Planting, Hans F. Bell, CE: July 73:77
Rational Model Describing Slope Erosion, Dale L. Rowlison and Glen L. Martin, IR1:Mar 71:39:7981
Seepage Through Soil-Cement Facings, Glenn DeGroot, PES:72:I-751

Error Analysis
Error Analysis For Rectangular Finite Elements, Chiyyarath V. Girijavallabhan and Ramakrishna Narayanaswami, TN: ST1:Jan 72:413:8619
Interpretation of Finite Element Procedure As Stress Error Minimization Procedure, Leonard R. Herrmann, TN: EM5:Oct 72:1330:9228

Error Functions
Hydrographic Surveys Offshore—Error Sources, Ralph H. Cross, III, SU2:Nov 74:83:10908

Errors
Analysis and Prediction of Photogrammetric Residual Errors, Kunwar K. Rampal, SU1:May 74:33:10515
Data Error Effects in Unit Hydrograph Derivation, Eric M. Laurenson and Terence O'Donnell, HY6:Nov 69:1899:6887
Dimensional Analysis - Spurious Correlation, Mehmet Selim Yalin and J. William Kamphuis, 12CEC:71:625
Errors in Step Wise Solutions to Bridge Vibrations, David R. Schelling, ST10:Oct 70:2045:7600
Evaluation of Accuracy of Precise Leveling, M. Geisler and Haim B. Papo, SU2:Oct 67:103:5531
Finite-Difference Convection Errors, David A. Bella and William J. Grenney, SA6:Dec 70:1361:7744
Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034
Sensitivity Analysis of Wind Generated Wave Predictions, Charles D. D. Howard, WW2:May 71:365:8153

Structural and Terrain Movements, John A. Dearinger, SU2:Nov 74:123:10896
Systematic Errors in High Latitude Astronavigation, Gerald W. Johnson, TN: SU2:Nov 74:183:10905

Escalation Clauses
Multi-year Construction Contracts, Donald A. Patrick, CE:Jan 71:65

Escalators
Escalators in Rapid Transit Stations, Robert S. O'Neill, TE1:Feb 74:1:10333

Escherichia Coli
Persistence of Virus and Bacteria in Seawater, William D. Won and Harold Ross, EE3:June 73:205:9781

Esthetic Properties
Long-Span Bridge: Utility, Grace at Low Cost, Harry M. Montgomery and Roger D. Troxell, CE:May 72:73

Esthetics
Aesthetic Factors in Planning and Design of Libby Dam, Sydney Steinborn, PO1:Jan 70:39:6999
Aesthetics of Tall Buildings, William Henderson, TB:73:Ia-1-256
Aesthetics -- Part of Civil Engineering, Frederick M. Law, PP2:Apr 72:275:8850
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
Basic Contemporary Urban Problems, Felipe U. Derteano, UP2:Oct 70:133:7608
Bridge Engineer Looks at Esthetics of Structures, Reece H. Wengenroth, ST4:Apr 71:1227:8074
California County Considers Esthetics, Victor Sauer, CE:Nov 73:70
The City Viewpoint on Environmental Issues, Milton Pikarsky, UT73:May 73:1
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
The Engineer and Pollution Control - Some Objections to the Simplistic Approach, Samuel C. Florman, PP3:July 72:383:9043
Engineering Education and the Origins of Modern Structures, David P. Billington, CE:Jan 69:52
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
Environmental Considerations in Design of Transmission Lines, Harry Brenman and Dwight A. Covington, PO3:June 70:369:7350
Environmental Studies for Rocky Mountain Highway, Austin B. Milhollin, UP1:Mar 74:17:10387
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
Esthetics in Highway Design, Donald Van Riper, CE:Apr 72:47
Esthetics in Structural Design, David P. Billington, CE:Oct 73:36
Esthetics in Water Towers, John P. Klus, CE:Sept 73:84
Ethics and Mankind, Harry J. Ginsberg, CE:Oct 70:92
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959
Good Esthetics a "Happy Accident?", Ignacio Martin, CE:Dec 74:71
The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41
Improved Appearance of Switchyards and Substations, Edwin Rose and Dwight A. Covington, PO1:Mar 69:17:6455
Inclusion of Social Values in Facility Location Planning, David Morris, UP1:July 72:17:9023
Introductory Remarks, Richard E. Burnett, ECCD:72:347
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
New Microwave Tower Design Reduces Drag, Demetri Zavitzianos, CE:Mar 71:46
Preservation and Restoration of the Landscape, Herbert S. Conover, ECCD:72:365
San Francisco Freeway Revolt, William H. Lathrop, Jr., TE1:Feb 71:133:7876
Tie-Downs and Inclined Legs Lead to Slender Graceful Overpass, B. P. Dowsley and W. W. Irwin, CE:July 69:64
Transthetics, Harold P. Hulett, PO1:June 72:103:8989
Viaducts—A Case Study, Rowland Richards, Jr. and David G. Elms, EI4:Oct 74:293:10845

Estimated Costs
Predesign Cost-Estimation Function for Buildings, CO4:Dec 74:589:10992

Estimates
Computer Technology in New Line and Relocation Planning, R. A. Stane, TE3:Aug 70:291:7458
Consturction Practices in the U.K., G. G.K. Smith, TB:73:Ia-4-816
Damage Assessment of Household Water Quality, Dennis P. Tihansky, EE4:Aug 74:905:10700
Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46
Estimating Costs of Earthwork via Simulation, Jack H. Willenbrock, CO1:Mar 72:49:8763
New Methods in Construction Systems, R. Richard LeVitt, CO3:Sept 74:211:10788
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183
Planning and Estimating Underground Construction, by Albert D. Parker (Book Review), Joseph C. Kellogg, CE:July 71:22
Probabilistic Approach to Estimating and Cost Control, Antonio J. Vergara and LeRoy T. Boyer, CO4:Dec 74:543:11021
Probilistic Estimating, James E. Spooner, CO1:Mar 74:65:10406
Remote Terminal Cost Estimating, Robert C. Volkman and LeRoy T. Boyer, CO1:Mar 72:1:8756
Reward-Risk Ratio, Marvin Gates and Amerigo Scarpa, CO4:Dec 74:521:10984
Sample Weights in Solid Waste Composition Studies, Albert J. Klee and Dennis Carruth, SA4:Aug 70:945:7469

Estimating
Initial Loss for Flood Estimation and Forecasting, Ian Cordery, HY12:Dec 70:2447:7737
Predesign Cost-Estimation Function for Buildings, CO4:Dec 74:589:10992

Estuaries
Analysis Techniques for Houston Ship Channel, Roy W. Hann, Jr., WW2:May 70:171:7258
Analytical Modeling of Estuarine Circulation, John S. Fisher, John D. Ditmars and Donald R.F. Harleman, CE13:72:III-2297
Boundary Shear Stress in Rivers and Estuaries, Ronald E. Nece and Dungan J. Smith, WW2:May 70:335:7280
Cleanup of San Diego Bay, Roy E. Dodson, CE:Mar 72:62
A Comparison of Fluvial and Coastal Similitude, Bernard LeMehaute, 12CEC:71:1077
Computer Simulation of Unsteady Flows in Waterways, Robert A. Baltzer and Chintu Lai, HY4:July 68:1083:6048
Computer Studies of Estuary Water Quality, Donald O. Hodgins and Michael C. Quick, CE13:72:III-2317

Deformation of Tidal Waves in Shallow Estuaries, Calude Marche and Hans-Werner Partenscky, CE13:72:III-2395

Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538

Deterioration and Restoration of Coastal Wetlands, Sherwood M. Gagliano, Hyuck J. Kwon and Johannes L. van Beek, 12CEC:71:1767

Deterministic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE4:Aug 74:979:10735

Difference Modeling of Stream Pollution, David A. Bella and William E. Dobbins, SA5:Oct 68:995:6192

Dispersion and Flushing of Pollutants in Extuaries, Donald W. Pritchard, HY1:Jan 69:115:6344

Dispersion in Homogeneous Estuary Flow, Edward R. Holley, Donald R.F. Harleman and Hugo B. Fischer, HY8:Aug 70:1691:7488

Effluent Disposal in South San Francisco Bay, John A. Lager and George Tchobanoglous, SA2:Apr 68:213:5891

Elbe Tidal Model with Movable Bed, Hans Vollmers and Egon Giese, CE13:72:III-2447

Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342

Estimating Dispersion Coefficents In Estuaries, David A. Bella and William J. Grenney, TN: HY3:Mar 72:585:8754

Estimation of Estuarine Marsh Productivity, Eugene De Michele, TN: EE3:June 73:397:9764

Estuaries Need Freshwater, Charles R. Chapman, SEA:70:233

Estuarine Oxygen Resources-Photosynthesis and Reaeration, Thomas E. Bailey, SA2:Apr 70:279:7215

Estuarine Water Quality Management, Richard L. Rosenberger and Raymond Walsh, SA05:Oct 68:913:6164

Estuary Inlet Channel Stabilization Study Using A Hydraulic Model, Theodore T. Lee, 12CEC:71:1117

Estuary Water Quality and Salmonella, Francis T. Brezenski, NSCD:71:481

An Evaluation of Mixing in the Tay Estuary, J. R. West and David J.A. Williams, CE13:72:III-2153

Experiences with Tidal Salinity Model Europoort, A. J. van Rees, P. van der Kuur and H. J. Stroband, CE13:72:III-2345

Field and Laboratory Studies: Navigation Channels of the Columbia River Estuary, Morrough P. O'Brien, CE13:72:III-2465

Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72:589

Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679

Hydrography of South Pass, Mississippi River, Lynn D. Wright, WW3:Aug 71:491:8290

Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205

Industrial Sewage in the Weser Estuary, Gunter Luck, CE13:72:III-2137

Influences of Sedimentation on Water Quality: An Inventory of Research Needs, Robert H. Livesey, Chmn., HY8:Aug 71:1203:8325

Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810

Isopachous Mapping of the Lower Patuxent Estuary Sediments by Continuous Seismic Profiling Techniques, Newell T. Stiles and Donald R. Wiesnet, 12CEC:71:669

A Least-Cost Analysis For The Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, CEO-II:70:269

Long Wave Propagation in Idealized Estuary, Donald W. Knight, HY7:July 73:993:9842

Mathematical and Hydraulic Models of Tidal Waves, Jurgen Sundermann and Hans Vollmers, CE13:72:III-2413

A Mathematical Model for Salinity Intrusion, A. Y. Kuo and Ching S. Fang, CE13:72:III-2265

Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866

Mathematical Tidal Study of St. Lawrence River, J. William Kamphuis, HY3:Mar 70:643:7141

Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73:257:9753

Minimum Length of Salt Intrusion in Estuaries, Ben P. Rigter, HY9:Sept 73:1475:10010

Mixing of Columbia River and Ocean Waters in Summer, T. John Conomas and M. Grant Gross, SA5:Oct 68:979:6187

Model for Sediment Transport through an Estuary Cross Section, Herbert H. Stevens, Jr., David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279

New Developments in the Field of Tidal Hydraulics, Joseph M. Caldwell, HY1:Jan 69:1:6339

The Nile Delta Coastal Protection Project, Ismail E. Mobarek, CE13:72:II-1409

Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300

A Numerical Model of Estuarine Pollutant Transport, Hugo B. Fischer, CE13:72:III-2255

Numerical Model of St. Lawrence River Estuary, David Prandle and Norman L. Crookshank, HY4:Apr 74:517:10472

A Numerical Model of the St. Lawrence River, David Prandle, CE13:72:III-2281

Numerical Studies of Unsteady Dispersion in Estuaries, Donald R. F. Harleman, Chok-Hung Lee and Lawrence C. Hall, SA5:Oct 68:897:6160

Optimal Water Quality Management for Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, SA1:Feb 72:195:8715

Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440

Predicting Reaeration Coefficients for Polluted Estuary, Gary R. Kramer, EE1:Feb 74:77:10351

Preliminary Model of Potomac Estuary Phytoplankton, Robert V. Thomann, Dominic M. Di Toro and Donald J. O'Connor, EE3:June 74:699:10576

Preservation of Estuaries by Tidal Inlets, Mason G. Lockwood and Henry P. Carothers, WW4:Nov 67:133:5583

Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297

Reaeration Measurements in an Estuarn, David W. Juliano, SA6:Dec 69:1165:6987

Recirculation in Shallow Bays and Rivers, R. K. Price, Robert A. Dalrymple and Robert G. Dean, 12CEC:71:1813

Regional Water Quality Standards, Ralph Porges, SA3:June 69:423:6596

Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832

Reproduction of Physical Processes in Coastal Areas, Hans-Gerhard Ramming, CE13:72:III-2197

Research for the Coastal Area of the Delta Region of the Netherlands, J. J. Dronkers, 12CEC:71:1783

Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293

Salinity Intrusion Effects in Estuary Shoaling, Donald R.F. Harleman and Arthur T. Ippen, HY1:Jan 69:9:6340

Sediment Balance of Clyde Estuary, George Fleming, HY11:Nov 70:2219:7676

Sediment Budget of the Lower Fraser River, Nick Tywoniuk, CE13:72:II-1105

Sediment Pollution in Coastal Waters, Jacobus van de Kreeke, 12CEC:71:1803

Sediment Transport in Tidal River, Amarendra N. Biswas and Arun K. Chakrabarti, HY11:Nov 74:1677:10964

Shallow Water Wave Characteristics, Winfried Siefert, CE13:72:I-329

A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717

Simulation of Piers in Hydraulic Models, David J. Ball, WW1:Feb 74:23:10313

Stochastic Model for BOD and DO in Estuaries, Stephen W. Custer and Richard G. Krutchkoff, SA5:Oct 69:865:6834
Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296
Stochastic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE3:June 74:613:10578
Suspended Load Calculations in a Tidal Estuary, Brian A. O'Connor, 12CEC:71:1931
Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810
Tidal Flow in Exponentially Varying Estuaries, Wen-Hsiung Li and Michael Edwin Kozlowski, HY11:Nov 74:1649:10967
Tidal Waves in Schematic Estuaries, Hans Vollmers and Jurgen Sundermann, 12CEC:71:2133
Time-Varying Dissolved Oxygen Model, George D. Pence, John M. Jeglic and Robert V. Thomann, SA2:Apr 68:381:5915
Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947
Transverse Dispersion in Oscillatory Channel Flow, Peter R.B. Ward, HY6:June 74:755:10589
Turbulent Diffusion and Entrainment in Two-Layer Flow, T. Carstens, WW1:Feb 70:97:7081
Use of Volcanoes for Determination of Direction of Littoral Drift, Per Moller Bruun and Gisli Viggosson, 12CEC:71:935
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109
Viaducts—A Case Study, Rowland Richards, Jr. and David G. Elms, EI4:Oct 74:293:10845
Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, NSCD:71:223
Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, SA5:Oct 71:601:8423
Viral Pollution and Depuration of Shellfish, Oscar C. Liu, NSCD:71:397
Waste-Induced Oxygen Uptake of an Alaskan Estuary, R. Sage Murphy and Ann P. Miller, SA2:Apr 68:345:5908
Water Quality Considerations In Estuarine Development, Thomas P. Gallagher and John E. Hagan, III, CEO-II:70:229
Wave Conditions and Coastal Structures, W. P.A. Broeders and G. van Loenen, WAVES:Sept 74:543
Wave Investigations in Shallow Water, Winfried Siefert, 12CEC:71:151

Estuarine Environment
Analysis of Inner Plant Passage of Estuarine Biota, Allan D. Beck and Don C. Miller, EPCE:Aug 74:199

Etching
Hydraulics and Thermal Dispersion in an Irregular Estuary, Ralph R. Boericke and Darryl W. Hall, HY1:Jan 74:85:10282

Ethics
ASCE Drafts Professional Civic Involvement Recommendations, CE:June 74:77
Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Can Professionalism Be Taught, Paul C. Hassler, PP1:Sept 70:33:7551
Commentary, Warren Friedman, CEWAU:74:117
Communications -- Introduction, M. D. Morris, CEWAU:74:95
Competitive Bidding on Foreign Work, E. Montford Fucik, PP1:Oct 71:121:8456
Educating Engineers for Professional and Ethical Responsibility (Discussion), William R. Gibbs, CEE:Feb 74:2-305
Educating Engineers for Professional and Ethical Responsibility (Discussion), Dan H. Pletta, CEE:Feb 74:2-305
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
The Engineer and Ethical Advertising, Milton Riback, CEWAU:74:99
Engineering Education and a Professional Ethic, Charles R. Schrader, PP1:Oct 71:147:8460
Engineering For People, Richard R. Harbert, PP3:July 72:387:9058
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Ethics of Negotiating with Prospective Employers, Harold G. Biedermann, PP1:Dec 67:27:5656
The Ethics of Teacher Evaluation, Chester Lee Allen, PP1:Oct 71:153:8465
The Human Ethic, Charles R. Schrader, PP1:July 69:73:6700
Interchange, Ethics, Accreditation, Needs of Practice (Panel Discussions), CEE:Feb 74:2-243
Is Professional Ethics Dead?, CE:Nov 74:71
Moonlighting and Professional Responsibility, George L. Reed, PP1:Sept 70:19:7548
Our Signal is Clear, Charles W. Yoder, CE:Sept 74:64
The Practice of Foundation Engineering in the Commonwealth of Puerto Rico, Efrahim Murati, 4PCSM:71:II391
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
The Public Discussion of the Work of Other Engineers—Ethical or Unethical, Harold H. Wagle, EI1:Jan 74:37:10268
Public Dissent and Professional Responsibility, CE:Sept 73:98
A report from the executive director, Eugene Zwoyer, CE:July 74:74
A View of the Practice of Foundation Engineering in the United States, Elio E. D'Appolonia and John C. Regan, 4PCSM:71:II365
What's New in Water and Sewer Pipe?, CE:Oct 70:46

Ethnic Groups
Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341

Europe
Architectural Criteria of Tall Buildings in Germany and Europe, Fritz Rafeiner, TB:73:Ia-12-1151
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
Bridge To Europe, Laurence E. Rohter, CE:Mar 73:61
Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407
European Versus United States Grouting Practices, P. Rigny, EFFD:Mar 74:37
Europe's Dramatic Cable-Stayed Bridges, Allen Firmage, CE:Sept 74:107
General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67
History and Philosophy of Tall Buildings, Rowland J. Mainstone, TB:73:Ia-1-264
Research Review -- Europe and Africa, State-of-Art Report 2, H. Van Koten, TB:73:Ib-7-375
Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45
Summary of Session III - European Shotcreting Practices, Tor L. Brekke, SUSS:July 73:96
Summary of Session V -- Foreign Practices in Concrete Dam Construction, James E. Bennett, ECCD:72:477
Summary of the Session on International Experiences, Jack C. Jones, IMROD:Sept 73:262
Trends in Design and Construction Practice for Concrete Dams, Jean M. Muller, ECCD:72:397

Eutrophication

Anaerobic Digestion of Sludge Containing Iron Phosphate, Sudershan Malhotra, Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432

Biological Effects of Spoil Disposal in Chesapeake Bay, David A. Flemer, W. L. Dovel, H. T. Pfitzenmeyer and D. E. Ritchie, SA4:Aug 68:683:6081

Deterministic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE4:Aug 74:979:10735

Diversion of Wastewater from Madison Lakes, William C. Sonzogni and G. Fred Lee, EE1:Feb 74:153:10318

Estimating Eutrophic Potential of Pollutants, Dee Mitchell and James C. Buzzell, Jr., SA4:Aug 71:453:8333

Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735

Eutrophication: Causes, Consequences, Correctives (Book Review), William C. Ackerman, CE:Oct 70:20

Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153

Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607:10048

Stochastic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE3:June 74:613:10578

Swimming Again in Lake Washington, Walter E. Jessup, CE:Mar 72:60

Variable Respiration in Aquatic Plant Communities, Archie J. McDonnell and Dennis W. Weeter, SA2:Apr 72:325:8852

Evaluation

The Economic Evaluation of Irrigation in Humid Areas, Milton L. David and Gary M. Mennem, OIDS:72:443

The Ethics of Teacher Evaluation, Chester Lee Allen, PP1:Oct 71:153:8465

Evaluating Transportation Systems, Robert N. Young, William C. Ockert and Charles E. Pixton, TE2:May 71:347:8131

Evaluation of Airfield Performance by Simulation, Austin E. Brant, Jr. and Patrick J. McAward, Jr., TE2:May 74:505:10552

Evaluation of Urban Public Transportation, Kenneth W. Heathington, EI3:July 74:241:10662

Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2:Dec 71:149:8568

Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63

Selection of Chemical Grout for Mattmark Dam, Herbert H. Einstein and Gerold Schnitter, SM6:Nov 70:2007:7684

Session V: Special Topics (Hydraulic Fills, Performance, Evaluation, etc.), Ronald C. Hirschfeld, PISST:71:165

Staging of Improvements to Air Transport Terminals, Angus J. McKenzie, Jack W.E. Huggett and Kenneth W. Ogden, TE4:Nov 74:855:10920

Evaporation

Analysis of Sprinkler Irrigation Losses, Yaron M. Sternberg, IR4:Dec 67:111:5672

Center Pivot Design Capacities in Eastern Colorado, Dale F. Heermann, Hollis H. Shull and Rome H. Mickelson, IR2:June 74:127:10588

Central California Evapotranspiration Frequencies, William O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941

Changing the Consumptive Use on the Gila River Flood Plain, Southeastern Arizona, Ronald L. Hanson, Frank P. Kipple and Richard C. Culler, IRS:Sept 72:309

Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945

Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483

Consumptive Use Derived From Evaporation Pan Data, George H. Hargreaves, IR1:Mar 68:97:5863

Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250

The Dissipation of Excess Heat from Water Systems, Harvey E. Jobson, PO1:May 73:089:9702

Effectiveness of Precipitation in a Mountain Meadow, E. Gordon Kruse and Howard R. Haise, IR73:Aug 73:627

Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118

Evaporation from an Ephemeral Streambed, Michael L. Sorey and William G. Matlock, HY1:Jan 69:423:6368

Evaporation Reduction with Floating Granular Materials, Lloyd E. Myers and Gary W. Frasier, IR4:Dec 70:425:7741

Irrigation Scheduling from Evaporation Reports, Mel A. Hagood, OIDS:72:533

Irrigation Scheduling on the Minidoka Project, Idaho, Jerry F. Buchheim, OIDS:72:539

Long-Chain Alcohol Suppression of Snow Evaporation, James R. Meiman and Charles W. Slaughter, HY6:Nov 67:271:5598

Measured And Predicted Evaporation At Pasaje, Ecuador, M. Riazul Hasan and Peris S. Jones, TN: IR3:Aug 72:511:9160

Model of Natural Draft Cooling Tower Performance, Lawrence D. Winiarski and Bruce A. Tichenor, SA4:Aug 70:927:7461

A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171:9034

Pan Evaporation and Evapotranspiration from Climatic Data, Jerald E. Christiansen, IR2:June 68:243:5988

Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2:June 72:193:8940

Present Day Evaporation Measurement Techniques, G. Earl Harbeck, Jr. and J. Stuart Meyers, HY7:July 70:1381:7388

Research on Sleepers River at Danville, Vermont, Martin L. Johnson, IR1:Mar 70:67:7184

Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415

Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962

Suppression of Evaporation Losses from Snowpacks, James L. Smith and Howard G. Halverson, IAWM:72:5

Use of Atmometers in Estimating Evapotranspiration, John W. Shannon, IR3:Sept 68:309:6120

Water Consumption in the Lower Colorado River Valley, O. J. Loeltz and C. C. McDonald, IR1:Mar 69:65:6457

Evaporation Control

Evaporation Reduction with Floating Granular Materials, Lloyd E. Myers and Gary W. Frasier, IR4:Dec 70:425:7741

Evaporation Reduction with Reflective Covers, Keith R. Cooley and Lloyd E. Myers, IR3:Sept 73:353:9982

Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779

Status of Bureau of Reclamation Efforts in Weather Modification, Evaporation Suppression, and Water Salvage, Patrick A. Hurley, IAWM:72:43

Suppression of Evaporation Losses from Snowpacks, James L. Smith and Howard G. Halverson, IAWM:72:5

Evaporative Cooling

Cooling Tower Applications in Power Cycle Design, Arthur J. Fiehn, PO1:Mar 69:55:6458

Evapotranspiration

Center Pivot Design Capacities in Eastern Colorado, Dale F. Heermann, Hollis H. Shull and Rome H. Mickelson, IR2:June 74:127:10588
Central California Evapotranspiration Frequencies, William O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941
Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
Computer Modelling of a Coniferous Forest Watershed, George B. Shih, Richard H. Hawkins and Melvin D. Chambers, IRS:Sept 72:433
Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483
Consumptive Use of Water and Irrigation Water Requirements, Marvin E. Jensen, Chmn., CUWI:74, 215pp.
Current Design Capacity Procedure Used by the USBR, Albert E. Gibbs, IRS:Sept 72:331
Current Design Capacity Procedure Used by SCS, Harlan G. Collins, IRS:Sept 72:339
Effectiveness of Precipitation in a Mountain Meadow, E. Gordon Kruse and Howard R. Haise, IR73:Aug 73:627
Estimation of Phreatophyte Water Use, William C. Hughes, IRS:Sept 72:191
The Evaluation of Water Evaluation, George H. Hargreaves, IRS:Sept 72:273
Frequency of Potential Evapotranspiration Rates in Great Central Plains, Norman J. Rosenberg, IR2: June 72:203:8946
Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73: 421:10229
Functions to Predict Optimal Irrigation Programs, J. Ian Stewart, Robert M. Hagan and William O. Pruitt, IR2:June 74:179:10626
Irrigation Scheduling Using Mean Evapotranspiration Rates, Delvin D. Brosz, OIDS:72:561
Maximum Potential Evapotranspiration Frequency - East Central U.S., J. L. McGuinness and Leslie H. Parmele, IR2:June 72:207:8943
Measured And Predicted Evaporation At Pasaje, Ecuador, M. Riazul Hasan and Peris S. Jones, TN: IR3:Aug 72:511:9160
Pan Evaporation and Evapotranspiration from Climatic Data, Jerald E. Christiansen, IR2:June 68: 243:5988
Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2: June 72:193:8940
Salt and Water Balance in Coachella Valley, California, Charles A. Bower, James R. Spencer and L. O. Weeks, IR1:Mar 69:55:6437
Scheduling Irrigations Using Climate-Crop-Soil Data, Marvin E. Jensen, David C.N. Robb and C. Eugene Franzoy, IR1:Mar 70:25:7131
Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415
Water-Yield Relations for Nonforage Crops, Lloyd A. Downey, IR1:Mar 72:107:8772

Evolution (Development)

Civil Engineering Graduate Education in Evolution, John D. Haltiwanger, William J. Hall and Nathan M. Newmark, CEE:Feb 74:1-149
Scenario For A Third Computer Revolution In Structural Engineering, Steven J. Fenves, EC5:70: 829

Examination

Bureau of Reclamation Examination Program, Paul K. Bock, IMROD:Sept 73:50
Licensing of Pedicycle Operators, Lawrence C. Wilson, BP73:Dec 73:571

Excavating Equipment

Development and Future of Dredging, Adolph W. Mohr, WW2:May 74:69:10513

Excavation

Analysis of Soil Movement Around a Deep Excavation, Chin-Yung Chang and James M. Duncan, SM5:Sept 70:1655:7512
The Behavior of Foundations During Construction, T. William Lambe, SM1:Jan 68:93:5740
Better Specifications for Underground Work, J. Donovan Jacobs, CE:June 71:47
A Case Study of a Soil Anchor Tie-Back System, Michael L. Larson, Willard R. Willette, Harold C. Hall and John P. Gnaedinger, PES:72:I-1341
Circular Discontinuously Braced Excavation (In Spanish), Andres Perez M., 4PCSM:71:II203
Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138
Design and Observation of a Tied-Back Wall, Gerald W. Clough, Paul R. Weber and Joseph Lamont, Jr., PES:72:I-1367
Development and Future of Dredging, Adolph W. Mohr, WW2:May 74:69:10513
Dewatering Case History in Florida, John H. Schmertmann, CO3:Sept 74:377:10803
Diaphragm Wall Construction Techniques, Kevin L. Nash, CO4:Dec 74:605:11025
Edward Hyatt (Orville) Underground Power Plant, Alfred R. Golze, PO2:Mar 71:419:7950
Effects of Foundation Construction on Nearby Structures, David J. D'Appolonia, 4PCSM:71:I189
Excavations and Deep Foundations, T. D. Dismuke, TB:73:Ia-11-1014
Foundation Failure, Jacob Feld, CE:June 73:89
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
Ground Freezing in Construction, Frederick J. Sanger, SM1:Jan 68:131:5743
An Instrumented Tied-Back Deep Excavation, Thomas K. Liu and John P. Dugan, Jr., PES:72:I-1323
Kimbley Pit Slope Failure, James V. Hamel, 4PCSM: 71:II117
Measured Performance of Braced Excavation, T. William Lambe, L. Anthony Wolfskill and Ing H. Wong, SM3:May 70:817:7307
Nuclear Excavation of an Elat-Dead Sea Waterway, Aviva E. Gileadi and Wilson K. Talley, WW3:Aug 69:329:6730
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
The Performance of a Subway Excavation, T. William Lambe, L. Anthony Wolfskill and Walter E. Jaworski, PES:72:I-1403
Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257
Performance of Bracing for Deep Chicago Excavation, Edwin Paul Swatek, Jr., Sherwin P. Asrow and Arthur M. Seitz, PES:72:I-1303
Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259
Performance of Tied-Back Walls in Clay, Gerald W. Clough and Yuet Tsui, GT12:Dec 74:1259:11028
Performance of Two Slurry Wall Systems in Chicago, James A. Cunningham and Jose I. Fernandez, PES: 72:I-1425
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
Predicted Performance of a Braced Excavation, Hugh Q. Golder, James P. Gould, T. William Lambe, Gregory P. Tschebotarioff and Stanley D. Wilson, SM3:May 70:801:7292
Predicting Performance of Braced Excavations, T. William Lambe, PES:73:III-255
Pressurized-Slurry Shields Bore Submarine Tunnels, Takuya Ohira and Shunta Shiraishi, CE:May 72:55
Prestressed Rock Anchors and Shotcrete for Large Underground Powerhouse, Michel Buro, CE:May 70:60
Project Planning Game for Foundation Excavation, Tung Au and Ernest W. Parti, CO1:July 69:11:6646

Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60
River Diversion for Boundary Dam, Adolf A. Schilling, PO3:June 70:319:7339
Settlements Near Excavations (In Spanish), Jesus Alberro A., 4PCSM:71:II211
Simulation of Excavation Using Finite Elements, Vallampadugai S. Chandrasekaran and George J.W. King, TN: GT9:Sept 74:1086:10774
Sloped Sheeting, Harry Schnabel, Jr., CE:Feb 71:48
Slurry Wall Construction for BART Civic Center Subway Station, J. George Thon and Richard C. Harlan, SM9:Sept 71:1317:8361
Some Construction Aspects of Tarbela Dam, Morgan H. Thompson, CO3:Sept 74:247:10799
Stability of Trenches Filled with Fluids, Kevin L. Nash, CO4:Dec 74:533:11006
Suction Wells Dewater Large Construction Site, Robert G. Lenz, CE:Feb 70:40
Tied-Back Deep Excavations in Los Angeles Area, Perry A. Maljian and James L. Van Beveren, CO3: Sept 74:337:10791
Underground Excavation: Geologic Problems and Exploration Methods, Andrew H. Merritt, EFSE: Aug 74:56

Exchange Reactions
Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, SA1:Feb 72:11:8703

Excitation
Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950
Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, R. P. Kassawara and D. A. Peck, SDNPF:Dec 73:73
Dynamics of Correlated Random Pulse Trains, Shih-Chi Liu, EM4:Aug 70:455:7490
Excitation of Waves Inside a Bottomless Harbor, Noboru Sakuma, Johannes Buhler and Robert L. Wiegel, CE13:72:III-2005
Full Scale Observation of the Behavior of Moored Ships, John T. O'Brien, BMS:71:130
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72: 519:8961
Maximum Dynamic Response and Proof Testing, Jann-Nan Yang and Ewald Heer, TN: EM4:Aug 71:1307:8273
Motion-Reducing Device Under Seimic Excitation, Paul H. Wirsching and James T.P. Yao, TN: EM1: Feb 72:285:8687
A New Kind of Ground Motion, G. Rudolfo Saragoni, TB:73:Ib-6-323
Stability and Boundedness Via Liapunov's Direct Method, Siegfried M. Holzer, EM5:Oct 72:1273: 9280

Exhaust Systems
Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, Sital Darayanani, TB:73:Ia-2-319

Expanding Cements
Developments in Cement Technology, George Verbeck, ECCD:72:33
Special Cements, George Verbeck, RCCD:70:51
Workshop A -- Advances in Concrete Technology, Samuel D. Burks, ECCD:72:153

Expansion
The Development of a Special Instrument for the In Situ Measurement of the Strength and Stiffness of Soils, C. Peter Wroth and John M.O. Hughes, EFSE:Aug 74:295
Expansion of Cavities in Infinite Soil Mass, Aleksandar Sedmak Vesic, SM3:Mar 72:265:8790
Pressurized Tubes Constrained by Rigid Collars, Furman W. Barton and Thomas H. Dawson, TN: EM3:June 73:9765

Expansive Clays
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
Expansive Soils -- the Hidden Disaster, D. Earl Jones, Jr. and Wesley G. Holtz, CE:Aug 73:49
Lime is not a panacea, Edward D. Graf, CE:July 74: 47
Lime Slurry Pressure Injection Tames Expansive Clays, Paul J. Wright, CE:Oct 73:42
Stiffened Mats on Expansive Clay, Robert L. Lytton and Kirby T. Meyer, SM7:July 71:999:8265
Use of Trees as Bench Marks in Expansive Clays, Robert Davis and Richard Tucker, TN: SU1:Sept 73:149:10017

Expansive Soils
Expansive Soils -- the Hidden Disaster, D. Earl Jones, Jr. and Wesley G. Holtz, CE:Aug 73:49
Review of Expansive Soils, Gerald J. Gromko, GT6: June 74:667:10609
Toward a Coherent Natural Hazards Policy, John H. Wiggins, CE:Apr 74:74

Expectation
The Driver and the Road, Donald L. Woods, TE4: Nov 71:609:8513

Expenses
Computer Charges and Engineering Organizations, Daniel Roos, EC5:70:559
Computer Charges and Engineering Organizations, Daniel Roos, ST1:Jan 71:339:7834
Computer Design of CMAS Systems, Daniel W. Smith, SA4:Aug 70:977:7474
Construction Cost and Design Considerations, John W. Leonard, RCCD:70:31
Construction Cost of Expressways, Barbara A. Huvane, TE2:May 71:173:8113
Conveying Concrete to Lower Dam Construction Costs, James L. Cope, ECCD:72:247
Cost-Effective Matching of Task and Computing Device, Ralph E. Miller, Jr. and John McCaslin, EC5:70:543
Costs of Lightweight Concrete and Other Materials in Various Building Types, E. Vernon Konkel, CE: Apr 69:65
Decentralized Solid Waste Collection Facilities, Robert M. Clark and Billy P. Helms, SA5:Oct 70: 1035:7594
Design and Testing of Cone and Hypar Footings, Robert L. Nicholls and Mohammad V. Izadi, SM1: Jan 68:47:5732
Engineering Aspects of Wastewater Contracts, Samuel I. Zack, SA3:June 69:465:6602
Engineering Measurements, Eugene L. Foster, EFSE: Aug 74:23
Interdistrict Apportionment of Flood Control Costs, Richard R. Dague, E. Robert Baumann and Paul E. Morgan, IR4:Dec 68:441:6298
Keynote Address — Our Last Unexplored Frontier — The Space Beneath Our Feet, Lloyd J. Money, EFSE:Aug 74:10
A Least-Cost Analysis For The Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, CEO-II:70:269
Least Cost Sand Design for Iron Removal, Jerry Y. C. Huang and E. Robert Baumann, SA2:Apr 71: 171:8060
Mass Transit - Panacea for Urban Problems, E. L. Tennyson, NA:Mar 71:41
New Design Criteria for USBR Penstocks, Harold G. Arthur and John J. Walker, PO1:Jan 70:129:7034
Optimum Design of Reinforced Concrete Tanks, Robert E. Melchers and George I. N. Rozvany, EM6:Dec 70:1093:7739
PPB System Implications on Future Highway Program, Roy E. Jorgensen, TE2:May 69:373:6566
Preliminary Design of Wastewater Treatment Systems, Robert Smith, SA1:Feb 69:117:6426
Reporter's Notes -- Session VI, John W. Leonard, ECCD:72:515
A Statement of National Highway Transportation Policy, by the Committee on Transportation Policy of the Tranportation Engineering Coordinating Committee, Harold W. Hansen, Chmn., TE3:Aug 69:399:6717

Surveys for South Shore Rapid Transit Construction, Alfred J. Pacelli, SU1:May 71:133:8148
A Systems Analysis Method For Pavement Structures, William Ronald Hudson, B. Frank McCullough and Frank H. Scrivner, EC5:70:95
Time-Capacity Expansion of Waste Treatment Systems, Thomas M. Rachford, Russell F. Scarato and George Tchobanoglous, SA6:Dec 69:1063:6957
Water Quality Standards--Salvation or Curse, James B. Coulter, WQEF:Mar 70:97

Experience

Can Continuing Education Teach Experience?, Arthur B. Gruver, CEE:Feb 74:1-825
Experience in Teaching Engineering Judgment by Case Histories in Foundation Engineering, Ralph B. Peck and Herbert O. Ireland, CEE:Feb 74:1-187
Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
The Making of a Professional Civil Engineer, Gerard Roberto, Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433
Summary of the Session on International Experiences, Jack C. Jones, IMROD:Sept 73:262
Trends in Faculty Qualifications and Objectives, Dan H. Pletta, CEE:Feb 74:2-168

Experimental Data

De Saint-Venant Equations Experimentally Verified, Willem F. Brutsaert, HY9:Sept 71:1387:8378
Experimental Study of Lateral Buckling of Arches, Frank J. Tokarz, ST2:Feb 71:545:7893
Flexural Vibrations of Laminated Plate, Jan D. Achenbach and Tony R. Zerbe, EM3:June 71:619:8181
Model Test and Analysis of Oblique Folded Plate Structure, James N. Siddall, Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043:9772
Ultimate Strength of Concrete Box Girder Bridge, Jack G. Bouwkamp, Alexander C. Scordelis and S. Tanvir Wasti, ST1:Jan 74:31:10293

Experimentation

Consolidation of Clay and Peat with Variable Properties, Trevor J, Poskitt, SM6:June 71:841:8178
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
Discontinuous Composite Wave Absorber Studies, Anthony R. Fallon, CE13:72:III-1903
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF:Aug 72:527
Experimental Results of Joint Tests, Michel Kavyrchine, TB:73:III-21-323
Experimental Study of Frictional Properties of Faults, Fred A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Experimental Study of the Hydraulic Behaviour of Inclined Groyne Systems, Julio Patriarca Barcelo, 12CEC:71:1021
Integrating-Float Measurements in Turbulent Flows, Henry Liu and Charles D. Morris, HY2:Feb 70:565:7101
Mechanical Behavior of Rock Under Cyclic Fatigue, Bezalel C. Haimson and Chin Man Kim, RM13:72:845
Nonuniform Torsion of Steel Beams in Inelastic Range, Charles R. Farwell and Theodore V. Galambos, ST12:Dec 69:2813:6964
Residual Stresses in Rock, J. E. Russel and E. R. Hoskins, RM14:73:1
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509
Some Experiments with Sand-filled Flexible Tubes, Per Roed Jakobsen and Arne Hasle Nielsen, 12CEC:71:1513

Exploration

Guide for Depth of Foundation Exploration, Ronald E. Smith, SM2:Mar 70:377:7120
Slope Stability in Residual Soils, Don U. Deere and F. D. Patton, 4PCSM:71:187

Explosions

Design for Prevention of Progressive Collapse, Ramzi H. Ferahian, CE:Feb 72:66
Design Of Earth Retaining Structures For Dynamic Loads, H. Bolton Seed and Robert V. Whitman, LS:70:103
Excavation Quality Control for the NCMC Expansion, John D. Smart and Ronald L. Friestad, RM13:72:643
Internal Blast, State-of-Art Report 6, Rowland J. Mainstone, TB:73:Ib-8-643
Propagation Of Waves Generated By Underwater Explosion, James Chi-dian Go, CEO-II:70:1149
Simulation of Waves by an Underwater Explosion, Jan Malan Jordaan, Jr., WW3:Aug 69:355:6745
Spherical Waves in Inelastic Materials, Jeremy Isenberg and Anjan K. Bhaumik, EM3:June 71:901:8207

Explosive Excavation

Slope Analysis for Explosive Excavations, Richard H. Gates, RM13:72:243

Explosives

Blasting Mass-Concrete at Grand Coulee Dam, J. R. Granger, CE:Aug 71:28
Development and Potentials of Moire Method of Strain Analysis for Rock Testing, Kuppusamy Thirumalai and R. L. Fischer, RM13:72:727
Dynamic Behavior of Rocks to Spherical Stress Waves, R. P. Swift and M. W. McKay, RM13:72:797
Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60

Exponential Functions

Well Capacity for Continuous Permeability Variation, Raymond J. Krizek, Wallace H. Baker and Arley G. Franklin, IR3:Sept 69:409:6785

Export

Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084

Expositions

Architects and Planners — Introduction, M. D. Morris, CEWAU:74:209
Commentary, Irving Scheinbart, CEWAU:74:221
Expo '74 Rejuvenates Downtown Spokane, Virginia Fairweather, CE:June 74:48
The Louisiana Superdome; World's Most Versatile Building, Mark C. Carrigan, CE:Nov 74:50
New York City Convention and Exhibition Center, Thomas F. Galvin, CEWAU:74:211

Exposure

Effect of Surface Coatings and Exposure on Slip, James H. Lee, Colin O'Connor and John W. Fisher, ST11:Nov 69:2371:6889

Extensometers

Benefits of Tunnel Measurements, Larry H. Heflin, EFSE:Aug 74:366
The Development of a New Borehole Extensometer -- Abstract, Howard G. Spark, RM14:73:756
Performance Instrumentation Installed in Oroville Dam, John E. O'Rourke, GT2:Feb 74:157:10363
Strain and Tilt Observations Near an Active Fault, Charles G. Bufe, RM13:72:685

External Forces

External Blast, State-of-Art Report 7, Nathan M. Newmark, TB:73:Ib-8-661

External Friction

Coefficient of Friction of Natural Rock Surfaces, Bartlett W. Paulding, Jr., SM2:Mar 70:385:7121

Extra High Voltage

Environmental-Geotechnical Considerations in the Routing of EHV Transmission Lines, Alfred E. Caswell, Charles V. Nazare, Richard J. Berger and Joseph F. Torri, EPCE:Aug 74:587

Fabrication

Commentary on Orthotropic-Deck Bridge Specifications by the Task Committee on Orthotropic Plate Bridges of the Committee on Metals of the Structural Division, Charles G. Schilling, Chmn., ST1:Jan 74:109:10273
Criteria for Heat Curving Steel Beams and Girders, Roger L Brockenbrough, ST10:Oct 70:2209:7638
Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380
Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229
How Safe are Your Poles?, Joseph R. Arena, ST7: July 73:1333:9848
Keynote Address at Tall Buildings Conference, Stewart S. Cort, Chairman, Bethlehem Steel Corp., TB:73:C-33
Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477
Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201
Penstock Construction at Grand Coulee Dam, Wayne H. John, CE:Dec 73:52
Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653
Quality Control in Steel Frame Fabrication of Tall Buildings, State-of-Art Report 3, Sansei Miki, Hiroshi Ohba and Toshio Kamei, TB:73:Ib-9-817
Roof Assembled on Ground, Hoisted into Place, Werner Blum and Philip Wesler, CE:Jan 74:44
Steel Construction, State-of-Art Report 5A, K. D. Cunningham, TB:73:Ia-4-753
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767
Structural Steel Designers' Handbook, edited by Frederic S. Merritt (Book Review), Roman Wolchuk, CE:Nov 72:14
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
Surface-Bonded Concrete-Block Panels, Herbert W. Busching, Donald H. Hamilton and James G. Goree, EM2:Apr 74:359:10493

Facilities

Master's Degree in Civil Engineering / Facilities: A Program Offered at the Air Force Institute of Technology School of Engineering for Air Force Civil Engineers, Stewart W. Johnson, CEE:Feb 74: 1-157

Failure

Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649
Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127
Airfield Pavement Systems, Edward L. Murphree, Ronald W. Woodhead and Robert H. Wortman, TE3:Aug 71:389:8283
Analysis For Truss Buckling, Donald L. Dean and Frederick R. Jetter, TN: ST8:Aug 72:1893:9086
Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507
The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551
Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73: 433:9816
Behavior of Concrete under Compressive Loadings, I. Demir Karsan and James O. Jirsa, ST12:Dec 69: 2543:6935
Behavior of Concrete Under Varying Strain Gradients, I. Demir Karsan and James O. Jirsa, ST8:Aug 70:1675:7484
Behavior of Laterally Reinforced Concrete ColumnF, Edwin G. Burdette and Hubert K. Hilsdorf, ST2: Feb 71:587:7905
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
Brittle Failure of Steel Stack, Max Zar, PO1:July 74: 33:10650
Buckling of Soil-Surrounded Tubes, James A. Cheney, EM4:Aug 71:1121:8297
Business Failures in Construction, John B. Shuler, CO2:Sept 67:73:5453
Caisson Construction Problems and Correction in Chicago, Clyde N. Baker, Jr. and Fazlur R. Khan, SM2:Feb 71:417:7934
Case History -- Embankment Failure on Soft Varved Silt, Richard S. Haupt and James P. Olson, PES:72: I-1
Causes of the Failure of the Malpasset Dam, Michel A. Carlier, EFFD:Mar 74:5
Collapse Load of Reinforced Concrete Footings, George G. Meyerhof and Kanakapura S. Subba Rao, ST5:May 74:1001:10531
Collapse of Fargo Grain Elevator, Reymond L. Nordlund and Don U. Deere, SM2:Mar 70:585: 7172
Compression Fatigue of Fiber Reinforced Concrete, Melvin R. Ramey and Patrick J. McCabe, EM2: Apr 74:139:10469
Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749
Damage Evaluation, State-of-Art Report 5B, S. Bubnov, TB:73:Ib-6-247
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
Damage to Structures Due to Floor Shocks, Nelson M. Isada, ST2:Feb 71:561:7897
Deficiencies Noted in Open Literature — Structural, George H. Workman, PITO:74:61
Delayed Yielding of Three-Phase Epoxy Composites, Leslie J. Cohen and Ori Ishai, EM6:Dec 70:867: 7732
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785: 10154
Design of Embankments on Peat, Gerald P. Raymond, GT74:June 74:143
Determination of Concrete Properties in Old Dams, Arthur G. Strassburger, IMROD:Sept 73:477
Development of Failure Around Excavated Slopes, Peter Dunlop and James M. Duncan, SM2:Mar 70: 471:7162
Discrete Element Techniques for Rock Slope Analysis, K. C. Ko, RM13:72:183
Dual Failure Criterion for Plain Concrete, Han-Chin Wu, EM6:Dec 74:1167:10996
Dynamic K_c Testing of Structural Steel, Ronald B. Madison and George R. Irwin, ST7:July 74:1331: 10653
Earthquake Research Needs For Nuclear Power Plants, George W. Housner, PO1:Jan 71:77:7818
Estimating Cracking Behavior of Metallic Structures, W. E. Anderson and Lee A. James, ST4:Apr 70: 773:7213
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
Excelling as a Construction Contractor, Altaf Hussain, CO4:Dec 74:621:11029

Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695:8986
Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Failure Model Calculations, Horea Sandi, TB:73:Ib-10-1038
Failure of a Test Embankment on Sensitive Clay, Oscar Dascal, J. P. Tournier, Francois A. Tavenas and Pierre La Rochelle, PES:72:I-129
The Failure of Laguna Dam, Raul J. Marsal and Wolfang Pohlenz, PES:72:I-489
Failure of Rock Under High Rate Tensile Loads, D. A. Shockey, C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709
Failure of Underwater Slope in San Francisco Bay, James M. Duncan and Albert L. Buchignani, SM9: Sept 73:687:10019
Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7: July 73:1439:9854
Falsework Failures; Can They be Prevented?, Arthur L. Elliott, CE:Oct 73:74
Fatigue Damage of Asphalt under Compound-Loading, James McElvaney and Peter S. Pell, TE3: Aug 74:701:10730
Fatigue Failure of Nonlinear Multistory Seismic Structure, Iyadurai Kasiraj, ST3:Mar 72:655:8792
Fatigue Reliability and Design, James T.P. Yao, ST9: Sept 74:1827:10782
Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127
Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081
Flow Through Rockfill Dam, Horace A. Johnson, SM2:Feb 71:329:7914
Foundation Failure, Jacob Feld, CE:June 73:89
Foundation Failure of the Vankleek Hill Tower Silo, Michael Bozozuk, PES:72:I-885
Fracture and Stress-Strain Relationship of Concrete Under Triaxial Compression, Ranga Palaniswamy and Surendra P. Shah, ST5:May 74:901:10547
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
French Laws and Regulations Regarding Dam Supervision and Inspection, Michel A. Carlier, IMROD:Sept 73:198
General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776
High Fills Resting on Residual Soils (in Spanish), Christian K. De Fries and Edgar Pardo Stolk, 4PCSM:71:II153
Horizontal Movements Related to Subsidence, Kenneth L. Lee and Chih-Kang P. Shen, SM1:Jan 69:139:6336
Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653
Hypothesis for Shear Failure of Brickwork, Bryan Stafford Smith and Clifford Carter, ST4:Apr 71: 1055:8029
An Induced Failure at a Trial Embankment At King's Lynn, Norfolk, England, P. F. Wilkes, PES: 72:I-29
An Induced Failure at a Trial Embankment: Part II Finite Element Computations, C. P. Wroth and B. Simpson, PES:72:I-65
Inelastic Analysis of Suspension Roof Structures, Donald P. Greenberg, ST5:May 70:905:7284
Influence of Progressive Failure On Slope Stabilities, Fredy Romani, Charles William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
Internal Piping and Shear Deformation. Victor Braunig Dam -- San Antonio, Texas, Ralph F. Reuss and John W. Schattenberg, PES:72:I-627
Kazerne Viaduct Collapse, Konstant E. Bruinette, Alan J. Ockleston and Pieter C. Pretorius, ST2:Feb 74:335:10361
Kimbley Pit Slope Failure, James V. Hamel, 4PCSM: 71:II117
Lateral Support of Concrete Block Walls, Harry D. Lovering, CE:May 73:74
Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
Loading Function, State-of-Art Report 2, John Strating, TB:73:II-19-849
Local and Overall Buckling of Cold-Formed Members, John T. DeWolf, Teoman B. Pekoz and George Winter, ST10:Oct 74:2017:10875
Lower Strength Steel Brittle Fracture Assessment, Mohammed H. Magued and D J. Laurie Kennedy, ST5:May 74:983:10551
Lumped Parameter Beams Based on Impedance Methods, Richard D. Ellison, Elio E. D'Appolonia and Gerald R. Thiers, SM4:Apr 71:661:8052
Mechanical Equipment Problems on Old Dams, Fred Engstrom, IMROD:Sept 73:440
Model Law to Improve Dam Safety, Alfred R. Golze, CE:Mar 71:53
Nonlinear Seismic Response Evaluation - Charaima Building, Stephen A. Mahin and Vitelmo V. Bertero, ST6:June 74:1225:10614
Numerical Approximation For Reliability Analysis, Niels C. Lind, TN: ST3:Mar 72:797:8755
Performance of Embankments with Sand Drains on Sensitive Clay, Charles C. Ladd, Joseph J. Rixner and Douglas G. Gifford, PES:72:I-211
Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589
Pore Fluid and Mechanical Behavior of Rock, F. H. Cornet, RM13:72:825
Prestressed Beams in Torsion, Bending, and Shear, Robert L. Henry and Paul Zia, ST5:May 74:933: 10560
Progressive Failure of Excavated Rock Slopes, Nicholas Barton, RM13:72:139
Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654
Reaction to USCOLD's Proposed Law for Dam Safety, Alfred R. Golze, IMROD:Sept 73:282
Reevaluating Spillway Adequacy of Existing Dams, Russell W. Revell, Chmn., HY2:Feb 73:337:9571
Reliability-Based Structural Design, Fred Moses and John D. Stevenson, ST2:Feb 70:221:7072
A Remark on the Probabilistic Analysis of Structural Safety, Alessandro Baratta, TB:73:Ib-10-1039
Repair of 7-Story Bearing Wall, Russell S Fling, CO1:July 69:39:6669
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
Rheologic Aspects of Rock Slope Failure, C. D. Broadbent and K. C. Ko, RM13:72:573
Risk Evaluations for Offshore Structures, Peter W. Marshall, ST12:Dec 69:2907:6981
Rock Stability Analysis at Twin Buttes, Ben L. Seegmiller, RM13:72:511
Rock Structure Design by Failure Probabilities, Robert G. Lundquist and Robert W. Heins, RM14: 73:329
The Rupture Figure for a Double Wall Cofferdam, B. K. Mazurkiewicz, PES:72:I-1271
Safety Analysis for Tall Buildings, State-of-Art Report 5, Fred Moses and Milik Tichy, TB:73:Ib-10-993
Safety Analysis of Slopes, Tien H. Wu and Leland M. Kraft, Jr., SM2:Mar 70:609:7174
Safety Practices, State-of-Art Report 3, Rex K. Rainer and Phillip F. Moon, TB:73:Ia-4-701
Scale and Boundary Effects in Foundation Analysis, James Graham and John Gordon Stuart, SM11:Nov 71:1533:8510
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215: 10128
Seismic Failures of Chilean Tailings Dams, Ricardo Dobry and Leonardo Alvarez, SM6:Nov 67:237: 5582
Selecting Spillway Floods for Existing Structures (Bureau of Reclamation Application), Frederick A. Bertle, IMROD:Sept 73:328

Shape of the Complete Stress-Strain Curve for Rock, John A. Hudson, Edwin T. Brown and Charles Fairhurst, RM13:72:773
The Slide at Brilliant Cut, James V. Hamel, RM13:72:487
Slope Analysis for Explosive Excavations, Richard H. Gates, RM13:72:243
Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511
Some Methods of Monitoring Open Pit Sludge, Bruce A. Kennedy, RM13:72:537
Stability of Discontinuous Rock Masses Under Polyaxial Stress Systems, Peter B. Attewell and John P. Woodman, RM13:72:665
Stability Problems of Wood Truss Bridge, Oscar M. Hahn, ST2:Feb 70:353:7095
Stability Studies of a Footwall Slope in Layered Coal Deposit, C. O. Brawner, D. L. Pentz and J. C. Sharp, RM13:72:329
Strain Energy Build-Up in Fatigue Cycling, Gabrielle Douglas and David J. McDougall, RM14:73:121
Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225
Strength of a Model of Jointed Rock, Edwin T. Brown and David H. Trollope, SM2:Mar 70:685:7185
Strength of Models of Rock with Intermittent Joints, Edwin T. Brown, SM6:Nov 70:1935:7697
Structural Failures, Jack R. Janney, STF:73:11
Structural Failures from the Human Side, Raymond C. Reese, STF:73:103
Structural Failures from the Human Side, Raymond C. Reese, CE:Jan 73:81
Structural Failures: Modes, Causes, Responsibilities, Neal FitzSimons, Chmn., STF:73, 111pp.
Study of Five Embankment Failures on Soft Soils, Georges Pilot, PES:72:I-81
Summary of Session I - Opening, Charles F. Corns, SUSS:July 73:29
Sustained and Cyclic Loading of Concrete Columns, Jostein Hellesland and Roger Green, ST4:Apr 71:1113:8033
Test Embankment on Sensitive Clay, Charles C. Ladd, PES:72:I-101
Test Fills to Failure on the Soft Bangkok Clay, Ove Eide and Soren Holmberg, PES:72:I-159
Tests of a Two-Way Reinforced Concrete Floor Slab, William L. Gamble, Mete A. Sozen and Chester P. Siess, ST6:June 69:1073:6586
Ultimate Biaxial Capacity of Boxed Steel Columns, Peter J. Marshall and John S. Ellis, ST9:Sept 70:1873:7515
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793
Uncertainty, Safety, and Decision in Soil Engineering, Tien H. Wu, GT3:Mar 74:329:10434
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566
When is Foundation Seepage Unsafe?, William A. Clevenger, IMROD:Sept 73:570
Yield and Failure of Glass-Epoxy Composites, Ori Ishai, Arlo E. Moehlenpah and Aaron Preis, EM5:Oct 70:739:7616
Yielding of Fiber Reinforced Tresca Material, John D. Helfinstine and Richard H. Lance, EM4:Aug 72:849:9132
Yielding of Sand in Plane Strain, Sam Frydman, GT5:May 74:491:10540

Failure (Mechanics)
Fracture Analysis of King's Bridge, Melbourne, Ronald B. Madison and George R. Irwin, ST9:Sept 71:2229:8377
Lower Strength Steel Brittle Fracture Assessment, Mohammed H. Magued and D J. Laurie Kennedy, ST5:May 74:983:10551

Farm Management
Introduction to Session II -- Recycling of Land Resources, Oscar S. Bray, PWS:Nov 72:37
Re-Cycling of Land Resources, Neville Borg, PWS:Nov 72:39
Recycling of Land Resources, Ellis L. Armstrong, PWS:Nov 72:57

Farms
Effects of Farming—Urban Drainage on Fresh Water, C. W. Sheffield and William M. Bishop, IR73:Aug 73:691
Farming, Forestry, and Water Quality, Theodore C. Byerly, WQEF:Mar 70:115
Introduction to Session II -- Recycling of Land Resources, Oscar S. Bray, PWS:Nov 72:37
Re-Cycling of Land Resources, Neville Borg, PWS:Nov 72:39
Recycling of Land Resources, Ellis L. Armstrong, PWS:Nov 72:57

Fasteners
Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
Analysis of T-Stub Flange-to-Column Connections, Ben Kato and William McGuire, ST5:May 73:865:9725
Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327
Eccentrically Loaded Bolted Connections, Sherwood F. Crawford and Geoffrey L. Kulak, ST3:Mar 71:765:7956
Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5:May 72:989:8874
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153
Theoretical Lateral Resistance of Nailed Joints, Thomas Lee Wilkinson, ST5:May 71:1381:8121
Welded Connections under Combined Shear and Moment, John L. Dawe and Geoffrey L. Kulak, ST4:Apr 74:727:10457

Fatigue (Materials)
Compression Fatigue of Fiber Reinforced Concrete, Melvin R. Ramey and Patrick J. McCabe, EM2:Apr 74:139:10469
Cumulative Damage Theories and Application, J. E. Stallmeyer and William Hamilton Walker, ST12:Dec 68:2739:6290
Designing to Prevent Fracture in Tall Buildings, State-of-Art Report 6, Stanley T. Rolfe and G. R. Egan, TB:73:II-18-781
Design Limitations for Fatigue, State-of-Art Report 5, Takeo Naka, TB:73:II-18-771
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725
Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818
Fatigue and Fracture, Theme Report, A. A. van Douwen, TB:73:II-18-721
Fatigue Characteristics of Selected Plastics, Harry J. Duffey, Chmn., ST7:July 70:1567:7429
Fatigue Concepts for Concrete Airport Pavement Design, Robert G. Packard, TE3:Aug 74:567:10702
Fatigue Damage Factor in Structural Design, Jhy-Pyng Tang and James T.P. Yao, ST1:Jan 72:125:8647
Fatigue Damage in Seismic Steel Members, Ramachandran Srinivasan and William H. Munse, TB:73:II-18-814
Fatigue Damage of Asphalt under Compound-Loading, James McElvaney and Peter S. Pell, TE3:Aug 74:701:10730
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
Fatigue Life Of Multilane Highway Bridges, Chi C. Tung, TN: EM5:Oct 70:801:7573
Fatigue of Asphalt Paving Mixtures, Carl L. Monismith and John A. Deacon, TE2:May 69:317:6543

Fatigue of Bolted High Strength Structural Steel, Peter C. Birkemoe and Ramachandran Srinivasan, ST3:Mar 71:935:7997
Fatigue of Cover Plated Beams Under Varying Loads, Francis A. Murad and Conrad P. Heins, Jr., ST4:Apr 72:915:8855
Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
Fatigue Reliability and Design, James T.P. Yao, ST9: Sept 74:1827:10782
Fatigue Strength of Hybrid Plate Girders, A. Anthony Toprac and Murugesam Natarajan, ST4: Apr 71:1203:8069
Fatigue Strength of Rolled and Welded Steel, Manfred A. Hirt, Ben T. Yen and John W. Fisher, ST7:July 71:1897:8238
Fatigue Tests of Beams with Rectangular Web Holes, Ronald W. Frost and Robert E. Leffler, SM2:Feb 71:509:7913
High Cycle Fatigue of Connections and Details, State-of-Art Report 4, John W. Fisher and T. R. Gurney, TB:73:II-18-757
High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410
High Strength Bolts Subject to Tension and Prying, Rajasekharan S. Nair, Peter C. Birkemoe and William H. Munse, ST2:Feb 74:351:10373
Influence of Details on Fatigue Behavior of Structures, Harold Mindlin, ST12:Dec 68:2679: 6286
Inspection of Steel Bridges For Fatigue Damage, by the Subcommittee on Inspection of Steel Bridges for Fatigue of the Task Committee on Structural Fatigue of the Structural Division, Ivan M. Viest, Chmn., ST8:Aug 71:2107:8321
List of Limit States, State-of-Art Report 2, J. Brakel, TB:73:III-26-863
Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741
Mechanical Behavior of Rock Under Cyclic Fatigue, Bezalel C. Haimson and Chin Man Kim, RM13:72: 845
Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
Recorded Stress Histories in Railroad Bridges, Freeman P. Drew, ST12:Dec 68:2713:6288
Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595
Specifications and Design Relations, R. S. Fountain, William H. Munse and R. D. Sunbury, ST12:Dec 68:2751:6291
Statistics of Random Loading Relevant to Fatigue, Jann-Nan Yang, EM3:June 74:469:10591
Structural Design of Concrete Pavement by Computer, Cloyd E. Warnes, TE1:Feb 72:1:8698
Structural Metals-Steel, Roger L. Brockenbrough, CE:Aug 69:35
Survey of Research on Structural Connections, Geoffrey L. Kulak, TN: ST12:Dec 74:2537:10982

Fatigue Life

Fatigue Damage in Seismic Structures, Iyadurai Kasiraj and James T. P. Yao, ST8:Aug 69:1673: 6727
Statistical Methods in Structural Fatigue, Paul H. Wirsching and James T. P. Yao, ST6:June 70:1201: 7377

Fatigue Limit

Fatigue Damage in Seismic Structures, Mubadda T. Suidan, TB:73:II-18-808
Fatigue of Cover Plated Beams Under Varying Loads, Francis A. Murad and Conrad P. Heins, Jr., ST4:Apr 72:915:8855

Fatigue Tests

Fatigue Tests of Prestressed Concrete I-Beams, John M. Hanson, Cornie L. Hulsbos and David A. VanHorn, ST11:Nov 70:2443:7705
Procurement and Analysis of Structural Fatigue Data, Harold S. Reemsnyder, ST7:July 69:1533:6693
Statistics of Random Loading Relevant to Fatigue, Jann-Nan Yang, EM3:June 74:469:10591
Strain Energy Build-Up in Fatigue Cycling, Gabrielle Douglas and David J. McDougall, RM14:73:121

Faults (Geology)

Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507
The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
Experimental Study of Frictional Properties of Faults, Fred A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Faulting Across Discontinuities in Anisotropic Rock, Fred A. Donath, RM13:72:753
Potentially Active Faults in Dam Foundations, James L. Sherard, IMROD:Sept 73:768
Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25
Subsurface Video Pulse Radars, David L. Moffatt, EFSE:Aug 74:195
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72: 235:9173

Feasibility

Present State of the Grouting Industry in the United States, Joseph P. Welsh, EFFD:Mar 74:65
The Use of Underground Space to Achieve National Goals, Robert F. Baker, Project Dir., UNSANS:73, 335pp.

Feces

Faecal Bacterial Kinetics in Stabilization Ponds, Gerrit v.R. Marais, EE1:Feb 74:119:10323

Federal Agencies

Dam Inspection Program of the Federal Power Commission, Desloge Brown, IMROD:Sept 73:23
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
Summary of the Session on Federal Inspection Activities, Samuel H. Miles, IMROD:Sept 73:67

Federal Budgets

Bikeways - The Federal Role, Julian Rhinehart, BP73:Dec 73:13
Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080
Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504
Towards New Towns for America-Slowly, George C. Bestor, UP1:Mar 73:47:9591
What's new in sewer-pipe—II, Virginia Fairweather, CE:July 74:79

Federal Government

The Aftermath of Article Three, William H. Wisely, CE:Jan 72:37
Article Three and the Department of Justice, William H. Wisely, CE:Sept 71:47
Bicycles for the Human Environment: New Developments at the U.S. Department of Transportation, Benjamin O. Davis, Jr., BP73:Dec 73:30
Bikeways - The Federal Role, Julian Rhinehart, BP73:Dec 73:13
Corps of Engineers Plans Regional Water Quality Program, William Whipple, Jr., CE:Mar 72:37
Federal Involvement Toward Clean Water for Our Future Environment, Eugene T. Jensen, CWFE: Mar 71:267

Opportunities in Changing Federal System, Larry Rice, UP1:Mar 74:73:10423

Federal Jurisdiction
Bicycles for the Human Environment: New Developments at the U.S. Department of Transportation, Benjamin O. Davis, Jr., BP73:Dec 73:30
"NEPA and the Courts, a Legal Analysis of the National Environmental Policy Act," by Frederick R. Anderson (Book Review), Joseph F. Hennessey and John M. Heckhard, CE:Apr 74:36

Federal-State Cooperation
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074
Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2:May 73:405:9745
Application of PL-566 to Drainage Problem, Paul Tilker, IRS:Sept 72:17
Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409
Balancing Transportation, John E. Hirten, BP73:Dec 73:1
Bicycles for the Human Environment: New Developments at the U.S. Department of Transportation, Benjamin O. Davis, Jr., BP73:Dec 73:30
Bikeways - The Federal Role, Julian Rhinehart, BP73:Dec 73:13
How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal, Joseph L. Grant, PP2:Apr 73:159:9663
Improving Environmental Impact Procedures for Highway Projects, James Cianciosi and Allan G.R. Bullen, UT73:May 73:33
Legal Aspects of Thermal Discharges, Angel J. Martin, HY7:July 74:1059:10682
Management Problems in Flood Plain Areas, Thomas M. Lee, WW3:Aug 72:357:9121
Proposed Water Resources Trust Fund, Morris H. Klegerman, CE:Apr 73:52
State Water Rights Laws, William R. Walker, IR4:Dec 73:449:10217
Statewide Transportation Planning, Frederick J. Wegmann and Everett C. Carter, TE2:May 73:323:9734

Federal-State Water Rights Conflicts
Legal Aspects of Thermal Discharges, Angel J. Martin, HY7:July 74:1059:10682

Fees
The Business and Practice of Foundation Engineering in Venezuela, Gustavo Perez Guerra, 4PCSM:71:II379
Commentary, Allan H. Sample, CEWAU:74:275
Commentary, Keith A. Foucher, CEWAU:74:281
Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849
The Practice of Foundation Engineering in Canada, Victor Milligan, 4PCSM:71:II355
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95

Fellowships
Recommendations for Environmental Engineering Education, Wesley O. Pipes, EE2:Apr 74:243:10459

Females
Are More Women Needed in Civil Engineering, Norman J. Fulco and Eugene E. Dallaire, CE:May 73:54
Statement of Affirmative Action Principles, Benito A. Sinclair, EI3:July 74:183:10688
Women in Civil Engineering Education, Judith S. Liebman, CEE:Feb 74:1-993

Fertilization
Changing Crop Priorities and Drainage Requirements, John C. Nibler and Royal H. Brooks, IRS:Sept 72:25
Chicago's Sludge-Recycling Project Wins 1974 Outstanding Civil Engineering Achievement Award, CE:June 74:43

Fertilizers
Contribution of Minerals to the Ground Water Due to Agriculture in the Upper Santa Ana River Basin of Southern California, Ahmad Amin Hassan, OIDS:72:245
Stream Enrichment from Farm Operations, Neal E. Minshall, Stanley S. Witzel and M. Starr Nichols, SA2:Apr 70:513:7238

Fetch
The One-Dimensional Wave Spectra at Limited Fetch, Hisashi Mitsuyasu, CE13:72:I-289

Fiber Composites
What's New in Concrete?, CE:Jan 74:36
Yielding of Fiber Reinforced Tresca Material, John D. Helfinstine and Richard H. Lance, EM4:Aug 72:849:9132

Fiberglass Reinforced Plastics
Behavior of Fiber Glass Reinforced Concrete Beams, Edward G. Nawy, Gary E. Neuwerth and Charles J. Phillips, ST9:Sept 71:2203:8353
Design of FRP Fluid Storage Vessels, Frank J. Heger, ST11:Nov 70:2465:7698
Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72
GFRP Rod and Rope for Structural Guy Applications, Nixon Halsey, EM4:Aug 74:673:10715
High-Strength End Fittings for FRP Rod and Rope, Richard A. Mitchell, Ruth M. Woolley and Nixon Halsey, EM4:Aug 74:687:10716
World's Largest Log-Periodic Antenna, Yen H. Dong, ST9:Sept 71:2371:8400

Fibers
Compression Fatigue of Fiber Reinforced Concrete, Melvin R. Ramey and Patrick J. McCabe, EM2:Apr 74:139:10469
Current Field Research Program on Shotcrete, Harvey W. Parker, SUSS:July 73:330
Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
Optimal Fiber-Reinforced Plate Corners, Robert E. Melchers, TN: ST7:July 73:1692:9828
Probabilistic Analysis of Fiber-Reinforced Concrete, Antoine E. Naaman, Fred Moavenzadeh and Frederick J. McGarry, EM2:Apr 74:397:10491

Field Data
Analysis of Friction Piles, George A. De Pauw, CE:Oct 74:60
Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939

Field Density
Fly Ash as Structural Fill, Anthony M. DiGioia, Jr. and William L. Nuzzo, PO1:June 72:77:8980

Field Investigations
Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127

Field Tests
Aerator Performance in Natural Streams, Shaw L. Yu, SA5:Oct 70:1099:7601
Artificial Nourishment of Copacabana Beach, Daniel Vera-Cruz, CE13:72:II-1451
Behavior of Bored Piles in Beaumont Clay, Michael W. O'Neill and Lymon C. Reese, SM2:Feb 72:195:8741

Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175

Computer Modelling of Diffraction of Wind Waves, Per Moller Bruun and Leon Emry Borgman, 12CEC:71:473

Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72:2329:9325

Concrete Pipe Culvert Behavior - Part 2, Raymond Eugene Davis and Alfred E. Bacher, ST3:Mar 74:615:10408

Concrete Pipe Culvert Behavior—Part 1, Raymond Eugene Davis, Alfred E. Bacher and John C. Obermuller, ST3:Mar 74:599:10404

Current Field Research Program on Shotcrete, Harvey W. Parker, SUSS:July 73:330

Cylindrical Concrete Hulls Under Hydrostatic Loading, Harvey H. Haynes, Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963

Deflections of Shallow Pier Foundations, Donald C. Slack and John N. Walker, SM4:July 70:1143:7391

A Description of Three Wave Measuring Instruments, E. H. Bowler, WAVES:Sept 74:562

Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785:10154

Design Method for Vertical Anchor Slabs in Sand, N. Krebs Ovesen and Helle Stromann, PES:72:I-1481

Determination of In Situ Stresses in Concrete Dams, Merlin D. Copen and George Brown Wallace, PO2:Mar 71:455:7964

The Development of Undular Bores with Friction, O. Hawaleshka and S. B. Savage, 12CEC:71:461

Dieldrin in Runoff from Treated Watersheds, J. H. Caro, W. M. Edwards and B. L. Glass, IAWM:72:141

The Dynamic Cone Penetration Test, Dinesh Mohan and D. F. Sen Gupta, CE:Feb 70:49

Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179

Effects of Reservoir Impoundment on Water Quality, Frank H. Posey, Jr. and Joseph W. DeWitt, PO1:Jan 70:173:7041

Eight Years of Observations at El Infiernillo Dam, Raul J. Marsal and Luis Ramirez de Arellano, PES:72:I-703

Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589

Evaluation of Stress Cell Performance, Raymond J. Krizek, M. Hassan Farzin, Anwar E.Z. Wissa and R. Torrence Martin, GT12:Dec 74:1275:11030

Expansion of Cylindrical Probes in Cohesive Soils, Francois Baguelin, Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129:9377

Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF:Aug 72:527

Experiments of Wave Reflexion on Impermeable Slopes, Carlos de Campos Moraes, 12CEC:71:509

Failure of a Test Embankment on Sensitive Clay, Oscar Dascal, J. P. Tournier, Francois A. Tavenas and Pierre La Rochelle, PES:72:I-129

Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, George G. Goble, William D. Kovacs and Frank Rausche, PES:73:III-3

A Field Laboratory for Stratified Flow Studies, P. C. Chang and Anching Lin, ISSF:Aug 72:501

Field Measurements at La Angostura Cofferdams, Luis Ramirez De Arellano and Edmundo Moreno Gomez, PES:72:I-779

Field Observation of Tagus River Suspension Bridge, Jose Marecos, Mario Castanheta and J. Teixeira Trigo, ST4:Apr 69:555:6492

Field Test of Debris Fill Over Soft Soil, Henry T. Taylor and Albert L. Buchignani, PES:72:I-395

Field Tests on Two Permeable Groynes, W. A. Price, K. W. Tomlinson and D. H. Willis, CE13:72:II-1401

Flow of Air Through Soils, Geoffrey E. Blight, SM4:Apr 71:607:8026

Guide for the Design of Aluminum Transmission Towers, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457

Horizontal Water Particle Velocity of Finite Amplitude Waves, Yuichi Iwagaki and Tetsuo Sakai, 12CEC:71:309

An Induced Failure at a Trial Embankment At King's Lynn, Norfolk, England, P. F. Wilkes, PES:72:I-29

Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221

In-Place Ocean Soil Strength By Accelerometer, Ronald F. Scott, SM1:Jan 70:199:7013

In-Situ Investigation Using SH-Waves, Marcis Kurzeme, SM2:Feb 71:341:7918

In-Situ Measurement Of Soil Creep, R. A. Lohnes, Alvaro Millan and Richard L. Handy, TN: SM1:Jan 72:143:8618

In Situ Shear Wave Velocity by Cross-Hole Method, Kenneth H. Stokoe, II and Richard D. Woods, SM5:May 72:443:8904

In Situ Strength of Rolled and Hydraulic Fill, Geoffrey E. Blight, SM3:May 70:881:7273

The Kars (Ontario) Embankment Foundation, Gerald P. Raymond, PES:72:I-319

Keynote Address: The Performance of Earth Structures and Foundations, T. William Lambe, 4PCSM:72:III7

Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES:72:I-1105

Least Cost Gauge Buoy for Measurement and Analysis of Ocean Waves, Joseph R. Reynolds, Jr. and John F. Hoffman, WAVES:Sept 74:639

Longshore Transport of Suspended Sediment, John C. Fairchild, CE13:72:II-1069

Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435

Mathematical Modeling of Large Objects in Shallow Water Waves and Uniform Current, Hsiang Wang, CE13:72:III-1783

The Measurement of Offshore Shingle Movement, Maurice J. Crickmore, C. B. Waters and W. A. Price, CE13:72:II-1005

Measurement of Sediment Suspension in Combinations of Waves and Currents, J. Kirkegaard Jensen and Torben Sorensen, CE13:72:II-1097

Methods of Performing and Interpreting In Situ Shear Tests, Michael L. Haverland and Edward J. Slebir, RM13:72:107

Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165:8631

Model Versus Field Data on Thermal Plumes from Power Stations, Lawrence C. Neale and George E. Hecker, ISSF:Aug 72:399

Modern Design of Concrete Pavements, Phil Fordyce and W. A. Yrjanson, TE3:Aug 69:407:6726

New Distance Measuring Instruments, Raymond W. Tomlinson, SU2:Sept 70:149:7521

The Nile Delta Coastal Protection Project, Ismail E. Mobarek, CE13:72:II-1409

Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271

Performance of Embankments with Sand Drains on Sensitive Clay, Charles C. Ladd, Joseph J. Rixner and Douglas G. Gifford, PES:72:I-211

Pore Pressures Under a Bund of Soft Fissured Clay, Za-Chieh Moh, Edward W. Brand and John D. Nelson, PES:72:I-243

Predicted and Meausred Displacements for Tunnels, William R. Judd and William H. Perloff, URC:72:487

Predicting Pavement Performance, Robert E. Boyer and Milton E. Harr, TE2:May 74:431:10533

Prediction Curves for Waves near the Source of an Impulse, Robert L. Miller, 12CEC:71:609

Pressure-Meter Field Testing of Soils, Max L. Calhoon, CE:July 69:71

The Pressure Sewer: A New Alternative to Gravity Sewers, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, CE:May 74:50

Pressure Sewer Demonstration, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, EE1:Feb 74:25:10315

Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, Francis J. Principe, TB:73:Ib-9-807

Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1:8959

Recording Inclinometer for Measuring Soil Movement, Leslie G. Bromwell, Christopher R. Ryan and William E. Toth, 4PCSM:71:II333

Research Review -- North and South America, State-of-Art, Report 3, W. Alan Dalgliesh and R. D. Marshall, TB:73:Ib-7-383

Retaining Wall Experiment to Evaluate Soil Strain Gage, Ernest T. Selig and Jackson Ho, TN: SM6:June 71:953:8162

Rheologic Aspects of Rock Slope Failure, C. D. Broadbent and K. C. Ko, RM13:72:573

Rigid Pavement Stresses Under Aircraft Loading, Michel A. Sargious, Grant A. Ross and Gerald A. LeMoal, TE4:Nov 71:579:8492

Rip-Currents, Edward K. Noda, CE13:72:I-653

Rock Mechanics Studies for Mossyrocky Arch Dam, David E. Kleiner and Richard C. Acker, PO1:Jan 71:11:7795

Search for Economical Construction of Concrete Dams Based on Results of Observation, J. Laginha Serafim, M. Guerreiro and C. Gonzalez Florez, ECCD:72:311

Settlement Analysis of Two Highway Embankments, Hon-Hsieh Su and Rogel W. Prysock, PES:72:I-465

Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273

Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676

Stability of Slurry Trench Cuts in Saturated Clay, George G. Meyerhof, PES:72:I-1451

Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289

Statistical Theory in Materials Sampling, Norman J. Cohen, CO1:Mar 71:95:8005

Stress-Strain Analysis of El Infiernillo Dam, Jesus Alberro A., PES:72:I-837

Structural Behavior of Concrete Arch Culvert, Raymond Eugene Davis, ST12:Dec 69:2665:6942

Study of Five Embankment Failures on Soft Soils, Georges Pilot, PES:72:I-81

Subsurface Investigation for Design and Construction of Buildings: Part II, William F. Swiger, Chmn., SM6:June 72:557:8944

Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV, William F. Swiger, Chmn., SM7:July 72:749:9070

Subsurface Investigation for Design and Construction of Foundations of Buildings: Appendices A and B, William F. Swiger, Chmn., SM8:Aug 72:771:9103

Subsurface Investigations for Design and Construction of Foundations of Buildings: Part I, William F. Swiger, Chmn., SM5:May 72:481:8917

Summary Report on Experimental Evaluation of Simulated Uncased Pipeline Crossings of Railroads and Highways, Everett C. Rodabaugh, Thomas J. Atterbury and G. L. Hinueber, UPC:Apr 71

Suspended Sediment and Longshore Sediment Transport Data Review, Madan M. Das, CE13:72:II-1027

Test Embankment on Sensitive Clay, Charles C. Ladd, PES:72:I-101

Test Fills to Failure on the Soft Bangkok Clay, Ove Eide and Soren Holmberg, PES:72:I-159

Testing Transmission Line Belled Auger Footings, Richard S. Saliman, PES:72:I-1501

Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73:335:9627

Tests on Instrumented Piles, Ogeechee River Site, Aleksandar Sedmak Vesic, SM2:Mar 70:561:7170

Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239

Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285

Tsunamis: Some Laboratory and Field Observations, Fredric Raichlen, 12CEC:71:2103

Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219

Wave Measuring Instrumentation for Field Investigations on Breakers, Alfred Fuhrboter and Fritz Busching, WAVES:Sept 74:649

Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, Joseph M. Colonell, Stewart C. Farrell and Victor Goldsmith, HYB:Aug 73:131

Waves Generated by a Piston-type Wavemaker, Ole Secher Madsen, 12CEC:71:589

Wind Deflection of Tall Concrete Frame Buildings, John F. Wiss and Otto E. Curth, ST7:July 70:1461:7413

Fills

Analysis of Load-Bearing Fills over Soft Subsoils, James K. Mitchell and William S. Gardner, SM11:Nov 71:1549:8522

Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939:10170

Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72:361:8840

Foundation Construction on Compacted Structural Fill in the Washington, D.C. Area, James J. Schnabel, PES:72:I-1019

Guidelines for Compaction Control of Fill, Raymond J. Frost, TN: SM12:Dec 73:1189:10189

High Fills Resting on Residual Soils (in Spanish), Christian K. De Fries and Edgar Pardo Stolk, 4PCSM:71:II153

Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50

KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41

Performance of Embankments Constructed Over Peat, William G. Weber, Jr., SM1:Jan 69:53:6333

Plastic Foam Serves as Lightweight Fill, Thomas A. Coleman, CE:Feb 74:68

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Properties of Compacted Sewage Ash, Donald H. Gray, SM2:Mar 70:439:7149

Session I: Densification During Placement (Rollers), Donald T. Goldberg, PISST:71:1

Session II: Densification after Placement (Preloading), Donald L. York, PISST:71:5

Session III: Densification after Placement (Drains), Steve J. Poulos, PISST:71:43

Films

Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190

Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649

Offshore Mooring Systems, Robert C. H. Russell, BMS:71:254

Filter Materials

Determining Specific Deposit by Backwash Technique, Kou-ying Hsiung, EE2:Apr 74:353:10449

Hydraulically Ventilated Underground Filter, David K. Hills and Ray B. Krone, SA6:Dec 71:851:8596

Filters

Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605

Control of Bacterial Growths in Rapid Sand Filters, John T. O'Connor and Kalyanpur Y. Baliga, SA6:Dec 70:1377:7767

Design of Filter System for Rubble-Mound Structures, Theodore T. Lee, CE13:72:III-1917
Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191
Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72:937:9401
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
Filter Backwashing Tests and Upflow Equalization, A. Adler Hirsch, SA1:Feb 68:129:5813
Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965
Filtration of Treated Sewage Effluent, George Tchobanoglous and Rolf Eliassen, SA2:Apr 70:243:7210
Filtration Through a Trimedia Filter, Alan E. Rimer, SA3:June 68:521:6014
Hydraulically Ventilated Underground Filter, David K. Hills and Ray B. Krone, SA6:Dec 71:851:8596
Need for Envelope Material Above Draintile, Robert W. Saulmon, TN: IR4:Dec 71:661:8560
Plastic Filter Cloth used for Stone Seawalls, James W. Dunham and Robert J. Barrett, CE:Mar 74:70
Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807
Theory of Multilayer Filtration, Shyam S. Mohanka, SA6:Dec 69:1079:6959
Theory of Sand Filtration, Arun K. Deb, SA3:June 69:399:6593
Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, WW1:Feb 74:13:10325

Filter Tests

Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534

Filtration

Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
Control of Bacterial Growths in Rapid Sand Filters, John T. O'Connor and Kalyanpur Y. Baliga, SA6:Dec 70:1377:7767
Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72:937:9401
Determining Specific Deposit by Backwash Technique, Kou-ying Hsiung, EE2:Apr 74:353:10449
Development of Large Scale Drip Irrigation Systems, Benjamin R. Olson, Jr., IR73:Aug 73:311
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
'Filter-Fin' Multiplies Drain Effectiveness, Kent A. Healy and Richard P. Long, CE:Apr 74:50
Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965
Filtration of Chlorella Through Dune-Sand, Yair Folkman and Alberto M. Wachs, SA3:June 70:675:7332
Filtration of Treated Sewage Effluent, George Tchobanoglous and Rolf Eliassen, SA2:Apr 70:243:7210
Filtration Through a Trimedia Filter, Alan E. Rimer, SA3:June 68:521:6014
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
Nonlinear Flow in Porous Media, Nazeer Ahmed and Daniel K. Sunada, HY6:Nov 69:1847:6883
Oxygen Relationships in Intermittent Sand Filtration, Albert B. Pincince and Jack E. McKee, SA6:Dec 68:1093:6295
Prediction of Filter Performance, Kou-ying Hsiung and John L. Cleasby, SA6:Dec 68:1043:6270
Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543:9422
Recent Approaches for Trickling Filter Design, John M. Baker and Quintin B. Graves, SA1:Feb 68:65:5798
Removal of Nematodes by Rapid Sand Filtration, Irvine Wen-Tung Wei, Richard S. Engelbrecht and John H. Austin, SA1:Feb 69:1:6384
Tertiary Treatment by Flocculation and Filtration, DeFro Tossey, Paul J. Fleming and Ronald F. Scott, SA1:Feb 70:75:7106
Theory of Multilayer Filtration, Shyam S. Mohanka, SA6:Dec 69:1079:6959
Theory of Sand Filtration, Arun K. Deb, SA3:June 69:399:6593
Virus Removal by Diatomaceous Earth Filtration, Malay Chaudhuri, Parviz Amirhor and Richard S. Engelbrecht, EE4:Aug 74:937:10732

Finance

Financial Tools for a Geotechnical Consulting Firm, Roy T. Sheehey, 4PCSM:71:II345
State of the Society, Oscar S. Bray, PP4:Oct 72:481:9291

Financial Analysis

Financial Considerations of Effective Project Management Techniques, Marion T. Hvidt, EPMT:73:71
Financial Tools for a Geotechnical Consulting Firm, Roy T. Sheehey, 4PCSM:71:II345
Problems Related to the Construction of Dam Foundation from a Contractors' Viewpoint, John W. Leonard, EFFD:Mar 74:105

Financial Feasibility

Balancing Transportation, John E. Hirten, BP73:Dec 73:1

Financial Management

Financial Tools for a Consulting Firm, Roy T. Sheehey, CE:Jan 72:66

Financing

Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2:May 73:405:9745
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
Bicycle Registration, Glenn R. Walters, BP73:Dec 73:515
Engineering Aspects of Wastewater Contracts, Samuel I. Zack, SA3:June 69:465:6602
Financial Consideration of Practicing Engineers in the Classroom (Discussion), Evan H. Curtis, CEE:Feb 74:2-333
Financing Airport Development, James H. Kerley, Jr., ASC73:Mar 73:141
Financing Municipal Solid Waste Management Systems, Robert M. Clark and Richard O. Toftner, SA4:Aug 70:885:7449
Financing Water Quality Control on a National Basis, Morris H. Klegerman, CWFE:Mar 71:131
Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
Full Compensation and Transportation Corridor Analysis, Joseph R. Passonneau, TE2:May 73:393:9746
General Financial Programs for Regional and Large Wastewater Systems, Edwin A. Wells and Jack H. McMinn, CWFE:Mar 71:147
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Management of Solid Waste-The Utility Concept, Robert M. Clark, Richard O. Toftner and Thomas W. Bendixen, SA1:Feb 71:33:7875
New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
The Other Side of "The Highway Explosion", Carlton C. Robinson, CE:Feb 71:47

Overview of Transportation Legislation, Richard E. Briggs, PP3:July 73:381:9883

Owner-Engineer-Contractor Economic Considerations in Dam Construction, John S. Tamagni, ECCD:72:497

Plan for Financing Urban Mass Transit Systems, Robert T. Howe, TE2:May 70:219:7286

Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928

Project Selection Based on Benefits and Costs, Michael Raymond Toakley and John F. Brotchie, CO2:Sept 72:149:9163

Proposed Water Resources Trust Fund, Morris H. Klegerman, CE:Apr 73:52

Public Policy Issues in Weather Modification, Dean E. Mann, IR3:Sept 69:375:6772

Public Works Capacity Expansion Based on Unit Cost, Carter H. Harrison, Jr., HY11:Nov 74:1707:10955

"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73:59

Regional Application of ASCE Manual No. 50, George T. Treadwell and Robert V. Kycek, WW1:Feb 71:123:7883

Reporter's Notes -- Session VI, John W. Leonard, ECCD:72:515

Role of Government in Public Works, Peter Corradi, PWS:Nov 72:187

Role of Government in Public Works Development, William Harris, Sir, PWS:Nov 72:167

A Statement of National Highway Transportation Policy, by the Committee on Transportation Policy of the Tranportation Engineering Coordinating Committee, Harold W. Hansen, Chmn., TE3:Aug 69:399:6717

Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991

The Tempe Bikeway Study, Elizabeth A. Drake, BP73:Dec 73:297

Trends in Financial Support for Water Pollution Control, David H. Howells, SA3:June 67:1:5271

Views of Port Industry, Roger H. Gilman, WW1:Feb 71:3:7919

Welcoming Remarks at the Tall Buildings Conference, Raymond Bisplinghoff, Deputy Director, NSF, TB:73:C-31

Finite Difference Method

Finite Difference Analyses for Sand Drain Problems, Roy E. Olson, David E. Daniel and Thomas K. Liu, GT74:June 74:85

Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730

Inelastic Spatial Stability of Restrained Beam-Columns, Sriramulu Vinnakota and Pentti Aysto, ST11:Nov 74:2235:10919

The Kars (Ontario) Embankment Foundation, Gerald P. Raymond, PES:72:I-319

Response of Nonlinear Beam to Random Excitation, Henry R. Busby, Jr. and Victor I. Weingarten, EM1:Feb 73:55:9530

Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549

Finite Differences

Analytical and Model Studies of Prestressed Folded Plates, F. Wayne Klaiber, Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818

Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5:Oct 72:1115:9247

Difference Modeling of Stream Pollution, David A. Bella and William E. Dobbins, SA5:Oct 68:995:6192

Ground-Water Hydraulics in Aquifer Management, Eduardo Aguado and Irwin Remson, HY1:Jan 74:103:10287

Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359

Optimal Pumping for Aquifer Dewatering, Eduardo Aguado, Irwin Remson, Mary F. Pikul and Will A. Thomas, HY7:July 74:869:10639

Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72:1087:9260

Transport Equation Stability and Estuary Modeling, Fred G. Haag and Keith W. Bedford, HY12:Dec 71:2051:8610

Finite Difference Theory

Analytical Treatment of Two-Phase Infiltration, Richard L. Brustkern and Hubert J. Morel-Seytoux, HY12:Dec 70:2535:7743

Automated Design Of Statically Indeterminate Frames, Dag Kavlie and Johannes Moe, EC5:70:27

Computer Analysis of Free Surface Well Flow, Willem F. Brutsaert, E. Allen Breitenbach and Daniel K. Sunada, IR3:Sept 71:405:8376

Convergence of Hypar Finite-Difference Solutions, J. G.A. Croll and J. C. Scrivener, ST5:May 69:809:6540

Drainage of Soil Profiles, Royal H. Brooks, Corey Benedict, Gilbert L. Corey and Arthur T. Cores, IR3:Sept 71:455:8389

Edge Effects in Hyperbolic Paraboloid Shells, J. G. A. Croll and J. C. Scrivener, ST3:Mar 69:457:6481

Errors in Step Wise Solutions to Bridge Vibrations, David R. Schelling, ST10:Oct 70:2045:7600

Finite-Difference Convection Errors, David A. Bella and William J. Grenney, SA6:Dec 70:1361:7744

Finite-Difference Simulation of Bore Propagation, C. Samuel Martin and Jerome J. Zovne, HY7:July 71:993:8234

High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519

Inelastic Buckling of Axisymmetric Shells, James C. Hayes and Lawrence H.N. Lee, EM6:Dec 70:1107:7765

Inelastic Finite Deformation of Planar Frames, Raouf A. Ridha and Lawrence H. N. Lee, EM3:June 71:773:8198

Large Deflections of Curved Plates, Henry W.L. Lee and Conrad P. Heins, Jr., ST4:Apr 71:1143:8045

New Rectangular Finite Element for Shear Wall Analysis, Iain A. MacLeod, ST3:Mar 69:399:6464

Nonlinear Flow in Porous Media by Finite Elements, Raymond Edward Volker, HY6:Nov 69:2093:6927

Numerical Solution of Filtration Equations, Arun K. Deb, SA2:Apr 70:195:7199

Postbuckling Behavior of Open Cylindrical Shells, Kuang-Han Chu and Peter Turula, EM6:Dec 70:877:7723

Simply Supported Rectangular Double-Layered Grids, M. J.L. Hussey, A. I. Tarza and W. F.D. Theron, ST3:Mar 71:753:7954

Unconfined Aquifer Seepage by Capillary Flow Theory, Rameshwar D. Verma and Wilfried Brutsaert, HY6:June 70:1331:7363

Unconfined Transient Seepage in Sloping Banks, Chandrakant S. Desai and Walter C. Sherman, Jr., SM2:Feb 71:357:7915

Finite Element Method

Accuracy Equilibrium Slope Stability Analyses, Stephen G. Wright and Fred H. Kulhawy, SM10:Oct 73:783:10097

Analysis and Behaviour of a Concrete Cutoff Wall (In Spanish), Jesus Alberro A., 4PCSM:71:II275

Analysis of a High Gravity Retaining Wall, Fred H. Kulhawy, GT74:June 74:159

Analysis of Circular Footings on Layered Soils, Chandrakant S. Desai and Lymon C. Reese, SM4:July 70:1289:7408

Analysis of Elastic-Plastic Shells of Revolution, Mahmoud Khojasteh-Bakht and Egor P. Popov, EM3:June 70:327:7354

Analysis of Pile-Supported Gravity Lock, Chandrakant S. Desai, Lawrence D. Johnson and Charles M. Hargett, GT9:Sept 74:1009:10789

Analysis of Simply Supported Thick, Layered Plates, Yau-kai Cheung and Subrata Chakrabarti, TN: EM3:June 71:1039:8160

Analysis of Symmetrically Loaded Slab on Elastic Solid, Yang H. Huang, TN: TE2:May 74:537:10511

Analysis of Undrained Behavior of Loads on Clay, Richard M. Simon, John T. Christian and Charles C. Ladd, GT74:June 74:51

Analytical Study of Pressurized Elliptical Cavities, Yoginder P. Chugh and H. Reginald Hardy, Jr., RM14:73:339

Application of New Methods of Structural Analysis for Safety Investigations of Concrete Dams, Eric B. Kollgaard, IMROD:Sept 73:498

Approximate Solution for Unconfined Seepage, Chandrakant S. Desai, IR1:Mar 73:71:9607

Beam Buckling by Finite Element Procedure, C. Philip Johnson and Kenneth M. Will, ST3:Mar 74:669:10432

Buckling Of Orthotropic Hyberbolic Paraboloid Shells, Peter Gergely, TN: ST1:Jan 72:395:8619

Buckling of Shells by Finite Element Method, G. Venkateswara Rao, I. S. Raju and S. K. Radhamohan, TN: EM5:Oct 74:1092:10856

Computation of Combined Refraction-Diffraction, J. C.W. Berkhoff, CE13:72:I-471

Conjugate Gradient and Decomposition - Analogy, Moshe F. Rubinstein, TN: ST8:Aug 71:2165:8275

Correlations of Modulus of Deformation by the Use of a Combined In-Situ Deformation Measurement and Finite-Element Method -- Abstract, Samuel S.M. Chan and Grant L. Anderson, RM14:73:757

Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73:655:9653

Duplication of Dilatancy in Analysis of Jointed Rocks, Richard E. Goodman and Jacques Dubois, SM4:Apr 72:399:8853

Dynamic Characteristics of Soil-Structure Systems, State-of-Art Report 2, H. Bolton Seed, TB:73:Ib-6-177

Dynamic Stability of Plates by Finite Elements, Johnny M. Hutt and Ahmed E. Salam, EM3:June 71:879:8211

Earthquake Response of Arch Dams, Umesh Chandra Tahbildar and Hugh Tottenham, ST11:Nov 70:2321:7681

Effect of Openings on Stresses in Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE2:May 73:255:9721

Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206

Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421

Error Analysis For Rectangular Finite Elements, Chiyyarath V. Girijavallabhan and Ramakrishna Narayanaswami, TN: ST1:Jan 72:413:8619

Evaluation of Stress Cell Performance, Raymond J. Krizek, M. Hassan Farzin, Anwar E.Z. Wissa and R. Torrence Martin, GT12:Dec 74:1275:11030

Finite Element Analysis of Concrete Beams, Chung-Hyun Nam and Charles G. Salmon, ST12:Dec 74:2419:11016

Finite Element Analysis of Flow Toward Artesian Well, Yang H. Huang, TN: HY11:Nov 72:2055:9311

Finite Element Analysis of Inflatable Shells, Chin-Tsang Li and John W. Leonard, EM3:June 73:495:9802

Finite Element Analysis of Metal Deck Shear Diaphragms, Arthur H. Nilson and Albert R. Ammar, ST4:Apr 74:711:10467

Finite Element Analysis of Rock-Salt Pillar Models, Robert Lee Thom[illegible] Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393

Finite Element Analysis Of Skew Sandwich Plates, Gerard R. Monforton and Mofreh G. Michail, TN: EM3:June 72:763:8931

Finite Element Analysis of Thick Shell of Revolution, T. J. Chung and Martin A. Bandy, TN: EM4:Aug 71:1315:8273

Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095

Finite Element Method Accuracy for Wave Propagation Problems, Roger L. Kuhlemeyer and John Lysmer, TN: SM5:May 73:421:9703

Finite Element Method: A Galerkin Approach, Stanley G. Hutton and Donald L. Anderson, EM5:Oct 71:1503:8448

Finite Element Method for Wood Mechanics, Adam Al-Dabbagh, James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784

Finite Element Methods for the Nonlinear and Time-Dependent Analysis of Geotechnical Problems, Chin-Yung Chang, Keshavan Nair and Ram D. Singh, GT74:June 74:269

Finite Element Solution for General Fluid Motion, Gary L. Guymon, HY6:June 73:913:9789

Finite Element Thermoelastoplastic Analysis, Norman A. Cyr, Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068

Flexural Vibrations of Rectangular and Other Polygonal Plates, Yau-Kai Cheung and M. S. Cheung, EM2:Apr 71:391:8038

Flow Around Cylinder Between Parallel Walls, Stevens T.K. Chan and Bruce E. Larock, TN: EM5:Oct 72:1317:9228

Free Vibration of Shells of Revolution Using FEM, Subir K. Sen and Phillip L. Gould, EM2:Apr 74:283:10488

Horizontal Water Particle Velocity of Finite Amplitude Waves, Yuichi Iwagaki and Tetsuo Sakai, 12CEC:71:309

Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, HY11:Nov 72:1983:9372

Incremental Finite Element Matrices, Sundaramoorthy Rajasekaran and David W. Murray, ST12:Dec 73:2423:10226

Inelastic Response of Frames to Dynamic Loads, Donald G. Toridis and Khalilollah Khozeimeh, EM3:June 71:847:8205

Interpretation of Finite Element Procedure As Stress Error Minimization Procedure, Leonard R. Herrmann, TN: EM5:Oct 72:1330:9228

Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247

Lumped Parameter Beams Based on Impedance Methods, Vernon H. Neubert, Hong T. Hahn and Hae Lee, EM1:Feb 70:69:7099

Lumped Parameter Beams Based on Impedance Methods, Richard D. Ellison, Elio E. D'Appolonia and Gerald R. Thiers, SM4:Apr 71:661:8052

Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739

Nonconservative Stability by Finite Element, C. D. Mote, Jr., EM3:June 71:645:8204

Nonlinear Analysis Using Spline Functions, Chandrakant S. Desai, SM10:Oct 71:1461:8462

Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983

Nonlinear Stress Analysis of Reinforced Concrete, Somasundaram Valliappan and T. F. Doolan, ST4:Apr 72:885:8845

Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73:603:9912

Numerical Design-Analysis for Piles in Sands, Chandrakant S. Desai, GT6:June 74:613:10617

Numerical Error in Structural Solutions, John R. Roy, ST4:Apr 71:1039:8036

Plane Strain Approximations in Finite Element Analyses of Temporary Walls, Yuet Tsui and Gerald W. Clough, GT74:June 74:173

Plane Stress Limit Analysis by Finite Elements, Ted B. Belytschko and Philip G. Hodge, Jr., EM6:Dec 70:931:7746

Plane Stress Reinforced Concrete Finite Elements, James Colville and Jamil Abbasi, ST5:May 74:1067:10554

Prismatic Solid Analysis of Pavement Structures, Raman Pichumani and John E. Crawford, GT74:June 74:303

Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448

Recent Developments in Earthwork Instrumentation, Raymond A. Forsyth and Kenneth Jackura, EFSE:Aug 74:254

Responsibilities of Computer-Aided Design, Charles F. Beck, CE:June 72:58

Roof Movement Due to Increasing Roof Span in an Underground Opening -- Abstract, W. Karwoski, Raghbir S. Sandhu and R. Singh, RM14:73:752
Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
Some Orthotropic Skew Plate Finite Element Results, Gerard R. Monforton, TN: ST4:Apr 72:955:8838
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653:9016
Stress Intensity Factors by Calibrated Finite Element Method, P. F. Walsh, TN: EM6:Dec 72:1611:9396
Stress-Strain Analysis of El Infiernillo Dam, Jesus Alberro A., PES:72:I-837
Stress Studies of Three Old Arch Dams, Gurmukh S. Sarkaria, IMROD:Sept 73:418
Strongly Curved Finite Element for Shell Analysis, John W. Leonard and Chin-Tsang Li, EM3:June 73:515:9805
Tectonic Stresses and Rock Slope Stability, Jerry S. Dodd and H. Walter Anderson, RM13:72:171
Torsional Stiffness of Embedded Footings, Movses J. Kaldjian, SM7:July 71:969:8241
Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, PO2:Nov 73:349:10150
Use of the Finite Element Method in Analysis of Soil-Structure Interaction, James M. Duncan, PES:73:III-265
Variational Approach to Non-Darcy Flow, John A. McCorquodale, HY11:Nov 70:2265:7694
Wave Energy Dissipation in Rockfill, John A. McCorquodale, CE13:72:III-1885

Finite Elements

Analysis of Eccentrically Stiffened Cylindrical Shells, Peter C. Kohnke and William C. Schnobrich, ST7:July 72:1493:9033
An Analysis of the Cracking at Duncan Dam, Zdenek Eisenstein, A. V.G. Krishnayya and Norbert R. Morgenstern, PES:72:I-765
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
Comparative Study of Soil Spring and Finite Element Models for Seismic Soil-Structure Interaction Analysis of Nuclear Power Plants, P. K. Agrawal, Shih-Lung Chu and Hemant H. Shah, SDNPF:Dec 73:63
Comparison Of Finite Elements For Plate Bending, John F. Abel and Chandrakant S. Desai, TN: ST9:Sept 72:2143:9162
Constructional Deformations in Rockfill Dam, Arthur D. Penman and Andrew Charles, SM2:Feb 73:139:9560
Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73:1023:10054
Design and Observation of a Tied-Back Wall, Gerald W. Clough, Paul R. Weber and Joseph Lamont, Jr., PES:72:I-1367
Discrete Element Techniques for Rock Slope Analysis, K. C. Ko, RM13:72:183
Earthquake Finite Element Analysis of Structure-Foundation Systems, Ashok K. Vaish and Anil K. Chopra, EM6:Dec 74:1101:10990
Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409
Field Solutions for Turbulent Seepage Flow, Alan K. Parkin, SM1:Jan 71:209:7794
Finite-Element Analogue Of Navier-Stokes Equation, J. Tinsley Oden, TN: EM4:Aug 70:529:7444
Finite Element Analysis of Slabs on Elastic Solids, Yang H. Huang, TE2:May 74:403:10535
Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650
Finite Element Approach to Plane Microelasticity, Mohammed H. Baluch, John E. Goldberg and Severino L. Koh, ST9:Sept 72:1957:9203
Finite Element Method for Elastic Plastic Plates, Ted B. Belytschko and Milan Velebit, EM1:Feb 72:227:8724
Finite Element Permafrost Thaw Settlement Model, Jon F. Sykes, William C. Lennox and Robin G. Charlwood, GT11:Nov 74:1185:10957
Finite Elements and Dynamic Viscoelasticity, David W. Malone and Jerome J. Connor, EM4:Aug 71:1145:8293
Finite Element Shallow Lake Circulation Analysis, Richard H. Gallagher, James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855
Finite Element Solution for Flow in Noncircular Conduits, Robert Gerard, HY3:Mar 74:425:10425
Finite Element Solutions To Differential Equations, John W. Leonard and T. Taz Bramlete, TN: EM6:Dec 70:1277:7715
Free-Surface Ideal Fluid Flows by Finite Element, Stevens T.K. Chan, Bruce E. Larock and Leonard R. Herrmann, HY6:June 73:959:9787
Full Range Analysis of Eccentrically Stiffened Plates, Anton W. Wegmuller, ST1:Jan 74:143:10286
Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828
Improved Two-Dimensional Finite Element, Robert D. Cook, ST9:Sept 74:1851:10808
An Induced Failure at a Trial Embankment: Part II Finite Element Computations, C. P. Wroth and B. Simpson, PES:72:I-65
Influence of Joints in Panelized Structural Systems, Eric F.P. Burnett and R. Clement S. Rajendra, ST9:Sept 72:1943:9207
The Kars (Ontario) Embankment Foundation, Gerald P. Raymond, PES:72:I-319
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
Large Displacement Analysis of Thin Plates, James Colville, Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593
Movements in Dams Due to Reservoir Filling, Esmail S. Nobari and James M. Duncan, PES:72:I-797
Nonlinear Dynamics of Cables with Low Initial Tension, John W. Leonard, EM2:Apr 72:293:8805
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Partially Cracked Finite Elements, John C. Bell and David G. Elms, TN: ST7:July 71:2041:8226
Performance of Two Mat Foundations on Boston Blue Clay, Salvatore V. DeSimone and James P. Gould, PES:72:I-953
Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
Sand Drain Performance on a San Francisco Bay Mud Site, Edward Margason and Ignacio Arango, PES:72:I-181
Sandwich Plate Structure Analysis by Finite Element, Paul P. Fazio and Kinh H. Ha, ST6:June 74:1243:10593
Seismic Response by Variable Damping Finite Elements, Izzat M. Idriss, H. Bolton Seed and Norman Serff, GT1:Jan 74:1:10284
Shell and Plate Analysis by Finite Elements, Rembert F. Jones, Jr., ST5:May 73:889:9744
Simulation of Excavation Using Finite Elements, Vallampadugai S. Chandrasekaran and George J.W. King, TN: GT9:Sept 74:1086:10774
Slope Analysis for Explosive Excavations, Richard H. Gates, RM13:72:243
Soil Structure Interaction Problems for Nuclear Containment Structures, E. Kausel and Jose M. Roesset, EPCE:Aug 74:469
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82
State-of-the-Art in Inflatable Shell Research, John W. Leonard, EM1:Feb 74:17:10334

Stresses in an Earth Dam due to Contruction and Reservoir Filling, Julio E. Valera and Jian C. Chen, GT74:June 74:33
Structural Analysis--Statics, Dynamics, and Stability by Moshe F. Rubenstein (Book Review), John E. Goldberg, CE:Oct 72:18
Temperature Effects on Behavior of Port Allen Lock, Gerald W. Clough and James M. Duncan, PES:72: I-1467
Theory of Nonlinear Elastic Structures, Graham H. Powell, ST12:Dec 69:2687:6943
Three-Dimensional Finite Element Analyses of Dams, Guy Lefebvre, James M. Duncan and Edward L. Wilson, SM7:July 73:495:9857
Three Dimensional Soil-Structure Seismic Analysis Using Finite Elements, Surendra Singh, Ramachandran Srinivasan, P. K. Agrawal and Shih-Lung Chu, SDNPF:Dec 73:43
Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau-Kai Cheung, EM5:Oct 72: 1225:9233
Two-Dimensional Heated Pipeline in Permafrost, Jon F. Sykes, William C. Lennox and Tharakkal E. Unny, GT11:Nov 74:1203:10956
Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, Jamshid Ghaboussi and Edward L. Wilson, EM4:Aug 72:947:9152
Vibrational Characteristics of Linear Space Frames, William D. Whetstone and Charles E. Jones, ST10: Oct 69:2077:6821
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230

Finite Groups
Finite Strip Method Analysis of Elastic Slabs, Yau-Kai Cheung, EM6:Dec 68:1365:6267

Finland
Esthetics in Water Towers, John P. Klus, CE:Sept 73: 84

Fire Alarm Systems
Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB: 73:Ib-8-523
Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, Gaylord R. Claiborne and Lucien Wahl, TB:73:Ib-8-541

Fire Control
Controlling Fires in Tall Buildings, Robert F. Legget, CE:Nov 71:63
Fire and Blast, Summary Report, Duiliu Sfintesco, Margaret Law and Rowland J. Mainstone, TB:73: Ib-8-739
Fire in Vegetation Management: Its Effects on Soil, L. F. DeBano and Raymond M. Rice, IAWM:72: 327
ICBO-BOCA Fire Provisions, John G. Degenkolb, TB:73:Ib-8-733
System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569
Weather Modification for Alaska Fire Control, James W. Franks, OIDS:72:423

Fire Damage
Comments on Fire, M. Galbreath, J. H. Mc Guire and B. E. Allen, TB:73:Ib-8-721
Reinforced Concrete Column Response to Fire, Boris Bresler and H. Bizri, TB:73:Ib-8-723
Repair of Steel Structures After Fire, Roger H. Wildt, TB:73:Ib-8-688
Response of Steel Building in Fire, Maxwell G. Lay, TB:73:Ib-8-719

Fire Extinguishing Agents
Fire Safety, Calvin H. Yuill, TB:73:Ib-8-677
Sprinklers, H. W. Marryatt, TB:73:Ib-8-681

Fire Fighting
Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697
Sprinklers, H. W. Marryatt, TB:73:Ib-8-681

Fire Prevention
"America Burning," the Report of the National Commission on Fire Prevention and Control (Book Review), Paul D. Berger, CE:Mar 74:38
CIL House, M. I. Gilmore, TB:73:C-P-284
Electrieal Systems in Tall Buildings, State-of-Art Report 5, Jo Chen Strunk, TB:73:Ia-2-349
Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, Ove Pettersson, TB:73:Ib-8-585
Fire Safety in High Rise Buildings, David C. Grupp, BP73:Dec 73:454
ICBO-BOCA Fire Provisions, John G. Degenkolb, TB:73:Ib-8-733
A Probabilistic Approach Toward Integrated Fire Engineering Design, J. Witteveen, TB:73:Ib-8-728

Fire Protection
Artic Research Laboratory, William H.G. Van Ness, CE:May 71:69
Book Review: A Complete Guide To Fire And Buildings, James C. Spence, CE:July 73:30
Concrete Design Standards in Arab Countries, State-of-Art Report 6, Jacques Nasser, TB:73:III-20-113
Electrical Systems in Tall Buildings, State-of-Art Report 5, Jo Chen Strunk, TB:73:Ia-2-349
Fire Resistance of Unprotected Steel Columns, W. W. Stanzak and T. T. Lie, ST5:May 73:837:9719
Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638
Performance Requirements for Fireproofing Materials, Lawrence G. Seigel, EM3:June 74:489: 10598
Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
Safety Level Decisions, State-of-Art Report 3, Niels C. Lind and E. Basler, TB:73:Ib-10-961
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389
Stability of Water Cooled Columns, Atle Gjelsvik, EM4:Aug 71:1205:8335
Steel Column Buckling Under Thermal Gradients, Charles G. Culver, ST8:Aug 72:1853:9150
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681

Fire Resistance
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079
Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Concrete Floor Systems, State-of-Art Report 6, Joseph P. Colaco, TB:73:III-21-237
Fire and Blast, Theme Report, Duiliu Sfintesco, TB: 73:Ib-8-463
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067
Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638
System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569

Fires
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682
CIL House, M. I. Gilmore, TB:73:C-P-284
Commentary on Structural Standards, Theme Report, P. A. Lorin, TB:73:II-13-7
Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1
Earthquake Loading Response, Theme Report, Kiyoshi Muto, TB:73:Ib-6-151

Fire and Blast, Summary Report, Duiliu Sfintesco, Margaret Law and Rowland J. Mainstone, TB:73:Ib-8-739
Fire and Blast, Theme Report, Duiliu Sfintesco, TB:73:Ib-8-463
Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475
Limit States Design, Theme Report, Franco Levi, TB:73:III-26-843
Non-Linear Analysis and Limit Design, Theme Report, Giorgio Macchi, TB:73:III-22-333
Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, Gaylord R. Claiborne and Lucien Wahl, TB:73:Ib-8-541
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
Safety Practices, State-of-Art Report 3, Rex K. Rainer and Phillip F. Moon, TB:73:Ia-4-701
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128
System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569

Fire Safety
Book Review: Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, Richard W. Bletzacker, CE:June 73:34
Controlling Fires in Tall Buildings, Robert F. Legget, CE:Nov 71:63
Fire and Blast, Theme Report, Duiliu Sfintesco, TB:73:Ib-8-463
Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, Ove Pettersson, TB:73:Ib-8-585
Fire Safety, Calvin H. Yuill, TB:73:Ib-8-677
Fire Safety in High Rise Buildings, David C. Grupp, BP73:Dec 73:454
Goal Oriented Systems Approach to Building Fire Safety, Harold E. Nelson, TB:73:Ib-8-692
ICBO-BOCA Fire Provisions, John G. Degenkolb, TB:73:Ib-8-733
Probabilistic Analysis of Fire Safety, Sven Erik Magnusson, TB:73:Ib-10-1016
Record Concrete Shell Roof Featured in Coliseum, Yue-Chyou Yang, CE:June 72:51
Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, Gaylord R. Claiborne and Lucien Wahl, TB:73:Ib-8-541
System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569

Fish
Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314

Fish and Wildlife
Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73:245:9665

Fish Conservation
Design of Fish Conserving Intake System, Dallas I. Downs and Kenneth R. Meddock, PO2:Dec 74:191:11008
Hydraulic Engineering and the Environment, William A. Hunt, Chmn., HYB:74, 466pp.

Fish Diseases
Gas Supersaturation Problem in the Columbia River, Peter B. Boyer, IRS:Sept 72:205

Fisheries
Cowlitz Salmon Hatchery, Quentin A. Edson and Ray J. Banys, PO1:Jan 71:61:7801
Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11

Fishes
Biological Effects of Spoil Disposal in Chesapeake Bay, David A. Flemer, W. L. Dovel, H. T. Pfitzenmeyer and D. E. Ritchie, SA4:Aug 68:683:6081
Monitors Solve Fish-kill Mystery, Bruce R. Barrett, CE:Jan 71:40

Fishing
Water Quality Considerations In Estuarine Development, Thomas P. Gallagher and John E. Hagan, III, CEO-II:70:229

Fishkill
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440

Fish Ladders
Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11

Fish Management
Fish and Wildlife Values in Water Development, James T. McBroom, IAWM:72:377
Impact on Fish and Wildlife from Land-Use Practice, John C. Peters, IAWM:72:387
Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB:Aug 73:21
The Watershed Approach for Fish and Wildlife, L. Dean Marriage, IAWM:72:369

Fish Passages
Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11

Fish Screens
Hydraulics of a Gravel-Core Fish Screen, Ronald E. Nece and Milo C. Bell, HYB:Aug 73:31

Fish Toxins
Some Biological Impacts of Converting Powerplants from Oil to Coal, Paul F. Berg, EPCE:Aug 74:623

Fishways
Cowlitz Salmon Hatchery, Quentin A. Edson and Ray J. Banys, PO1:Jan 71:61:7801
Development of Wells Hydroelectric Project, James G. Patrick, PO2:Mar 71:267:7967
Discharge Facilities at Hells Canyon Dam, J. T. Gilchrist and D. E. Barclay, PO2:Nov 68:161:6230
Mossyrock Project River-Diversion and Care of Fish, Earl J. Beck, PO1:Jan 71:1:7800
Wells Dam: Powerplant and Spillway Combined, James G. Patrick, Harris H. Burke, Robert T. Loder and Michael W. Erho, CE:Oct 70:61
Wells Hydroelectric Project Fish Facilities, Robert T. Loder and Michael W. Erho, PO2:Mar 71:301:7982

Fixed-Bed Models
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122

Fixed Costs
Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127

Fixed Structures
Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72:1161:8922

Fjords
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717

Flameproofing
Fire Intensity-Resistance Evaluation, Edward M. Krokosky, ST11:Nov 70:2501:7706

Flanges

Buckling of Wide Flange Columns About Minor Axis, Subhash C. Anand, Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513

High Strength Bolts Subject to Tension and Prying, Rajasekharan S. Nair, Peter C. Birkemoe and William H. Munse, ST2:Feb 74:351:10373

Vibration of Flanged Beams and Panels, Satya P. Keshava, TN: ST7:July 73:1681:9828

Flanging

Elastic Buckling of Beam Flange Plates, Kuang-Han Chu and Albert J. Gouwens, TN: EM4:Aug 71: 1329:8271

Flat Concrete Plates

The Shear Strength of Reinforced Concrete Members—Slabs, by the Joint ASCE-ACI Task Committee 426 on Shear and Diagonal Tension of the Committee on Masonry and Reinforced Concrete of the Sturctural Division, Neil M. Hawkins, Chmn., ST8:Aug 74:1543:10733

Flat Plates

Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654

Flexibility

Multi-Process Plant Treats Both Dilute and Strong Sewage, Peter Procopio, CE:June 74:67

Flexibility Methods

Continuous Helicoidal Girders, Assad Abdul-Baki and Abla Shukair, ST10:Oct 73:2183:10108

Matrix Force Analysis of Thin-Walled Structures, Dusan Krajcinovic, ST1:Jan 70:107:7024

Parametric Matrices of Some Structural Members, Leon Ru-Liang Wang, ST8:Aug 70:1735:7494

Flexible Foundations

Euler Beams on a Two Parameter Foundation Model, Milton E. Harr, John L. Davidson, Da-Min Ho, Luis E. Pombo, S. V. Ramaswamy and John C. Rosner, SM4:July 69:933:6651

Flexible Linings

Aguada Blanca Rockfill Dam with Metal Facing, Piero Sembenelli and Marco Fagiolo, GT1:Jan 74: 31:10270

Flexible Pavements

Auto Race Facility: Tracks for Indianapolis, Grand Prix, Dragsters-All in One, George J. Mim Mack and Karl B. Brown, CE:May 71:39

Construction Practice for Hot-Mix Bituminous Pavements, Report of the Subcommittee on Construction of the ASCE Committee on Airfield Pavements, Henry Aaron, Chmn., AT1:Nov 68:31: 6251

Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1: Feb 72:17:8695

Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925

Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72: 311:8858

Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921

Flexible Pavement for Tomorrow's Major Airports, Donald N. Brown, George M. Hammitt, II and Donald M. Ladd, TE4:Nov 69:617:6874

Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139

Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45

Hydrology of Porous Pavement Parking Lots, Thomas J. Jackson and Robert M. Ragan, HY12: Dec 74:1739:11010

Implications of Using Layered Theory in Pavement Design, John P. Nielsen, TE4:Nov 70:495:7662

Impulsive Load Stiffness of Flexible Pavements, Nelson M. Isada, SM2:Mar 70:639:7176

Making Highways Skid-proof, John L. Beaton, CE: Mar 71:42

Need for Estimated Cement Requirements for Stabilizing Lateritic Soils, Samuel A. Ola, TE2:May 74:379:10534

Pennsylvania Tries Mastic Asphalt Pavement, Dale B. Melott, CE:June 73:56

Permanent Deformation in Asphaltic Materials, Geoffrey E. Blight, TE1:Feb 74:263:10327

Predicting Pavement Performance, Robert E. Boyer and Milton E. Harr, TE2:May 74:431:10533

Prismatic Solid Analysis of Pavement Structures, Raman Pichumani and John E. Crawford, GT74: June 74:303

Runway Overlay Applied Overnight at Toledo Airport, Eugene R. Kasper, CE:Aug 69:58

Some Recent Findings in Flexible Pavement Research, Frank H. Scrivner and William M. Moore, HW2:Nov 68:229:6252

Structural Analysis of Flexible Airfield Pavements, Richard G. Ahlvin, Yu Tang Chou and Ronald L. Hutchinson, TE3:Aug 74:625:10727

Systems Analysis Method for Pavement Structures, William Ronald Hudson, B. Frank McCullough, Frank H. Scrivner and Gary Carey, ST1:Jan 71:81: 7852

Traffic Analysis for Airport Asphaltic Pavements, William A. Wild, Everett C. Carter, Jerome W. Hall and Matthew W. Witczak, TE4:Nov 74:873: 10927

Use of Concentration Index for Pavement Design, Richard G. Ahlvin, Yu Tang Chou and Harry H. Ulery, Jr., TE1:Feb 74:135:10349

Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

50th Birthday for Asphalt Institute, History of Asphalt and Asphalt Institute, Arvin S. Wellborn, CE:May 69:62

Flexing

Fatigue of Asphalt Paving Mixtures, Carl L. Monismith and John A. Deacon, TE2:May 69:317: 6543

Flexural Behavior Of Ferro-Cement Panels, Wen F. Chang, D. W. Gibson and N. R. Gibbons, CEO-II: 70:1023

Rectangular Plates with Elastic Edge Supports, Suresh T. Gulati and Walker M. Buehl, TN: EM4: Aug 70:521:7444

Flexural Strength

Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903

Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623

Flexural Members with Confined Concrete, Dudley Charles Kent and Robert Park, ST7:July 71:1969: 8243

Flexural Stiffness, James G. Mac Gregor, TB:73:III-24-724

Flexure Of Thick Rectangular Viscoelastic Plates, S. Srinivas and A. K. Rao, TN: EM3:June 72:763: 8931

Full-Range Analysis of Concrete Frames, Angel L. Lazaro, III and Rowland Richards, Jr., ST8:Aug 73: 1761:9934

Grid Framework Method for Thick Plates in Flexure, Alan L. Yettram and Vincent McKinnon, TN: EM5:Oct 74:1073:10856

Nonlinear Analysis of Concrete Flexural Members, John M. Kulicki and Celal N. Kostem, TB:73:III-22-473

Optimal Flexure Fields for Corners, George I. N. Rozvany, TN: EM4:Aug 74:10692

Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011

Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577

Torsional-Flexural Vibration of Multi-Story Structures, Jacob Gluck, TB:73:Ib-6-298

Torsion/Flexure Interaction, Neil Jackson, TB:73:III-22-463

Flight Paths
Aerotriangulation Precision Attainable for Highway Photogrammetry, Michael C.Y. Hou, SU1:May 74: 7:10527
Environmental Aspects of Airport System Planning, John F. Brown, TE4:Nov 70:543:7674

Floating
Mixed Liquor Solids Separation by Flotation, Michael C. Mulbarger and Donald D. Huffman, SA4:Aug 70:861:7447

Floating Bodies
Floating Breakwater for Reservoir Marinas, Kenneth Chen and Robert L. Wiegel, 12CEC:71:1647
Interaction of Ocean Waves with Floating Plate, Yi-Kwei Wen, EM2:Apr 74:375:10492
Offshore Developments that Minimize Environmental Impact, Charles J. Lord, CO2:June 74:159:10610
Offshore Floating Terminals, Eugene H. Harlow, WW3:Aug 71:531:8295
A Study On Construction Of Floating Breakwaters Or Floating Platforms, Tae Sang Won, CEO-II:70: 943
Tall Floating Towers, Lawrence Wayne Martin and Phillip J. McCabe, CEO-II:70:879
Wave-Maze Floating Breakwater, H. Morgan Noble, CEO-II:70:929

Floats
Integrating-Float Measurements at Low Velocities, Henry Liu and Larry D. Martin, HY1:Jan 70:143: 7027
Integrating-Float Measurements in Turbulent Flows, Henry Liu and Charles D. Morris, HY2:Feb 70: 565:7101

Flocculants
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, NSCD:71:563
Floc Breakup in Turbulent Flocculation Processes, Denny S. Parker, Warren J. Kaufman and David Jenkins, SA1:Feb 72:79:8702

Flocculating
Agglomerate Size Changes in Coagulation, Robert K. Ham and Russell F. Christman, SA3:June 69:481: 6605
Defined Velocity Gradient Model Flocculator, Francois A. Van Duuren, SA4:Aug 68:671:6076
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472
Floc Breakup in Turbulent Flocculation Processes, Denny S. Parker, Warren J. Kaufman and David Jenkins, SA1:Feb 72:79:8702
Stochastic Analysis of Orthokinetic Flocculation, Perry W. Cockerham and David M. Himmelblau, EE2:Apr 74:279:10446
Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73: 17:9540
Turbulence and Flocculation, Yerachmiel Argaman and Warren J. Kaufman, SA2:Apr 70:223:7201

Flocculation
Effect Of Flocculation On Activated Sludge Settling Behavior, George A. Farnworth and Richard I. Dick, TN: SA5:Oct 72:812:9229
Effect of Suspended Wastes on System Design, Liang-tseng Fan, Ming-ching T. Ku and L. E. Erickson, EE6:Dec 74:1231:11018
Floc Breakup in Turbulent Flocculation Processes, Denny S. Parker, Warren J. Kaufman and David Jenkins, SA1:Feb 72:79:8702
Physical Behavior of Flocculent Suspensions in Upflow, James C. Brown and Enrique LaMotta, SA2:Apr 71:209:8054
Response of Activated Sludge to Organic Transient Loadings, Carl E. Adams, Jr. and W. Wesley Eckenfelder, Jr, SA2:Apr 70:333:7205

Flood Control
Alternative Water Resource Systems in the Lower Mekong, Kanchit Chaemsaithong, Lucien Duckstein and Chester C. Kisiel, HY3:Mar 74:461: 10430
An Approach To Operation Of A Regional Primary Water Control Sysrem, William V. Storch and Robert L. Hamrick, SEA:70:45
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
A Case Study of Water Supply & Flood Plain Zoning, William R. Trautman, IAWM:72:193
Computers in Flood Control Planning, L. Douglas James, HY6:Nov 69:1859:6886
Conception Investigation and Design of Arrow Dam, Keith A. Henry and Nigel P. Grant, PO1:May 68: 41:5940
Coordinated Operation of Central Valley and State Water Projects, Welby R. Madsen and David G. Coleman, HY10:Oct 74:1399:10887
Dam Collapse Wave in a River, Armando Balloffet, Eric Cole and Armando F. Balloffet, HY5:May 74: 645:10523
Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367: 10227
Economic Derivation of Reservoir Operating Rules, L. Douglas James, HY5:Sept 68:1217:6111
Effect of Transportation Planning on Flood Plain Management, Thomas M. Lee, HY3:Mar 72:475: 8761
Environmental Health and Community Planning, Joseph A. Salvato, Jr., UP1:Aug 68:23:6084
Evaluation System for Multiple Objective Planning, Charles F. Lemon, IRS:Sept 72:371
Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831
The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60
Flood Channel Doubles as Golf Course, Clifford C. Hood, CE:May 72:49
Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85
Flood Control Release Optimization Using Methods from Calculus, William C. Hughes, HY5:May 71: 691:8117
Flood Inflation, Donald L. Milliken, IMROD:Sept 73:399
The Flood Management Project for Atchison, Kansas, Bernard T. Pierce, IAWM:72:209
Flood-Plain Development Must be Ecologically and Economically Sound, James E. Goddard, CE:Sept 71:81
Flood Regulation by Columbia Treaty Projects, Mark L. Nelson and David M. Rockwood, HY1:Jan 71: 143:7798
Flood Wave Modification Along Prismatic Channels, Giampaolo DiSilvio, HY5:Sept 69:1589:6777
Flow Simulation System, Richard F. Lanyon and James Jackson, HY8:Aug 74:1089:10743
Fourth Dimension for Urban Environment, Kenneth E. Sorensen, UP1:Apr 71:91:8064
Gabions Used In California Flood Control, Fred R. Cline, (Deceased) and Edward Koehm, CE:Mar 74: 68
General Hydrologic System Model, Ven Te Chow and V. C. Kulandaiswamy, HY6:June 71:791:8176
Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3: July 72:373:9029
Interdistrict Apportionment of Flood Control Costs, Richard R. Dague, E. Robert Baumann and Paul E. Morgan, IR4:Dec 68:441:6298
Investigation of Brahmaputra River, Abdul Latif, HY5:Sept 69:1687:6793
The Johnstown Flood Revisited, Alfred R. Pagan, CE:Aug 74:60

La Protection des Plages du Littoral du Lac Saint-Jean, Richard Bolvin and Yvon Cousineau, CE13: 72:II-1485
Let's Take a Look at Channel Improvement, Frank P. Erichsen, IAWM:72:261
Los Angeles County Flood Control System and the Early 1969 Storms, Walter J. Wood, CE:Jan 70:58
Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72: 115
Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827: 9304
New Concepts in Suburban Drainage in Florida, Kenneth A. Bryant, Jr. and James N. Krider, IR73: Aug 73:471
New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
Optimum Investment in Structural Flood Control, William Whipple, Jr., HY6:Nov 68:1507:6238
Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113
Potamology Data Collection on Lower Mississippi River, Charles M. Elliott, WW3:Aug 70:601:7466
Power Generation Under IJC Regulation, George T. Berry, PO2:Nov 68:217:6257
Principles and Procedures in Flood Plain Management, James E. Goddard and John W. Weathers, HY4:July 69:1321:6696
Public Participation in Environmental Design of Flood Control Channels, Phillip F. Dunn, Jr., PP3: July 72:363:9051
Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42
Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1
Reservoir Operation With Imperfect Flow Forecasts, Samuel O. Russell and William F. Caselton, HY2: Feb 71:323:7931
Rock Tunnels to Control Pollution and Flooding, Vinton W. Bacon and William T. Painter, URC:72: 115
Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
Role of Irrigation in the West's Expanding Economy, Floyd E. Dominy, IR4:Dec 68:401:6281
Selecting Spillway Floods for Existing Structures (Bureau of Reclamation Application), Frederick A. Bertle, IMROD:Sept 73:328
Selecting the Appropriate Design Flood, Gordon R. Williams, IMROD:Sept 73:348
Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020
Some Procedures for Determining Extreme Precipitation Criteria, John T. Riedel, IMROD:Sept 73:284
State Flood-Plain Management Activities, Jack G. Johnson, HY10:Oct 70:2041:7589
Statistical Safety Factor Concept for Determining the Probable Maximum Flood, Boris S. Browzin, SDNPF:Dec 73:557
Streamflow Depletion Resulting from Upstream Surface-Water Impoundment, Stanley P. Sauer, IR73:Aug 73:593
Successful Ice Dusting at Fairbanks, Alaska, 1966, R. Gordan Cook and Mason D. Wade, Jr., HY1:Jan 68:31:5717
Surveys and Mapping in Water Resource Development, Kerry F. Pitts, SU1:May 71:69:8088
Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062
Swampy Site Turned into Prize-Winner, James L. Hart, CE:June 73:82
Systematization of Flood Control Measures, Vujica Yevjevich, HY11:Nov 74:1537:10943
Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7: July 73:1129:9871
Urbanization's Drainage Consequence, Paul O. Reimer and Joseph B. Franzini, UP2:Dec 71:217: 8600
Urban Water Management Needs in Runoff and Flood Regulation, James R. Wallace, UWRM:71:32
Waterfront Renewal in Metropolitan Areas, Donald F. Wood, UP4:Dec 67:199:5673
Water Resources Planning For Pascagoula Basin, Mason B. Oldham, Jr. and John W. Rushing, WW1:Feb 70:65:7060

Flood Estimate

Simple Nonlinear Model for Flood Estimation, Russell G. Mein, Eric M. Laurenson and Thomas A. McMahon, HY11:Nov 74:1507:10933

Flood Forecasting

Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395
Flood-Plain Development Must be Ecologically and Economically Sound, James E. Goddard, CE:Sept 71:81
Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72: 1773:9294
Systematization of Flood Control Measures, Vujica Yevjevich, HY11:Nov 74:1537:10943

Flood Frequency

Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72: 1773:9294
Two-Distribution Method for Flood Frequency Analysis, Krishan P. Singh and Robert A. Sinclair, HY1:Jan 72:29:8639
Urban Flood Frequency Characteristics, William H. Espey, Jr. and David E. Winslow, HY2:Feb 74:279: 10352

Flood Hydrographs

Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
Two-Distribution Method for Flood Frequency Analysis, Krishan P. Singh and Robert A. Sinclair, HY1:Jan 72:29:8639

Flooding

Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71: 321:8545
Analysis of Infiltration into Draining Porous Media, Frank D. Whisler and Keith K. Watson, IR4:Dec 69:481:6946
Deterioration and Restoration of Coastal Wetlands, Sherwood M. Gagliano, Hyuck J. Kwon and Johannes L. van Beek, 12CEC:71:1767
Summaries of Sessions, William N. Holway, IMROD: Sept 73:273

Flood Peaks

Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie Ling Chiang, HYB:Aug 73:371
Management of Ephemeral Stream Channels, Herbert B. Osborn and Kenneth G. Renard, IR3:Sept 73: 207:10005

Flood Plain Regulation

Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85
Hydraulic Engineering and the Environment, William A. Hunt, Chmn., HYB:74, 466pp.
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, HY11:Nov 73:2113:10135
Systematization of Flood Control Measures, Vujica Yevjevich, HY11:Nov 74:1537:10943

Flood Plains

Airphoto Interpretation of Flood Plain Soils, Ralph W. Kiefer, SU1:Oct 69:49:6819
Amortization of Nonconforming Uses in Flood Plains, William R. Walker, UP1:Mar 70:1:7125
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85
Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105

Flood Plain Engineering and Management in Metropolitan Chicago, Richard F. Lanyon, CE:May 74:79
Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85
Formation of Flood Plain Lands, Walter C. Carley, HY3:May 69:981:6574
Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113
Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506

Flood Plain Studies
Flood Plain Engineering and Management in Metropolitan Chicago, Richard F. Lanyon, CE:May 74:79

Flood Plain Zoning
A Case Study of Water Supply & Flood Plain Zoning, William R. Trautman, IAWM:72:193
Flood-Plain Development Must be Ecologically and Economically Sound, James E. Goddard, CE:Sept 71:81
State Flood-Plain Management Activities, Jack G. Johnson, HY10:Oct 70:2041:7589
Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062

Flood Protection
Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42

Flood Routing
Comparison of Four Numerical Methods for Flood Routing, Roland K. Price, HY7:July 74:879:10659
Cubic Interpolation For Numerical Flood Routing, Paul E. Barker and Thomas P. Propson, TN: HY1:Jan 72:309:8617
Desktop Computer Flow Routing, Thomas N. Keefer, HY7:July 74:1047:10669
Flood Regulation by Columbia Treaty Projects, Mark L. Nelson and David M. Rockwood, HY1:Jan 71:143:7798
Implicit Flood Routing in Natural Channels, Michael Amein and Ching S. Fang, HY12:Dec 70:2481:7773
Multiple Linearization Flow Routing Model, Thomas N. Keefer and Raul S. McQuivey, HY7:July 74:1031:10668
Real Time Routing of Flood Hydrographs in Storm Sewers, Garth S. Harris, HY6:June 70:1247:7327
Reverse and Direct Reservoir Routing Method Sets Highway Grade, Constantine Voutyras, CE:Oct 69:56
Unit-Response Method of Open-Channel Flow Routing, Vernon B. Sauer, HY1:Jan 73:179:9499
Unsteady Free-Surface Flow Computations, E. Benjamin Wylie, HY11:Nov 70:2241:7683

Floods
An Alternative Interpretation of the Vaiont Slide, Kwan Y. Lo, C. F. Lee and P. Gelinas, RM13:72:595
Analysis Of Probability And Risk Equations, Mohammad Akram Gill, TN: HY5:May 72:969:8864
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Border Irrigation Advance and Ephemeral Flood Waves, Roger E. Smith, IR2:June 72:289:8979
Bridge Backwater in Wide Valleys, Emmett M. Laursen, HY4:Apr 70:1019:7246
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie Ling Chiang, HYB:Aug 73:371
Comparison of Four Numerical Methods for Flood Routing, Roland K. Price, HY7:July 74:879:10659
Conversion of Maximum Rainfalls to Floods (Bureau of Reclamation Techniques), Frederick A. Bertle, IMROD:Sept 73:302
Cubic Interpolation For Numerical Flood Routing, Paul E. Barker and Thomas P. Propson, TN: HY1:Jan 72:309:8617
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73:2195:10233
Design Criteria for North Sea Dikes, Johann Kramer, WW4:Nov 71:703:8548
Design Flood Frequency Curves, Stanley S. Butler, TN: HY3:Mar 71:479:7945
Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11:Nov 72:1969:9330
Ecological Assessment of Transportation Alternatives, Jason M. Cortell and Donald A. Yonika, UT73:May 73:143
Effect of Period of Record on Flood Prediction, Peter Victorov, HY11:Nov 71:1853:8525
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395
Factors Affecting Floods from Small amd Large Watersheds, Yoseph Bar-Kochba and Andrew L. Simon, IRS:Sept 72:87
Field Tests of Ice Jam Prevention Techniques, Julius H. Moor and Carl H. Watson, HY6:June 71:777:8179
Flood Control Release Optimization Using Methods from Calculus, William C. Hughes, HY5:May 71:691:8117
Flood Flow Downstream from Slide, Harold P. Guy, TN: HY4:Apr 71:643:8018
Flood Frequency Estimating Techniques for Small Watersheds, George Fleming and Delbert D. Franz, HY9:Sept 71:1441:8383
Flood Inflation, Donald L. Milliken, IMROD:Sept 73:399
Flood Peaks from Small Southwest Range Watershed, Kenneth G. Renard, John C. Drissel and Herbert B. Osborn, HY3:Mar 70:773:7161
Flood Plain Engineering and Management in Metropolitan Chicago, Richard F. Lanyon, CE:May 74:79
Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72:1773:9294
General Hydrologic System Model, Ven Te Chow and V. C. Kulandaiswamy, HY6:June 71:791:8176
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Hydrograph Synthesis by Digital Computer, Michael D. Hudlow and Robert A. Clark, HY3:May 69:839:6555
Initial Loss for Flood Estimation and Forecasting, Ian Cordery, HY12:Dec 70:2447:7737
Los Angeles Hillside Developments Put To Test by Recent Rains, Jack J. Schoustra and T. D. Lake, CE:Nov 69:39
Mekong Delta Mathematical Model Program Construction, Dino Zanobetti, Henri Lorgere, Alexandre Preissmann and Jean Andre Cunge, WW2:May 70:181:7259
Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451
Mixed Technique for Computing Surges in Channels, J. Ian Collins and Samuel N. Fersht, HY2:Mar 68:349:5831
Model and Prototype Tests of Buoyant Spillway Gates, Arthur G Strassburger and James F Sias, PO2:Oct 69:335:6863
One-Dimensional Analysis of Floods and Tides in Open Channels, Armando Balloffet, HY4:July 69:1429:6695
Optical Current Meter Use in Southern California, Thomas S. Chandler and Winchell Smith, HY9:Sept 71:1461:8390
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, Nikolai P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Peak Flood Discharge Confidence Limits, Richard M. Shane and Walter R. Lynn, HY1:Jan 69:161:6329

Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113

Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73:383

Principles and Procedures in Flood Plain Management, James E. Goddard and John W. Weathers, HY4:July 69:1321:6696

Probabilities of Rare Floods, Leo R. Beard, IMROD:Sept 73:314

Propagation of Flood Waves in Open Channels, Bahram Mozayeny and Charles C.S. Song, HY3:May 69:877:6561

Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42

Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42

Real Time Routing of Flood Hydrographs in Storm Sewers, Garth S. Harris, HY6:June 70:1247:7327

Reevaluation and Reconstruction of California Dams, Clifford J. Cortright, PO1:Jan 70:55:7008

Review of Spillway Adequacy at Existing Bureau of Reclamation Dams, Garry H. Austin, IMROD:Sept 73:382

River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1:Jan 74:1:10281

River Regulation as Influence on Peak Discharge, Alan F. Huggins and Martin R. Griek, HY7:July 74:901:10671

Run Hydrographs from Poisson Generated Run Lengths, Lourens A.V. Hiemstra, HY11:Nov 74:1617:10959

Runoff Forecasting By Variable Transformation, Mikio Hino, HY4:Apr 70:871:7203

Selecting Spillway Floods for Existing Structures (Bureau of Reclamation Application), Frederick A. Bertle, IMROD:Sept 73:328

Selecting the Appropriate Design Flood, Gordon R. Williams, IMROD:Sept 73:348

Some Procedures for Determining Extreme Precipitation Criteria, John T. Riedel, IMROD:Sept 73:284

State Flood-Plain Management Activities, Jack G. Johnson, HY10:Oct 70:2041:7589

Statistical Safety Factor Concept for Determining the Probable Maximum Flood, Boris S. Browzin, SDNPF:Dec 73:557

Surveys and Mapping in Water Resource Development, Kerry F. Pitts, SU1:May 71:69:8088

Tests of Scour Protection for Bridge Piers, Chesley J. Posey, HY12:Dec 74:1773:11017

Two-Dimensional Analysis of Backwater at Bridges, J. Thomas Franques and Dannial W. Yannitell, HY3:Mar 74:379:10403

Two-Distribution Method for Flood Frequency Analysis, Krishan P. Singh and Robert A. Sinclair, HY1:Jan 72:29:8639

Urban Flood Frequency Characteristics, William H. Espey, Jr. and David E. Winslow, HY2:Feb 74:279:10352

Urban Water Management Needs in Runoff and Flood Regulation, James R. Wallace, UWRM:71:32

Variation in Lag Time for Natural Catchments, Arthur J. Askew, HY2:Feb 70:317:7051

Water Resources Management In South Florida, Charles L. Nowlin, SEA:70:27

Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359

Flood Waves

Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73:2195:10233

Dam Collapse Wave in a River, Armando Balloffet, Eric Cole and Armando F. Balloffet, HY5:May 74:645:10523

Floodways

The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60

Floors

Analysis by Group Iteration Using Substructures, Moshe F. Rubinstein and Duane E. Wikholm, ST2:Feb 68:363:5779

Cellular Steel Floors Mature, Eugene E. Dallaire, CE:July 71:70

Chemical Resistant Resurfacing Mortar for Industry, Dallas Grenley and Lou Kuhlmann, CO2:June 74:133:10603

Composite Beam Incorporating Cellular Steel Decking, Hugh Robinson, ST3:Mar 69:355:6447

Concrete Floor Systems, State-of-Art Report 6, Joseph P. Colaco, TB:73:III-21-237

Damage to Structures Due to Floor Shocks, Nelson M. Isada, ST2:Feb 71:561:7897

The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72, 171pp.

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64

Finite Element Analysis of Metal Deck Shear Diaphragms, Arthur H. Nilson and Albert R. Ammar, ST4:Apr 74:711:10467

Floor-Ceiling System Features Precast Concrete Units, Jerome S.B. Iffland, CE:Apr 72:52

Floor Loads, Emilio Rosenblueth, TB:73:Ib-5-121

Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29

Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599:8786

Lift Dock Combines Drydock and Transfer Platform, Amirikian Arsham, CE:July 71:37

Machine Stress Rated Lumber: Challenge to Design, William L. Galligan and Delos V. Snodgrass, ST12:Dec 70:2639:7772

Optimum Design of Prestressed Concrete Members, Chen H. Wang, ST7:July 70:1525:7422

Oxidation and Heave of Black Shale, Robert M. Quigley, James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703

Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485

Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591

Probability Distribution of Maximum Sustained Load, David T. Bickley, TN: ST11:Nov 74:2361:10904

Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326

Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt, James R. Goodman and Marvin E. Criswell, ST1:Jan 74:11:10274

Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096

Statistical Model for Live Floor Loads, Abraham M. Hasofer, ST10:Oct 68:2183:6146

Time-Dependent Maximum of Floor Live Loads, Abraham M. Hasofer, TN: EM10:Oct 74:1086:10856

Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775

Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, Kenneth H. Lenzen, TB:73:II-17-667

Wear Resistant Industrial Floors of Portland-Cement Concrete, R. F. Ytterberg, CE:Jan 71:68

Florida

Dade County Bikeways, Ron Tietgen, BP73:Dec 73:286

Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314

Dewatering Case History in Florida, John H. Schmertmann, CO3:Sept 74:377:10803

Effects of Farming—Urban Drainage on Fresh Water, C. W. Sheffield and William M. Bishop, IR73:Aug 73:691

Engineering Technology at Florida International (Bachelor's Programs for a Major Urban Region), Robert W. Ellis, Jr., CEE:Feb 74:1-264

Establishment of a Coastal Setback Line in Florida, James A. Purpura, CE13:72:II-1599

Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735

Hydrogeology of Florida's Largest Citrus Grove, William E. Wilson, IRS:Sept 72:293

Mat Foundation and Preload Fill, VA Hospital Tampa, L. David Wheeless and George F. Sowers, PES:72:I-939

New Concepts in Suburban Drainage in Florida, Kenneth A. Bryant, Jr. and James N. Krider, IR73: Aug 73:471

Numerical Modeling of Constituent Transport in Bay Systems, Robert G. Dean and R. B. Taylor, CE13: 72:III-2227

Optimization of an Existing Large Complex Drainage System, N. N. Khanal and Robert L. Hamrick, OIDS:72:503

The Perimeter Canal—A New Approach to Discharge Urban Water into a Coastal Mangrove Area, Charles H. King, Jr. and Gerald M. Ward, IR73:Aug 73:99

South Florida Training Runway and Everglades National Park, H. C. Lamberton, Jr., CE:Apr 70:53

Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598

Tampa International Airport: Model for the Jumbo-Jet Age, George S. Jenkins, CE:Oct 71:68

Technician Manpower Needs in Florida, Richard D. Ray, CEE:Feb 74:1-279

Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807

Walt Disney World -- A Philosophy of Planning, William E. Potter, PWS:Nov 72:71

Wind Loads For National Airlines Hangar In Miami, Frederick M. Law, TN: ST1:Jan 72:421:8619

Flotation

Floating Foundations for Control of Settlement, David J. D'Appolonia and T. William Lambe, SM6: June 71:899:8215

Optimization of the Ion Flotation of Dichromate, Robert B. Grieves, Gregory A. Ettelt, J. Thomas Schrodt and Dibakar Bhattacharyya, SA3:June 69: 515:6610

Removal of Lignin from Water by Precipitate Flotation, Mu-Hao Wang, Marvin L. Granstrom, Thomas E. Wilson and Lawrence K. Wang, EE3: June 74:629:10574

Research on Pipeline Flotation, Albert J. Bonar and Osman I. Ghazzaly, TE2:May 73:211:9718

Flow

Effects of Helix Angle on Flow in Corrugated Pipes, Edward Silberman, HY11:Nov 70:2253:7685

Recession Flow in Surface Irrigation, I-pai Wu, IR1: Mar 72:77:8764

Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109

Flow Augmentation

Valuation of Flow Augmentation Releases, Buford J. Carter, Jr., James P. Heaney and Edwin E. Pyatt, SA3:June 71:345:8203

Flow Characteristics

Flow Characteristics of Sloping Channel Jumps, Nallamuthu Rajaratnam and Valupadas Mura Hari, HY6:June 74:731:10594

Flow-Induced Forces on Protruding Walls, Eduard Naudascher and Frederick A. Locher, HY2:Feb 74: 295:10347

General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205

Method to Solve Cubic Equation for Depth Below Overfall, Sat Dev Khanna, TN: IR1:Mar 74:103: 10383

Some Basic Concepts on Flow in Branching Conduits (Abstract), James R. Villemonte, HYB:Aug 73:203

Subcritical Kinematic Flow in a Stable Stream, William J. Gburek and Donald E. Overton, HY9: Sept 73:1433:10026

Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY7:July 72:1101:9009

Flow Control

Cavitation in Butterfly Valves, James W. Ball and J. Paul Tullis, HY9:Sept 73:1303:9993

Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919

Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241

Water Hammer Analysis, Victor L. Streeter, HY6: Nov 69:1959:6899

Flow Distribution

Distribution Channels with Multiple Outlets, William E. Hart and John Borrelli, IR2:June 72:267:8976

Flow Field Surrounding a Suction Pipe Inlet, David R. Basco and William J. Apgar, HYB:Aug 73:121

Hydraulic Control for Flow Distribution, Kuan M. Yao, SA2:Apr 72:275:8808

Two-Distribution Method for Flood Frequency Analysis, Krishan P. Singh and Robert A. Sinclair, HY1:Jan 72:29:8639

Flow Measurement

Analysis of Integrating-Float Flow Measurement, Henry Liu and Larry D. Martin, HY5:Sept 68: 1245:6116

Brink Depth for Trapezoidal Broad-Crested Weir, Birendra N. Neogy, HY12:Dec 72:2171:9427

Characteristics of Flow Weirs of Finite Crest Width, Singamsetti Surya Rao and Manoj Kumar Shukla, HY11:Nov 71:1807:8515

Free Overfall As Flow Measuring Device, Sebastian W. Bauer and Walter H. Graf, IR1:Mar 71:73:7987

Importance of Flow Measurement in Water Control, W. Roger Walker, IRS:Sept 72:131

Integrating-Float Measurements in Turbulent Flows, Henry Liu and Charles D. Morris, HY2:Feb 70: 565:7101

The Measurement of Tidal Water Transport in Channels, R. E. Klein, 12CEC:71:1887

Nearshore Currents Southeastern Strait of Georgia, M. L. Schwartz, R. C. Fackler, E. A. Hoerauf, C. E. Larsen, K. L. Lingbloom and M. A. Short, CE13:72:III-2503

Rehabilitation of Irrigation System, Ray S. Bennett and Charles F. Lurvey, IRS:Sept 72:151

Triangular Broad-Crested Weir, Clifford D. Smith and Wen S. Liang, IR4:Dec 69:493:6954

Water Current Meter for Mean Flow Measurements, David Smith, 12CEC:71:1903

Flowmeters

Analysis of Integrating-Float Flow Measurement, Henry Liu and Larry D. Martin, HY5:Sept 68: 1245:6116

Dr. Santorio's Water Current Meter, Circa 1610, Arthur H. Frazier, HY1:Jan 69:249:6351

Free Overfall As Flow Measuring Device, Sebastian W. Bauer and Walter H. Graf, IR1:Mar 71:73:7987

Instrument Support Structure, Mervin D. Palmer, CEO-II:70:401

Measuring Solid-Liquid Mixtures in Closed Conduits, Richard N. Weisman and Walter H. Graf, WW4: Nov 68:453:6232

Rotary Flow Meter as Turbulence Transducer, Erich J. Plate and James P. Bennett, EM6:Dec 69:1307: 6955

Water Current Meter for Mean Flow Measurements, David Smith, 12CEC:71:1903

Flow Nets

Approximate Solution to Flow Problems Under Dams, Demetrious G. Christoulas, SM11:Nov 71:1573:8528

Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:I237

Flow Patterns

Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603:9191

Flow Profiles

Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547:9117

Effect of Channel Shape on Varied Flow Profiles, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY1:Jan 71:55:7796

Engineer's Notebook: Preliminary Flow Profiles For Highway Engineers, Eugene Allen Gulliver, CE: Dec 73:49

Flow Profile Computation by Direct Integration, Kanakatti Subramanya and Amruthur S. Ramamurthy, TN: HY9:Sept 74:1307:10776

Numerical Method of Computing Flow Profiles, Ramanand Prasad, HY1:Jan 70:75:7005

Water Surface Configuration in Channel Bends, Chin-lien Yen and Ben Chie Yen, HY2:Feb 71:303:7928

Flow Rate

Containing Oil Slicks in Flows of Finite Depth, David L. Wilkinson, CE13:72:III-2567

Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8: Aug 72:1367:9088

Exact Flow Rates from Dupuit's Approximation, Bruce W. Hunt, HY3:Mar 70:633:7140

Flow Rates in Two-Dimensional, Unsteady, Confined Groundwater Flow, Bruce W. Hunt, HY2:Mar 69: 603:6451

Measurement of Velocity-Concentration Covariance, Raul S. McQuivey and Thomas N. Keefer, HY9: Sept 72:1625:9184

Flow Resistance

Diffusion and Dispersion in Open Channel Flow, Arthur C. Miller and Everett V. Richardson, HY1: Jan 74:159:10298

Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697

Dynamic Equations for Steady Spatially Varied Flow, Ben Chie Yen and Harry G. Wenzel, Jr., HY3:Mar 70:801:7179

Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73: 793:9748

Flexible Roughness in Open Channels, Nicholas Kouwen and Tharakkal E. Unny, HY5:May 73:713: 9723

Flow Retardance in Vegetated Channel , Nicholas Kouwen, Tharakkal E. Unny and Harry M. Hill, IR2:June 69:329:6633

Flow Through Annulus with Large Radial Clearance, M. H. Abdul Khader and H. Suresh Rao, HY1:Jan 74:25:10265

Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72: 447:8836

Junction Losses in Laminar and Transitional Flows, Donald K. Jamison and James R. Villemonte, HY7: July 71:1045:8258

Obtaining Overland Flow Resistance by Optimization, David L. Schreiber and Donald L. Bender, HY3:Mar 72:429:8773

Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11: Nov 72:2015:9370

Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107

Turbulent Flows Past Boundaries with Small Streamwise Flows, John F. Kennedy, Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664

Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514

Flow Separation

Open Channel Expansions Fitted with Local Hump, Amruthur S. Ramamurthy, Sanjay Basak and Pattabhi Rama Rao, HY5:May 70:1105:7257

Flow Visualization

Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897: 10119

Flow Visualization in Turbulent Boundary Layers, Joseph A. Clark and Eric Markland, HY10:Oct 71: 1653:8459

Fluctuation

Lake Michigan-Huron Stage-Frequency and Trend, R. Robinson Rowe, WW3:Aug 69:261:6716

Flue Gases

Dynamic Response of Steel Chinney Liners to Flue Gas Flow, J. J. Deans and J. G. Willmot, EPCE: Aug 74:47

Fluid Dynamics

Spherical Structural Systems In Fluid Media, Bijoy K. Bhattacharys and John F. Carney, III, CEO-II: 70:555

Fluid Flow

Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859

Analytically Determined Bed-form Shape, Albert G. Mercer, TN: EM1:Feb 71:175:7858

Appearance of Unstable Buoyant Jet, Habib O. Anwar, HY7:July 72:1143:9012

Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381

Autocorrelation and Spectral Analysis in Hydrology, George Quimpo, HY2:Mar 68:363:5837

Behavior Of Porous Bed Near Flow Singularity, C. Samuel Martin, SM2:Feb 71:393:7935

Behavior of Small Gas Bubbles in Accelerated Liquid, Subba Rao Gutti, HY4:Aug 68:1073:6047

Boundary Shear Stress in Rivers and Estuaries, Ronald E. Nece and Dungan J. Smith, WW2:May 70:335:7280

Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378

Cell Method for Computing Lake Circulation, James A. Liggett, HY3:Mar 70:725:7152

Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215

Computation for Circulation in Stratified Lakes, Kwang K. Lee and James A. Liggett, HY10:Oct 70: 2089:7634

Computation of Oil Pipeline Transients, Michel Kaplan, Victor L. Streeter and E. Benjamin Wylie, PL3:Nov 67:59:5608

Containing Oil Slicks in Flows of Finite Depth, David L. Wilkinson, CE13:72:III-2567

A Criterion for Vegetation Stiffness, Nicholas Kouwen and A. Harrington, IR73:Aug 73:273

Cross-Velocity Behavior in Parallel Channel Flow, James F. Wilson, EM4:Aug 69:921:6736

Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699

Density Induced Return-Currents in Outlet Channels, Ben P. Ritter, HY2:Feb 70:529:7086

Distribution of Tractive Force in Open Channels, Viswanathan C. Kartha and Hans J. Leutheusser, HY7:July 70:1469:7415

Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73: 747:9729

Dynamic Response of Steel Chinney Liners to Flue Gas Flow, J. J. Deans and J. G. Willmot, EPCE: Aug 74:47

Dynamic Stability of Tube Conveying Fluid, Shoei-sheng Chen, EM5:Oct 71:1469:8420

The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727

Effect Of Side Walls On Flow Past Bluff Bodies, Thomas L. Shaw, HY1:Jan 71:65:7788

Effect of Turbulence on Galloping Instability, Milos Novak and Hiroshi Tanaka, EM1:Feb 74:27:10338

Enhanced Dispersion in Drag Reducing Open Channel Flow, Jerald P. Peterson, Walter E. Castro, Paul B. Zielinski and William F. Beckwith, HY6:June 74:773:10622

Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852

Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613

Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71:1269:8367

Fall Velocity of Irregular Shaped Particles, George R. Alger and Daryl B. Simons, HY3:May 68:721:5949

Finite-Element Analysis of Seepage in Elastic Media, Ranbir S. Sandhu and Edward L. Wilson, EM3:June 69:641:6615

Finite Element Solution for Flow in Noncircular Conduits, Robert Gerard, HY3:Mar 74:425:10425

Finite Element Solution for General Fluid Motion, Gary L. Guymon, HY6:June 73:913:9789

Flow Analysis of Large Triangular Weit, Donn G. DeCoursey and Bruce J. Blanchard, HY7:July 70:1435:7405

Flow Around Cylinder Between Parallel Walls, Stevens T.K. Chan and Bruce E. Larock, TN: EM5:Oct 72:1317:9228

Flow in Conduits with Low Roughness Concentration, John A. Roberson and C. K. Chen, HY4:Apr 70:941:7224

Flow of Layered Fluid Over Broad Crested Weir, Ian R. Wood and K. K. Lai, HY1:Jan 72:87:8649

Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704

Flow Through Annulus with Large Radial Clearance, M. H. Abdul Khader and H. Suresh Rao, HY1:Jan 74:25:10265

Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227

Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465

Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219

Flux Development Region in Submerged Jets, W. Hall C. Maxwell, EM6:Dec 70:1061:7756

Forces From Submerged Jets, Norbert L. Ackermann and Rodolfo Undan, HY11:Nov 70:2231:7675

Formulas for Convective Motion of Fluids, Gee Tsang, TN: EM1:Feb 71:155:7858

Formulation of Mathematical Watershed-Flow Model, Cheng-lung Chen and Ven Te Chow, EM3:June 71:809:8199

Free-Surface Flow Through Heterogeneous Porous Media, Roland W. Jeppson, HY1:Jan 69:363:6364

Free-Surface Ideal Fluid Flows by Finite Element, Stevens T.K. Chan, Bruce E. Larock and Leonard R. Herrmann, HY6:June 73:959:9787

Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes, Hemmat H. Safwat and Jaap v.d. Polder, HY11:Nov 73:1933:10158

Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692

General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205

Gravity-Affected Flow from Planar Sluice Gatel, Bruce E. Larock, HY4:July 69:1211:6674

Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72:447:8836

Heterogeneous Flow of Solids in Pipelines, Iraj Zandi and George C. Govatos, HY3:May 67:145:5244

Hydraulic Network Analysis Using Linear Theory, Don J. Wood and Carl O.A. Charles, HY7:July 72:1157:9031

Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172

Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, HY11:Nov 72:1983:9372

Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299

Impinging Circular Turbulent Jets, Spyridon Beltaos and Nallamuthu Rajaratnam, HY10:Oct 74:1313:10852

Inadequacies of Piston Theory in Fluid-Shell Interactions, Jerome M. Klosner, EM2:Apr 70:143:7237

Influence of Secondary Flow on Drag Force, Charles Dalton and Frank D. Masch, EM5:Oct 68:1249:6193

Initial Instability of Fine Bed Sand, Anthony J. Grass, HY3:Mar 70:619:7139

Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345

Inverse Solution to Three-Dimensional Flows, Roland W. Jeppson, EM4:Aug 72:789:9110

Irrotational Flow with Irregular Boundary Shapes, Albert G. Mercer, HY8:Aug 73:1209:9937

Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3

Laminar Flow Between Porous Rotating Disks, Abdel F. Elkouh, EM4:Aug 68:919:6069

Linearized Non-Stokesian Drag in Turbulent Flow, Barclay G. Jones, Raymond J. Ostensen and Charles C. Meek, TN: EM1:Feb 73:233:9528

Linear-Momentum Flux to Overbank Sections, Robert R. Wright and Marion R. Carstens, HY9:Sept 70:1781:7517

Longitudinal Dispersion in Saturated Porous Media, Miguel A. Marino, HY1:Jan 74:151:10296

A Man of Hydraulics: Henri de Pitot (1695-1771), Rene Chevray, HY4:July 69:1129:6650

Mean Pore Sizes from Flow Measurements, Richard P. Long and Thomas F. Zimmie, TN: SM7:July 73:583:9865

Method to Solve Cubic Equation for Depth Below Overfall, Sat Dev Khanna, TN: IR1:Mar 74:103:10383

Mixed Technique for Computing Surges in Channels, J. Ian Collins and Samuel N. Fersht, HY2:Mar 68:349:5831

A Model for Computation of Stratified Turbulent Flow, J. L. Lumley, ISSF:Aug 72:335

A Model for Turbulent Transfer in the Wall Region, Lindon C. Thomas and Liang-Tseng Fan, TN: EM1:Feb 71:169:7858

Motion of Two-Dimensional Starting Plume, Gee Tsang and Ian R. Wood, EM6:Dec 68:1547:6321

Movement of Sand in Tunnels, Dagfinn K. Lysne, HY6:Nov 69:1835:6880

New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956

Nonconservative Stability by Finite Element, C. D. Mote, Jr., EM3:June 71:645:8204

Nondimensional Gradually Varied Flow Profiles, Cheng-lung Chen and Chun-Tsung Wang, HY5:Sept 69:1671:6790

Nonlinear Flow in Porous Media, Nazeer Ahmed and Daniel K. Sunada, HY6:Nov 69:1847:6883

Nonlinear Flow Through Granular Media, David Ellis Wright, HY3:July 68:851:6018

Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300

Numerical Solutions to Free-Surface Axisymmetric Flows, Roland W. Jeppson, EM1:Feb 69:1:6381

Observation of Sedimentmotion by Underwater-Television, Gunter Luck, 12CEC:71:687

One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF:Aug 72:641

Onset of Instability Of Power-Law Fluid in Couette Flow, Yun-Sheng Yu and Dan B. McVickar, EM1: Feb 71:1:7887
Parameters for Bed Slip Point in Two-Phase Flow, Kenneth C. Wilson, HY10:Oct 71:1665:8426
Particle Velocity Measurements with a Laser Device, C. A. Greated and Norman B. Webber, 12CEC:71: 1951
Peak Distribution of Random Wave-Current Force, Chi C. Tung, EM5:Oct 74:873:10843
Plane Oscillatory Flow Past Rectangular Obstacles, Le-Chung Cheng, Marlyn E. Clark and James M. Robertson, EM4:Aug 74:707:10719
Predicting Return Flows From Irrigation, Patrick A. Hurley, IR1:Mar 68:41:5838
Pressure Fluctuations in Reattaching Flow, Rangaswami Narayanan and Alan J. Reynolds, HY6:Nov 68:1383:6212
Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919
Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503
Sediment Dispersion in Flow with Moving Boundaries, Cheng-lung Chen, HY8:Aug 71:1181: 8287
Sill-Controlled Flow Transitions and Extent of Erosion, Walter Rand, HY4:Apr 70:927:7212
Similitude in Free-Surface Vortex Formations, Larry L. Daggett and Garbis H. Keulegan, HY11:Nov 74: 1565:10941
Slow Non-Newtonian Flow in Zone of Separation, Arthur A. Giaquinta and Tin-Kan Hung, EM6:Dec 68:1521:6319
Some Basic Concepts on Flow in Branching Conduits (Abstract), James R. Villemonte, HYB:Aug 73:203
Some Sand Transport Phenomena on Coasts with Bars, Mogens Dyhr-Nielsen and Torben Sorensen, 12CEC:71:855
Spatially Varied Flow Over Side-Weirs, Kanakatti Subramanya and Subhash Chandra Awasthy, HY1: Jan 72:1:8627
Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533
Static Wind Loads on Circular Concave Cable Roofs, Gerald R. Seeley, Heinz Stefan and Paul P. Christiano, ST8:Aug 74:1593:10751
Stochastic Model of Turbulent Channel Flow, Jay C. Hardin and Arnold L. Sweet, EM2:Apr 71:375: 8056
Surface Disturbance from Submerged Jet, Norbert L. Ackermann, Rafael T. Apostol and Suvit Siriyong, HY7:July 71:937:8236
Surface Irrigation Using the Kinematic-Wave MethoS, Cheng-lung Chen, IR1:Mar 70:39:7134
Surface Shear Waves, D. Howell Peregrine, HY9:Sept 74:1215:10809
Surface Tension in Froude Models, W. Hall C. Maxwell and J. Richard Weggel, HY2:Mar 69:677: 6482
Three-Dimensional Density Current, Trevor R. Fietz and Ian R. Wood, HY6:Nov 67:1:5549
The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193
Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, PO2:Nov 73:349:10150
Transients in Pipelines Carrying Liquids or Gases, Victor L. Streeter, TE2:Feb 71:15:7884
Triangular Framework Model for Plate Bending, Eero-Matti Salonen, TN: EM1:Feb 71:149:7858
Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72: 1187:9061
Turbulence Structure in Plane Couette Flow, James M. Robertson and Henry F. Johnson, EM6:Dec 70: 1171:7754
Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY7:July 72:1101:9009
Turbulent Flow Near Smooth Wall, Robert Gerard, EM6:Dec 74:1129:10999
Turbulent Helical Flow in an Annuluf, Lynn W. Gelhar and Peter L. Monkmeyer, EM1:Feb 68:295: 5815
Two-Dimensional Analysis of Flow in Jet Pumps, Barry J. Hill, HY7:July 73:1009:9847
Unified Analysis of Grid Turbulence, Eduard Naudascher and Cesar Farell, EM2:Apr 70:121: 7214
Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468
Unified View of Diffusion and Dispersion, Edward R. Holley, HY2:Mar 69:621:6462
Variational Principle in Fluid Dynamics, Pierre F. Lemieux, Tharakkal E. Unny and R. N. Dubey, EM6:Dec 70:1031:7731
Variational Principles for Flow in Porous Media, Shlomo P. Neuman and Paul A. Witherspoon, EM2:Apr 71:359:8023
Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514
Velocities Above Rough Bed in Oscillatory Flow, John F.A. Sleath, WW4:Nov 74:287:10930
Vibration Of Pipe Carrying Flowing Fluid, P. Srinivasan and V. Lakshminarayanan, TE2:May 70: 165:7265
Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999
Wave Forces on Cylinders Near a Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, HYB:Aug 73:155
Wind-Generated Internal Waves and Inertial-Period Motions, Wolfgang Krauss, ISSF:Aug 72:283
Wind Shear-Turbulence and Reaeration Coefficient, Aziz F. Eloubaidy and Erich J. Plate, HY1:Jan 72: 153:8651
136, Michael C. Quick, HY7:July 70:1403:7399

Fluid Friction

Effects of Helix Angle on Flow in Corrugated Pipes, Edward Silberman, HY11:Nov 70:2253:7685
Ripple Concentration and Friction Factor, Fred F.M. Chang, HY2:Feb 70:417:7067
Slip Points of Beds in Solid-Liquid Pipeline Flow, Kenneth C. Wilson, HY1:Jan 70:1:6992

Fluid Infiltration

Surface Irrigation Hydraulics and Kinematics, William E. Hart, Day L. Bassett and Theodor S. Strelkoff, IR4:Dec 68:419:6284

Fluidized Bed Processing

Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605

Fluid Mechanics

Boundary Contractions as Controls in Two-Layer Flows, Subhash C. Mehrotra, HY11:Nov 73:2003: 10160
Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
Fluid-Dynamic Consideration Of Bottom Materials, Hormoz Pazwash and James M. Robertson, CEO-II:70:1135
Fluid Interaction with Fracture Propagation in Pipelines, Bernard Steverding and Vernon A. Nieberlein, TE3:Aug 74:583:10726
Fluid Mechanics Teaching and Research: A View from a Dean's Office, Hunter Rouse, HY5:May 72: 775:8899
Influence of Secondary Flow on Drag Force, Charles Dalton and Frank D. Masch, EM5:Oct 68:1249: 6193
Oscillatory Behavior Of Submerged Structures, Robert Y. S. Lai and Lyle F. Mockros, CEO-II:70: 945
Research and Planning in Fluid Mechanics, Stephen J. Kline, HY5:May 72:765:8898
Spherical Structural Systems In Fluid Media, Bijoy K. Bhattacharys and John F. Carney, III, CEO-II: 70:555

Translations of Foreign Literature on Hydraulics, Jan C. Van Tienhoven, Chmn., HY10:Oct 70:2079:7630

Fluids

Fluid Force on Accelerating Bodies, Wallis S. Hamilton, CE13:72:III-1767

Flumes

Calibration of Walnut Gulch Supercritical Flumes, Wendell R. Gwinn, HY8:Aug 70:1681:7479
Coordination of Mobile-Bed Hydraulics, Thomas Bunch, HY6:Nov 69:1871:6884
Corrugated Metal Flumes, Tadaaki Naruse, OIDS:72:219
Direct Measurement of Shear Stress in a Flume, Sylvester Petryk and Hsieh W. Shen, TN: HY6:June 71:883:8161
Effect of Flume Width on Bed-Form Characteristics, Maurice J. Crickmore, HY2:Feb 70:473:7077
Experiments on Bed Form Generation by Wave Action, Geoffrey R. Mogridge and J. William Kamphuis, CE13:72:II-1123
Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854
Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438
Rectangular Cutthroat Flow Measuring Flumes, Gaylord V. Skogerboe and M. Leon Hyatt, IR:Dec 67:1:5628
Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503
Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, HY7:July 74:849:10657
Waves Induced by Non-Permanent Paddle Movements, Carlos de Campos Moraes, Fernando Silveira Ramos and Manuel Mendes de Carvalho, CE13:72:I-707

Flushing

Flushing Characteristics of Small-Boat Marinas, Ronald E. Nece and Eugene P. Richey, CE13:72:III-2489
Flushing Pattern of Non-reactive Effluents, Adel M. Kamel, 12CEC:71:1867
Natural Flushing Ability in Tidal Inlets, I. B. Mota Oliveira, 12CEC:71:1827

Flutter

Aerodynamic Investigations of Box Girder Bridges, Ali Sabzevari and Robert H Scanlan, ST7:July 69:1517:6684
Airfoil and Bridge Deck Flutter Derivatives, Robert H. Scanlan and John J. Tomko, EM6:Dec 71:1717:8609

Fluvial Hydraulics

Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687

Flux Density

Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675

Fly Ash

Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1:May 73:217:9741
Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72:361:8840
Environmental Protection-TVA Experience, Francis E. Gartrell and James C. Barber, SA6:Dec 70:1321:7761
Evaluation of Synthetic Aggregate from Lignite Fly Ash, Roger L. Engelke, William B. Ledbetter and Bob M. Gallaway, TE1:Feb 74:27:10337
Field Tests of Ice Jam Prevention Techniques, Julius H. Moor and Carl H. Watson, HY6:June 71:777:8179
Fly Ash as Structural Fill, Anthony M. DiGioia, Jr. and William L. Nuzzo, PO1:June 72:77:8980
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72:927:9443
Properties of Compacted Sewage Ash, Donald H. Gray, SM2:Mar 70:439:7149
Sewerage and Sewage Treatment: State-of-the-Art Abstracts, Ralph Stone, Chmn, SA1:Feb 70:35:7074
Solidification of Sludges with Portland Cement, E. Alan Cassell and Thomas W. Walker, SA1:Feb 70:15:7053
Water Quality Management - Power Station Coal Ashes, Dennis W. Weeter, James E. Niece and Anthony M. DiGioia, Jr., EPCE:Aug 74:633

Foam

Plastic Foam Serves as Lightweight Fill, Thomas A. Coleman, CE:Feb 74:68
Rigid Urethane Foam Cures Roof Leakage, Bruce C. Gandy, CE:July 73:73

Focal Length

Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346

Fog Dispersion

Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Folded Plates

Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73:799:9715
Analysis of Curved Folded Plate Structures, Christian Meyer and Alexander C. Scordelis, ST10:Oct 71:2459:8434
Analysis of Three Dimensional Thin-Walled Structures, Bharat L. Mehrotra, Aftab A. Mufti and Richard G. Redwood, ST12:Dec 69:2863:6968
Analytical and Model Studies of Continuous Folded Plates, John E. Goldberg, Martin J. Gutzwiller and Robert H. Lee, EM5:Oct 68:1127:6181
Analytical and Model Studies of Prestressed Folded Plates, F. Wayne Klaiber, Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818
Behavior of Unsymmetrical-Continuous Folded Plates, Karl C. Muhlbauer and Fred W. Beaufait, ST12:Dec 69:2783:6958
Buckling of Simply Supported Folded Plates, Michel L. Mikhail and Sidney A. Guralnick, EM5:Oct 71:1363:8414
Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
Experiments with Elastic Folded Plate Models, Stuart E. Swartz and Vernon H. Rosenbraugh, EM3:June 72:711:8992
Failure Modes of Folded Sandwich Panel Roofs, Paul P. Fazio, ST5:May 72:1085:8913
Finite Segment Analysis of Folded Plates, Kam-Shing Lo and Alexander C. Scordelis, ST5:May 69:831:6544
Folded Plate Structures by Finite Strip Method, Yau-kai Cheung, ST12:Dec 69:2963:6985
Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165:8631
Model Test and Analysis of Oblique Folded Plate Structure, James N. Siddall, Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043:9772
Safe Limit Loading of Folded Plate Structures, Morris N. Fialkow, ST10:Oct 72:2181:9249
Sandwich Plate Structure Analysis by Finite Element, Paul P. Fazio and Kinh H. Ha, ST6:June 74:1243:10593
Stiffness Matrix for Sandwich Folded Plates, G. Michael Folie, ST2:Feb 71:603:7925
Yield Line Analysis of Folded Plate Structures, Morris N. Fialkow, ST12:Dec 68:2935:6306

Food Industry

The Civil Engineer in the Food Industry, George E. Weatherford, CE:Aug 74:91

Footings

Analysis of Footing Subjected to Biaxial Bendine, German R. Gurfinkel, ST6:June 70:1049:7329
Analysis of Load-Bearing Fills over Soft Subsoils, James K. Mitchell and William S. Gardner, SM11: Nov 71:1549:8522
Basie Response Fuctions for Elastic Foundations, Anestis S. Veletsos and Branislav Verbic, EM2:Apr 74:189:10483
Bearing Capacities by Plasticity Theory, Hon-Yim Ko and Ronald F. Scott, SM1:Jan 73:25:9497
Bearing Capacity of Footings in Plane Strain, Hon-Yim Ko and Luther W. Davidson, SM1:Jan 73:1: 9496
Bearing Capacity of Footings on Anisotropic Soils, Annapareddy Siva Reddy and Ramanathan J. Srinivasan, SM6:Nov 70:1967:7677
Bearing Capacity Theory From Experimental Results, A. Verghese Chummar, SM12:Dec 72:1311:9411
Calculated and Observed Vibration Amplitudes, Peter J. Moore, SM1:Jan 71:141:7789
Collapse Load of Reinforced Concrete Footings, George G. Meyerhof and Kanakapura S. Subba Rao, ST5:May 74:1001:10531
Comparison of Footing Vibration Tests with Theory, Frank E. Richart, Jr. and Robert V. Whitman, SM6:Nov 67:143:5568
Design and Testing of Cone and Hypar Footings, Robert L. Nicholls and Mohammad V. Izadi, SM1: Jan 68:47:5732
Designing Computer Programs for Bridge Foundations, E. F. Roberts and M. Lohrmann, CE: Dec 71:64
Design of Biaxially Loaded Rectangular Footings, N. Shanmughasundaram, TN: ST10:Oct 74:2157:10858
Dynamic Strip Load On Elastic-Plastic Soil, Kaare Hoeg and H. A. Balakrishna Rao, SM2:Mar 70:429: 7138
EHV-DC System Ties Los Angeles to Northwest, William M. Mahoney, PO1:Jan 71:181:7851
Electric Transmission Tower Design, Matthew Marjerrison, PO1:May 68:1:5932
Finite Dynamic Model for Infinite Media, John Lysmer and Roger L. Kuhlemeyer, EM4:Aug 69: 859:6719
Footblock Design, Weldon S. Booth, CE:Aug 74:59
Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834
Foundation Design of the Waterford Nuclear Plant, Joseph L. Ehasz, Jr. and E. Radin, SDNPF:Dec 73: 83
Lateral and Rocking Vibration of Footings, Anestis S. Veletsos and Yau T. Wei, SM9:Sept 71:1227:8388
Prediction of Footing Vibrations, Milos Novak, SM3: May 70:837:7268
Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092
Scale Effect for Shallow Footings on Dense Sand, Pierre A. Habib, TN: GT1:Jan 74:95:10254
Settlement of Footings on a Non-Uniform Foundation, C. Robert Lennertz, PES:72:I-929
Settlement of Spread Footings on Sand, David J. D'Appolonia, Elio E. D'Appolonia and Richard F. Brissette, SM3:May 68:735:5959
Settlement of Strip Load On Elastic-Plastic Soil, Kaare Hoeg, John T. Christian and Robert V. Whitman, SM2:Mar 68:431:5850
Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716
Simplified Method to Calculate Settlement Beneath Footings, Max L. Calhoon, CE:Feb 72:73
Sliding-Rocking Vibration Of Body On Elastic Medium, Robert T. Ratay, SM1:Jan 71:177:7849
Substation Over Old Mine Gets Firm Footing, James A. Collins, CE:Dec 73:41
Testing Transmission Line Belled Auger Footings, Richard S. Saliman, PES:72:I-1501
Torsional Stiffness of Embedded Footings, Movses J. Kaldjian, SM7:July 71:969:8241
Torsional Vibration of Viscoelastic Foundations, Anestis S. Veletsos and V. V. Damodaran Nair, GT3:Mar 74:225:10415
Upper Bound Analysis Of Rough Footing Indentation, Lawrence A. Larkin, TN: EM2:Apr 72:493:8815
Vibration of Noncircular Foundations, Yong S. Chae, SM6:Nov 69:1411:6918

Force

Computer Model of Vortex Shedding From a Cylinder, John R. Chaplin, HY1:Jan 73:155:9491
Effects Of Pile Roughness On Wave Forces On Piles, Robert M. Sorensen and William J. Burton, CE0-II: 70:441
Fluid Force on Accelerating Bodies, Wallis S. Hamilton, CE13:72:III-1767
Forces From Submerged Jets, Norbert L. Ackermann and Rodolfo Undan, HY11:Nov 70:2231:7675
Optimum Elastic Design of Redundant Trusses, David Johnson and Derick M. Brotton, ST12:Dec 69:2589:6938
Peak Distribution of Random Wave-Current Force, Chi C. Tung, EM5:Oct 74:873:10843
Saint Louis Bay Bridge, Richard E. Whitaker, CO2: Oct 70:149:7588
Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341: 9931
Steam Jet Force Decay, R. H. Greenwood, SDNPF: Dec 73:591
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Forced Vibration

Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679: 8993
Flow-Induced Forces on Protruding Walls, Eduard Naudascher and Frederick A. Locher, HY2:Feb 74: 295:10347
Transverse Beam Vibration Nonlinear Constraint, Mohammed Ali Dokainish and Rajnish Kumar, EM6:Dec 72:1381:9431

Force Structure Planning

Minimum Weight Design of Stress Limited Trusses, Behrooz Farshi and Lucien A. Schmit, Jr., ST1:Jan 74:97:10259

Forecasting

Acoustical Holography as a Tool for Geologic Prediction, Ted O. Price, EFSE:Aug 74:172
Alternative Paths to Guideway Transportation, William F. Hamilton, UTI:71:385
Base Year Trip Tables for Statewide Traffic Models, Dana E. Low, TE3:Aug 69:559:6752
Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
Bonneville Power Administration Electric Transmission and the Environment — Past, Present and Future, George S. Bingham, EPCE:Aug 74:579
Building Settlement on End-Bearing Driven Piles, Amos Komornik, Gdalyah Wiseman and Joseph G. Zeitlen, PES:72:I-1135
Can Engineering Forecasters Effect Water Law?, George W. Reid, E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329
Combined Sewers and Stormwater Drainage - Today and 2050 AD, Carmen F. Guarino and Joseph V. Radziul, CWFE:Mar 71:349
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
Current Perspectives in Disinfection, Bernard B. Berger, NSCD:71:1
Demand Model for Intercity Multimode Travel, Jason C. Yu, TE2:May 70:203:7282
Demand Responsive Transportation Systems, Daniel Brand, UTI:71:327
Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442
Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589

Estimating Costs of Aerial Surveys, Antonio M. Aguilar, CE:Oct 69:70
Estimation of Washload Produced on Certain Small Watersheds, Oswald Rendon-Herrero, HY7:July 74:835:10638
Exploration and Geologic Prediction for Underground Works, Lloyd B. Underwood, EFSE:Aug 74:65
Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
Forecasting Water Demands and Systems Capabilities, Wyndham J. Roberts, Sandor C. Csallany and Neil G. Towery, SA6:Dec 70:1349:7745
Forecasts with Varying Reliability, Myron B. Fiering, SA3:May 69:629:6638
Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051
Framework Plan for Ohio Basin Navigation to 2020, Theodore A. Kent, WW3:Aug 70:665:7473
Future Goals and Directions - The Educator's Viewpoint, William M. Sangster, CEE:Feb 74:2-280
Future Irrigation Demand in the Susquehanna Basin, Howard Miller, IR4:Dec 68:391:6278
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan S. Sandler, EM6:Dec 73:1181:10210
Information Utilization in Project Planning, Donald E. Kawal, CO2:Nov 71:227:8505
Initial Loss for Flood Estimation and Forecasting, Ian Cordery, HY12:Dec 70:2447:7737
Introduction to Section III: Analyzing Innovative Transportation Alternatives, Daniel Brand, UTI:71:185
Introduction to Section IV: Transportation Innovation -- Directions and Strategy, Charles Baker, Chmn., UTI:71:325
Issues in Statewide Transportation Planning, Joseph S. Drake and Lester A. Hoel, TE3:Aug 70:379:7480
Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080
Management and Regulations for the Future, Harvey F. Ludwig, CWFE:Mar 71:111
Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73:III-27-981
Measuring and Interpreting Consumer Preferences, Siegfried M. Breuning, UTI:71:307
A Modern Metropolis Looks Ahead, William D. Hudson, TE4:Nov 74:801:10918
National Weather Service River Forecasting System, John C. Monro and Eric A. Anderson, HY5:May 74:621:10549
Needs of Engineering Education for the Future -- View of a Conuslting Engineer, William W. Moore, CEE:Feb 74:1-327
New Methods in Construction Systems, R. Richard LeVitt, CO3:Sept 74:211:10788
New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19
Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176
Pile Bearing Capacity -- Prediction Versus Performance, George G. Goble, Frederick K. Walker and Frank Rausche, PES:72:I-1243
Predicting Reaeration Coefficients for Polluted Estuary, Gary R. Kramer, EE1:Feb 74:77:10351
Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856
Prediction of Power Plant Emission Impacts, Michael D. Williams and Eric G. Walther, EPCE:Aug 74:601
A Preliminary Study of Storm Surges in Hudson Bay, K. B. Yuen and T. S. Murty, CE13:72:I-215
Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785
Probability Distributions for Hurricane Effects, Larry R. Russell, WW1:Feb 71:139:7886
A Profile of the Future Construction System, Joseph C. Kellogg, CO1:Mar 71:147:7938
Progress Model for Construction Activity, Robert I. Carr, Thomas O. Brightman and Franklin B. Johnson, CO1:Mar 74:59:10428
Projections of the U.S. Airline Fleet in the Early 1980's, Robert Horonjeff and Richard Coykendall, ASC73:Mar 73:1
Promising and Expanding Programs (Panel Discussions), CEE:Feb 74:2-225
Promising Trends in Education in Public Works Engineering, Herbert A. Goetsch, CEE:Feb 74:2-114
Proposed Transportation and Visitor Center, Robert W. Harris, TE3:Aug 70:301:7459
Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214
Rehabilitation of Dams: Retrospect and Prospect, Gilbert G. Stamm, IMROD:Sept 73:4
Research and Development Needs for Advanced Waste Treatment Process to Serve Future Needs, Francis M. Middleton and Robert L. Stenburg, CWFE:Mar 71:189
Reservoir Operation With Imperfect Flow Forecasts, Samuel O. Russell and William F. Caselton, HY2:Feb 71:323:7931
River Regulation as Influence on Peak Discharge, Alan F. Huggins and Martin R. Griek, HY7:July 74:901:10671
Runoff Forecasting By Variable Transformation, Mikio Hino, HY4:Apr 70:871:7203
Runoff Forecasts by Linear Predictive Filter, Mikio Hino, HY3:Mar 70:681:7146
Seismic Response Predictions of Bridge Pier, Robin Shepherd and Richard E. McConnel, EM3:June 72:609:8949
Sensitivity Analysis of Wind Generated Wave Predictions, Charles D. D. Howard, WW2:May 71:365:8153
Settlement Analysis of Two Highway Embankments, Hon-Hsieh Su and Rogel W. Prysock, PES:72:I-465
Settlement of a Large Mat on Sand, Joseph A. Fischer, James T. Dette and Harcharan Singh, PES:72:I-997
Settlements Development: Observed Versus Predicted, Abraham Ellstein, PES:72:I-1073
Simple Method for Predicting Dispersion in Streams, Raul S. McQuivey and Thomas N. Keefer, EE4:Aug 74:997:10708
Soil-Structure Interaction -- Opening Remarks, Ralph B. Peck, PES:73:III-249
Some Historical Statistics Related to Future Standards, Paul M. Berthouex, EE2:Apr 74:423:10468
Statewide Management -- What Does the Future Hold?, Frank A. Butrico and James B. Coulter, CWFE:Mar 71:93
Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366
Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436
STOL Passenger Demand in Underdeveloped Areas, Jason C. Yu, TE3:Aug 71:475:8298
Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
Systematically Analyzing Transportation Alternatives, Marvin L. Manheim and Earl R. Ruiter, UTI:71:207
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4:Nov 72:799:9362
Traffic Analysis for Airport Asphaltic Pavements, William A. Wild, Everett C. Carter, Jerome W. Hall and Matthew W. Witczak, TE4:Nov 74:873:10927
Transportation in Regional Plan for 1970's, W. John Hossack and J. Richard Hocking, TE4:Nov 70:633:7648

Trends in Engineering Education (Discussion), Richard M. Collins, CEE:Feb 74:2-336
Use of Decision Theory in Reservoir Operation, Samuel O. Russell, HY6:June 74:809:10586
Water Quality Models Using the Box-Jenkins Method, Peter M. Huck and Grahame J. Farquhar, EE3:June 74:733:10629
Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040
Wave Forecasting for the West Coast of India, Jade Dattatri and P. S. Renukaradhya, WW3:Aug 71:505:8303
Wave Prediction, Tim P. Barnett, PITO:74:11
West Virginia Commercial Air Trip Generations, Dennis C. Judycki, Frederick J. Wegmann and Everett C. Carter, TE2:May 70:185:7281
What's Ahead in Subsurface Exploration (Closing Remarks), Madan M. Singh, EFSE:Aug 74:387

Foreign Aid

Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084

Foreign Engineering

Artificial Ground-Water Recharge by Means of Wells in Israel, Yoav Harpaz, HY12:Dec 71:1947:8579
Bridge To Europe, Laurence E. Rohter, CE:Mar 73:61
The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66
Commentary, Erwin Abonyi, CEWAU:74:248
Community Service and Urban Problems: Can Civil Engineers Make a Contribution?, Maynard Charles Nugent, CE:Jan 70:53
Competitive Bidding on Foreign Work, E. Montford Fucik, PP1:Oct 71:121:8456
Construction Planning in South East Asia, Omar E. Rood, Jr. and John L. Richards, CO2:Sept 72:331:9217
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Exporting Expertise -- Introduction, M. D. Morris, CEWAU:74:225
Foreign Service, E. C. Kobs, PP1:July 69:79:6703
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
Opening Remarks, E. Montford Fucik, ECCD:72:395
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, CEWAU:74:227
Overseas Work and the Smaller Consulting Engineering Firm, Stephen M. Olko, CEWAU:74:252
Reinforced Earth Steel Retaining Walls Used on High Steep Side Slopes in France, Henri Vidal, CE:Feb 70:72
Dsc, Request for Technical Publications, Marcelo Fernandes Cascione, CE:Aug 72:64
Sports Palace for 1968 Olympic Games, D. R. Fernandez, CE:Oct 69:45
Summary of Session V -- Foreign Practices in Concrete Dam Construction, James E. Bennett, ECCD:72:477
Upgrading Overseas Construction Contracts, Gordon L. Williams, CE:Dec 70:51

Foreign Projects

International Abstracts Section, Joseph M. DeSalvo, Chmn., SM3:May 70:1091:7294
International Abstracts Section, Joseph M. DeSalvo, Chmn., SM4:July 70:1505:7428
International Abstracts Section, Joseph M. DeSalvo, Chmn., SM6:Nov 70:2197:7665
International Abstracts Section, Committee on Information Retrieval, Joseph M. DeSalvo, Chmn., SA8:Aug 71:1145:8341
International Abstracts Selection, Committee on Information Retrieval, Joseph M. DeSalvo, Chmn., SM1:Jan 71:313:7848
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276

Forest Fires

Fire in Vegetation Management: Its Effects on Soil, L. F. DeBano and Raymond M. Rice, IAWM:72:327
Watershed Behavior After Forest Fire in Washington, J. D. Helvey, IR73:Aug 73:403
Weather Modification for Alaska Fire Control, James W. Franks, OIDS:72:423

Forest Land

Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129

Forest Management

Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73:793:9748
Effects of Forest Management on Stream Temperature, George W. Brown, IAWM:72:93
The Hydrology and Stability of Cutover Slopes, Donald H. Gray and R. Peter Brenner, IAWM:72:295

Forestry

Effect Of Cultural Practices On Water Resources, Cortland E. Young, SEA:70:77
Farming, Forestry, and Water Quality, Theodore C. Byerly, WQEF:Mar 70:115
The Hydrology and Stability of Cutover Slopes, Donald H. Gray and R. Peter Brenner, IAWM:72:295

Forests

Effects of Deforestation on Water Quality, Gene E. Likens, IAWM:72:133
Notes on Trees and Tree Planting, Hans F. Bell, CE:July 73:77

Formations

Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247

Forms (Paper)

Model Form of 'Notice to Bidders', Woodrow W. Wilson, Chmn., CO3:Sept 74:373:10818

Formulas

The Other Side of "The Highway Explosion", Carlton C. Robinson, CE:Feb 71:47

Formwork (Construction)

Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814
Concrete Dam Construction Practices, Marcello Garavaglia, ECCD:72:467
Concrete Formwork for Washington, D.C. Metro, John J. Bodziuch, CE:July 74:76
Construction Innovations at Dworshak Dam, Edward E. Hershberger, CO3:Sept 74:303:10793
Design and Construction of Newport Bridge, Alfred Hedefine and Herbert M. Mandel, ST11:Nov 71:2635:8529
Elastic Analysis of Frameworks with Elastic Connections, Edgar Lightfoot and Andrew P. Le Messurier, ST6:June 74:1297:10632
Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62
Falsework Failures; Can They be Prevented?, Arthur L. Elliott, CE:Oct 73:74
Forms for Concrete Dams, Art E. Freyre, ECCD:72:265
Hardinge Bridge Span Repair, Amitabha Ghosal, Jagadish C. Ganguly, Himangsu K. Banerjee and Mahesh P. Kapoor, CO4:Dec 74:631:11034
Milwaukee Boosts 600 Ft Steel Arch, Joseph H. Looper and Robert W. Anzia, CE:Jan 74:62
Planning and Construction of an Ellipsoidal Dome, Joseph F. West, CO2:Oct 68:113:6129
Progress Model for Construction Activity, Robert I. Carr, Thomas O. Brightman and Franklin B. Johnson, CO1:Mar 74:59:10428
Revetment Construction by Fabriform Process, Bruce A. Lamberton, CO1:July 69:49:6677

Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096

Wood Design Criteria for Concrete Formwork, King Royer, CO2:Sept 67:13:5432

Fortran

Fortran-Hydro, Jacques W. Delleur and Gerrit H. Toebes, HY6:Nov 69:1993:6901

Fossil Fuels

Design and Construction Features — Greenwood Unit One, Satyen M. Guha-Biswas, EPCE:Aug 74:279

Response of Suspended Boilers to Earthquake Motions, James C. Anderson, Ramachandran Srinivasan and Robert J. Small, EPCE:Aug 74:363

Fouling

Analysis of Inner Plant Passage of Estuarine Biota, Allan D. Beck and Don C. Miller, EPCE:Aug 74:199

Anti-Fouling System By Electrolysis Of Sea Water, Toru Yoshii, Kenji Ueda and Tsutomu Horiguchi, CEO-II:70:1045

Fouling Prevention

Anti-Fouling System By Electrolysis Of Sea Water, Toru Yoshii, Kenji Ueda and Tsutomu Horiguchi, CEO-II:70:1045

Foundation Failure

Bridge Foundation Behavior in Alaska Earthquake, Grant A. Ross, H. Bolton Seed and Ralph R. Migliaccio, SM4:July 69:1007:6664

Foundation Construction Problems at Corps of Engineers Projects, Paul R. Fisher, John C. Bowman, Jr. and Benjamin I. Kelly, Jr., EFFD:Mar 74:121

Foundation Investigations

Elastic-Plastic Foundation Model for Punch-Shear Failure, Warren J. Rhines, SM3:May 69:819:6560

New Design Procedure for Stability of Soft Clays, Charles C. Ladd and Roger Foott, GT7:July 74:763:10664

Sample Approaches to Optimum Use of Marginal Lands, William W. Moore and Nicholas Chryssafopoulos, SM3:Mar 72:243:8789

Subsurface Investigation for Design and Construction of Buildings: Part II, William F. Swiger, Chmn., SM6:June 72:557:8944

Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV, William F. Swiger, Chmn., SM7:July 72:749:9070

Subsurface Investigation for Design and Construction of Foundations of Buildings: Appendices A and B, William F. Swiger, Chmn., SM8:Aug 72:771:9103

Subsurface Investigations for Design and Construction of Foundations of Buildings: Part I, William F. Swiger, Chmn., SM5:May 72:481:8917

Foundations

Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270

Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE1:Feb 72:37:8699

The Allowable Settlement and the Design of Foundations, Fernando Emmanuel Barata, 4PCSM:71:II197

Analysis and Behaviour of a Concrete Cutoff Wall (In Spanish), Jesus Alberro A., 4PCSM:71:II275

Analysis and Design of Tower Foundations, Richard L. Wiggins, PO1:Mar 69:77:6469

Analysis of Footing Subjected to Biaxial Bendine, German R. Gurfinkel, ST6:June 70:1049:7329

Analysis of Observed Embankment Performance in Terms of Effective Stress, Koichi Akai, Masahiko Komatsu and Masanari Tominaga, PES:72:I-341

Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391:9740

Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480

Applications of Limit Plasticity in Soil Mechanics, W. D. Liam Finn, SM5:Sept 67:101:5424

Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243

Axisymmetric Stress Wave Propagation in Sand, Richard A. Wetzel and Eben Vey, SM5:Oct 70:1763:7539

Basic Response Fuctions for Elastic Foundations, Anestis S. Veletsos and Branislav Verbic, EM2:Apr 74:189:10483

Bayonne River Bridge, Claude Bourgeois, CE:June 69:43

Bearing Capacity of Footings on Anisotropic Soils, Annapareddy Siva Reddy and Ramanathan J. Srinivasan, SM6:Nov 70:1967:7677

Bearing Capacity of Foundation on Sand, Assad Abdul-Baki and Lewis A. Beik, SM2:Mar 70:545:7158

Bearing Capacity Theory From Experimental Results, A. Verghese Chummar, SM12:Dec 72:1311:9411

Behavior of Bored Piles in Sand, Fadlo T. Touma and Lymon C. Reese, GT7:July 74:749:10651

Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626

Behavior of Laterally Loaded Piles: I-Single Piles, Harry G. Poulos, SM5:May 71:711:8092

Behavior of Laterally Loaded Piles: II-Pile Groups, Harry G. Poulos, SM5:May 71:733:8093

Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837

Behavior of Square Tanks on Elastic Foundations, John Duncan Davies and John Edward Long, EM3:June 68:753:5985

Book Review: Drilled Pier Foundations, Joseph M. DeSalvo, CE:Mar 73:40

Boundary Effects on Stability of Structures, Amrik S. Chawla, HY9:Sept 72:1557:9199

Braced Excavations, T. William Lambe and Edmund K. Turner, LS:70:149

Bridge Design Considering Scour and Risk, Emmett M. Laursen, TE2:May 70:149:7262

Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812

Buckling of Continuously Supported Beams, Arnold D. Kerr, EM1:Feb 69:247:6422

Buckling of Fully and Partially Embedded Piles, Annapareddy Siva Reddy and Arun J. Valsangkar, SM6:Nov 70:1951:7688

Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69

The Business and Practice of Foundation Engineering in Venezuela, Gustavo Perez Guerra, 4PCSM:71:II379

Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826

Caisson Construction Problems and Correction in Chicago, Clyde N. Baker, Jr. and Fazlur R. Khan, SM2:Feb 71:417:7934

Calculated and Observed Vibration Amplitudes, Peter J. Moore, SM1:Jan 71:141:7789

Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175

Circular Discontinuously Braced Excavation (In Spanish), Andres Perez M., 4PCSM:71:II203

Compared Experiences with the S.P.T. (In Spanish), C. M. Arce, F. L. Torres and H. J. Vercelli, 4PCSM:71:II95

Construction of Deep Foundations, William F. Swiger, PES:73:III-207

Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661

Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421

Current Application of Limit State Philosophy -- State-of-Art Report No. 1, Andre Paduart, TB:73:III-26-859

Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268

Data Reduction from Nonlinear Response Curves, Milos Novak, EM4:Aug 71:1187:8300

Deep Foundations - Piles and Caissons, State-of-Art Report 4A, G. M. Cornfield, TB:73:Ia-11-925

Deflections of Shallow Pier Foundations, Donald C. Slack and John N. Walker, SM4:July 70:1143:7391

Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821

Design and Performance of Deep Foundations, Bramlette McClelland, PES:73:II-111

Design and Performance of Deep Foundations -- Reporter's Summary, Pablo Girault, PES:73:III-211

Design Construction and Performance of Cellular Cofferdams, Yves Lacroix, Melvin I. Esrig and Ulrich Luscher, LS:70:271

Design, Construction and Performance of Sesquile Dam, Tomas Shuk, Ricardo Cajiao and Jesus M. Sierra, SM1:Jan 70:177:6996

Design Criteria for Turbine-Generator Pedestals, Asadour H. Hadjian, PO1:Jan 70:1:6991

Design of Compensated Foundations, State-of-Art Report 1, Leonardo Zeevaert, TB:73:Ia-11-853

Design of Containment Base Mats, Anil K. Kar, SDNPF:Dec 73:323

Design of Cylindrical Concrete Water Tanks, Harvey C. Olander, ST5:May 70:947:7303

Design Of Earth Retaining Structures For Dynamic Loads, H. Bolton Seed and Robert V. Whitman, LS:70:103

Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009

Design of Steel Transmission Pole Structures, Gene M. Wilhoite, ST12:Dec 74:2449:11009

Design of the South Island for the Second Hampton Roads Crossing, David Rafaeli, PES:72:I-361

Design Procedures for Dynamically Loaded Foundations, R. V. Richard, SM6:Nov 67:169:5569

Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131

Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838

Difficulties In Prediction Of Horizontal Deformations Of Foundations, Harry G. Poulos, TN: SM8:Aug. 72:843:9085

Distribution of Wind Loads to Soils, State-of-Art Report 2, Salvatore V. DeSimone, TB:73:Ia-11-881

Dynamic Influences on Foundation Calculations for Tower Shaped Structures, Roman Ciesielski and Janus Kawecki, TB:73:Ia-11-999

Dynamic LoadingP, Elio E. D'Appolonia, PISST:71:141

Dynamic Loadings, Elio E. D'Appolonia, SM1:Jan 70:49:7010

Dynamic Prestraining of Dry Sand, Vincent P. Drnevich and Frank E. Richart, Jr., SM2:Mar 70:453:7160

Dynamic Response of Circular Footings, Juan Enrique Luco and Russell A. Westmann, EM5:Oct 71:1381:8416

Dynamic Response of Embedded Machine Foundations, Kenneth H. Stokoe, II and Frank E. Richart, Jr., GT4:Apr 74:427:10499

Dynamic Soil-Structure Interaction, Mauricio A. Sarrazin, ST7:July 72:1525:9026

Dynamic Soil-Structure Interaction, Robert V. Whitman, TB:73:Ib-6-310

Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:I237

Effect of Foundation Rotation, D. Dicke, TB:73:III-23-621

Effects of Foundation Construction on Nearby Structures, David J. D'Appolonia, 4PCSM:71:I189

Effects of Foundations on Adjacent Structures, State-of-Art Report 3, Endre Horvat and Cornelius van der Veen, TB:73:Ia-11-905

Elastic Foundation Representation of Continuum, David Q. Fletcher and Leonard R. Herrmann, EM1:Feb 71:95:7932

Embankment Construction On Yielding Sea Bottom, Aris C. Stamatopoulos and Panaghiotis C. Kotzias, SM7:July 72:727:9066

Embankments on Soft Ground, Laurits Bjerrum, PES:73:II-1

Embankments on Soft Ground -- Reporter's Summary, William H. Perloff, PES:73:III-49

End Bearing and Skin Friction Resistance of Piles, Bengt B. Broms and Lars Hellman, SM2:Mar 68:421:5846

End Effects in Models for Seepage Below Weirs, S. Muthukumaran and V. C. Kulandaiswamy, HY3:Mar 72:541:8794

Engineer's Notebook: Effect Of Point Surcharge On Retaining Walls, Fred C. Teitgen and David R. Fiedler, CE:Nov 73:82

Evaluating Foundation Seepage Problems, Ernest L. Dodson, IMROD:Sept 73:609

Excavations and Deep Foundations, T. D. Dismuke, TB:73:Ia-11-1014

Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, TN: SM9:Sept 72:987:9161

Experience in Teaching Engineering Judgment by Case Histories in Foundation Engineering, Ralph B. Peck and Herbert O. Ireland, CEE:Feb 74:1-187

Experimental Behavior of Downdrag in Deep Foundations, Robert M. Koerner, TN: SM2:Feb 71:515:7860

Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172

Experiments in Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, SM11:Nov 73:957:10161

Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127

Financial Tools for a Geotechnical Consulting Firm, Roy T. Sheehey, 4PCSM:71:II345

Finite Dynamic Model for Infinite Media, John Lysmer and Roger L. Kuhlemeyer, EM4:Aug 69:859:6719

Finite Element Analyses of Port Allen Lock, James M. Duncan and Gerald W. Clough, SM8:Aug 71:1053:8317

Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095

Finite Element on Elastic Foundation, Henry T.Y. Yang, ST10:Oct 70:2083:7604

First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57

Floating Foundations for Control of Settlement, David J. D'Appolonia and T. William Lambe, SM6:June 71:899:8215

Footblock Design, Weldon S. Booth, CE:Aug 74:59

Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10:Oct 72:995:9303

Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269

Foundation Compliance Effects on Earthquake Response Spectra, Alberto Castellani, SM4:July 70:1335:7425

Foundation Conditions, Wayne A. Dunlap and Louis J. Thompson, PITO:74:29

Foundation Construction on Compacted Structural Fill in the Washington, D.C. Area, James J. Schnabel, PES:72:I-1019

Foundation Design for Buildings on Soft Clay in Earthquake Zone, James E. Roberts and Edward Margason, CE:Feb 74:56

Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834

Foundation Design of the Waterford Nuclear Plant, Joseph L. Ehasz, Jr. and E. Radin, SDNPF:Dec 73:83

Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026

Foundation Design, Theme Report, William F. Swiger, TB:73:Ia-11-849

Foundation Failure, Jacob Feld, CE:June 73:89

Foundation Failure of the Vankleek Hill Tower Silo, Michael Bozozuk, PES:72:I-885
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
Foundations for Salem Nuclear Generating Station, Muzaffer Kehnemuyi, CE:May 70:52
Foundations of Existing Dams -- Seepage Control, James E. Ley, IMROD:Sept 73:584
Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
Foundation Study for Materials Test Structure, Melvin C. Hironaka and Raymond J. Smith, SM6: Nov 69:1431:6921
Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
French Laws and Regulations Regarding Dam Supervision and Inspection, Michel A. Carlier, IMROD:Sept 73:198
Generalized Analysis of Pile Foundations, Lymon C. Reese, Michael W. O'Neill and Robert E. Smith, SM1:Jan 70:235:7032
Geotechnical Considerations Of Lateral Stresses, David J. Henkel, LS:70:1
Grouting: Then, Now and Where, J. F. Daly, EFFD: Mar 74:57
Guide for Depth of Foundation Exploration, Ronald E. Smith, SM2:Mar 70:377:7120
Guide Specifications for Chemical Grouts, W. K. Seaman, SM2:Mar 68:345:5830
Heave and Lateral Movements Due to Pile Driving, D. Joseph Hagerty and Ralph B. Peck, SM11:Nov 71:1513:8497
High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985
The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41
Hydraulic Fills to Support Structural Loads, Robert V. Whitman, SM1:Jan 70:23:7009
Hydraulic Fills to Support Structural Loads, Robert V. Whitman, PISST:71:169
Hyperbolic Cooling Towers, Development and Practice, Paul Rogers and Eli W. Cohen, PO1:Jan 70:117:7030
Implementation of Foundation Design Criteria, Joseph L. Ehasz, Jr. and M. Temchin, SDNPF:Dec 73:99
Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
Influence of Soil Conditions on Building Damage Potential During Earthquakes, H. Bolton Seed and Izzat M. Idriss, ST2:Feb 71:639:7909
Initial Settlement of Structures on Clay, David J. D'Appolonia, Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438
In-place Treatment of Foundation Soils, James K. Mitchell, SM1:Jan 70:73:7035
In-Place Treatment of Foundation Soils, James K. Mitchell, PISST:71:93
An Instrumented Tied-Back Deep Excavation, Thomas K. Liu and John P. Dugan, Jr., PES:72:I-1323
Insulated and Improved Sub-grades for Eliminating Frost Heave, Edward P. Keiner, Jr., CE:Feb 69:38
The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72: 273:9242
International Abstracts Section, Joseph M. DeSalvo, Chmn., SM3:May 70:1091:7294
International Abstracts Section, Joseph M. DeSalvo, Chmn., SM4:July 70:1505:7428
International Abstracts Section, Joseph M. DeSalvo, Chmn., SM6:Nov 70:2197:7665
International Abstracts Selection, Committee on Information Retrieval, Joseph M. DeSalvo, Chmn., SM1:Jan 71:313:7848
Investigation of Spherical Shell Foundation, A. K. Sharma, TN: SM6:June 73:489:9815
The Kars (Ontario) Embankment Foundation, Gerald P. Raymond, PES:72:I-319
Keynote Address: The Performance of Earth Structures and Foundations, T. William Lambe, 4PCSM:72:III7
Khazzan Dubai No. 1: Pile Design and Installation, James A. Wees and Robert S. Chamberlin, SM10: Oct 71:1415:8439
Landslides and Foundation Design, Hsai-Yang Fang, TB:73:Ia-11-1012
Lateral and Rocking Vibration of Footings, Anestis S. Veletsos and Yau T. Wei, SM9:Sept 71:1227:8388
Lateral Load Tests on Piles-Arkansas River Project, Mahmood M. Alizadeh and Melvin T. Davisson, SM5:Sept 70:1583:7510
Lateral Pressures On Rigid Permanent Structures, James P. Gould, LS:70:219
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
Load Tests on Small Foundations in Soft Clay, Edward W. Brand, Chai Muktabhant and Anan Taechathummarak, PES:72:I-903
Long Prestressed Piles, E. W. Alley, CE:Apr 70:50
Lumped Parameter Beams Based on Impedance Methods, Richard D. Ellison, Elio E. D'Appolonia and Gerald R. Thiers, SM4:Apr 71:661:8052
Mat Foundation and Preload Fill, VA Hospital - Tampa, L. David Wheeless and George F. Sowers, PES:72:I-939
Methods of Estimating Lateral Loads And Deformations, Norbert R. Morgenstern and Zdenek Eisenstein, LS:70:51
Methods of Performing and Interpreting In Situ Shear Tests, Michael L. Haverland and Edward J. Slebir, RM13:72:107
Mixing-in-Place Soil and Portland Cement, James L. Sherard, SM6:Nov 69:1357:6909
Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603
Modal Damping for Soil-Structure Interaction, Nien-Chien Tsai, EM2:Apr 74:323:10490
Model for Machine-pile Foundation-soil System, Madhira Radha Madhav and N. S.V. Kameswara Rao, TN: SM1:Jan 71:295:7787
Model Investigations of Pile Groups in Sand, Andrzej F. Tejchman, SM2:Feb 73:199:9579
Model Study of Laterally Loaded Piles, Melvin T. Davisson and James R. Salley, SM5:Sept 70:1605: 7511
A New Approach to Soil-Structure Interaction Problems, Achyut V. Setlur, Jagannath K. Khanna and M. Valathur, SDNPF:Dec 73:139
Newtown Creek Docking Facilities, George Netch, CE:June 69:64
New York City Convention and Exhibition Center, Thomas F. Galvin, CEWAU:74:211
Nonlinear Parameters of Vibrating Foundations, O.M. Christof Ehrler, SM6:Nov 68:1199:6208
Numerical Analysis of Flexible Retaining Structures, T. Allan Haliburton, SM6:Nov 68:1233:6221
Old Hall Street Development -- Liverpool, Alastair J.M. Soane, TB:73:C-P-231
Penetration of Beam on Plastic Foundation, Robert J. Green, TN: EM6:Dec 71:1769:8559
Performance of Foundation for Altair Radar, Robert V. Whitman, Dirk R. Casagrande, Kjell Karlsrud and Richard M. Simon, SM1:Jan 71:1:7809
Performance of Four Foundations on End Bearing Piles, David J. D'Appolonia and T. William Lambe, SM1:Jan 71:77:7807
Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201: 9188
Performance of Two Mat Foundations on Boston Blue Clay, Salvatore V. DeSimone and James P. Gould, PES:72:I-953
Photoelastic Study of Beams on Elastic Foundations, August J. Durelli, Vincent J. Parks, Carson K.C. Mok and Han-Chow Lee, ST8:Aug 69:1713:6739
Pile Stability, Part 1 -- Elastic Soil, Peter J. Hoadley, GT74:June 74:225

Pile Stability, Part 2 -- Non-Elastic Soil, Peter J. Hoadley, GT74:June 74:245

Pile Tests-Arkansas River Project, Charles I. Mansur and Alfred H. Hunter, SM5:Sept 70:1545:7509

Planning and Desing of Tall Buildings, Lynn S. Beedle, Chmn. and Le-Wu Lu, Chmn., TB:74, 5200pp.

Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59:9844

Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579:8947

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64

Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56

The Practice of Foundation Engineering in Canada, Victor Milligan, 4PCSM:71:II355

The Practice of Foundation Engineering in the Commonwealth of Puerto Rico, Efrahim Murati, 4PCSM:71:II391

Prefabricated Highways, William Zuk, TE2:May 72:387:8895

Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489

Preloading for Heavy Industrial Installations, Panaghiotis C. Kotzias and Aris C. Stamatopoulos, SM6:Nov 69:1335:6902

Preloading for Heavy Industrial Installations, Panaghiotis C. Kotzias and Aris C. Stamatopoulos, PISST:71:321

Presplitting and Rockbolts Cut Costs at Stockton Dam, Charles R. Golder, CE:Jan 70:44

Problems in Design and Installation of Offshore Piles, Bramlette McClelland, John A. Focht, Jr. and William J. Emrich, SM6:Nov 69:1491:6913

Project Planning Game for Foundation Excavation, Tung Au and Ernest W. Parti, CO1:July 69:11:6646

Pullout Resistance of Anchors Buried in Sand, Kent A. Healy, TN: SM11:Nov 71:1615:8511

Purpose or Need for Grouting in the Treatment of Foundations, Judson P. Elston, IMROD:Sept 73:563

Rapid Construction - Design Considerations, Alfred L. Parme, RCCD:70:151

Rational Analysis of Raft Foundation, Stephen J. Hain and Ian K. Lee, GT7:July 74:843:10683

Recent Developments in Grouting for Deep Mines, Alfred C. Ackenheil and Murray T. Dougherty, SM1:Jan 70:251:7042

Reducing Negative Friction with Bitumen Slip Layers, Alphonsus I. M. Claessen and Endre Horvat, GT8:Aug 74:925:10764

Relaxation of Piles in Sand and Inorganic Silts, Nai C. Yang, SM2:Mar 70:395:7123

The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711

Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092

Response of Torsionally Excited Foundations, Anestis S. Veletsos and V. V. Damodaran Nair, TN: GT4:Apr 74:476:10454

Responses of Earth Dams to Traveling Seismic Waves, Mostafa Dibaj and Joseph Penzien, SM2:Mar 69:541:6453

Rock Mechanics Studies for Mossyrocky Arch Dam, David E. Kleiner and Richard C. Acker, PO1:Jan 71:11:7795

Role of Contract and Specifications in Foundations Construction, Max E. Greenberg, CO2:June 74:113:10607

Role of Specifications in Foundation Construction, Walter S. Douglas, TN: CO2:June 74:198:10570

Sample Approaches to Optimum Use of Marginal Lands, William W. Moore and Nicholas Chryssafopoulos, SM3:Mar 72:243:8789

Sand Movement Measurement Near Anchor Plates, Robert W. Carr and Thomas H. Hanna, TN: SM5:May 71:833:8087

Scale and Boundary Effects in Foundation Analysis, James Graham and John Gordon Stuart, SM11:Nov 71:1533:8510

Seasonal Deformation of 2-Mile Straight Line, Joseph J. Spranza and Amos M. Nur, SM12:Dec 71:1623:8586

Seepage Study Using Electrical Analog, Heinz Stefan and Johannes Meyer, HY2:Feb 70:411:7064

Seismic Motion of Buildings with Buried Foundations, Stephen A. Thau, Andrej Umek and Rouben Rostamian, EM5:Oct 74:919:10870

Settlement Control for Cosmotron Base, Jacob Feld, 4PCSM:71:II189

Settlement of a Large Mat on Sand, Joseph A. Fischer, James T. Dette and Harcharan Singh, PES:72:I-997

Settlement of Building on Deep Compressible Soil, Peter J. Moore and Graham K. Spencer, SM3:May 69:769:6547

Settlement Of Rectangular Foundation On Soil Layer, Jean-Pierre Giroud, TN: SM1:Jan 72:149:8618

Settlement of Spread Footings on Sand, David J. D'Appolonia, Elio E. D'Appolonia and Richard F. Brissette, SM3:May 68:735:5959

Settlement Problem Oriented Computer Language, Robert L. Schiffman, Robert V. Whitman and Jane C. Jordan, SM2:Mar 70:649:7178

Settlements of Steel Tanks Founded on Clays (In Spanish), O. A. Varde, E. Nunez, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II179

Shallow Foundations, Douglas C. Moorhouse, PES:73:II-71

Shallow Foundations -- Panel Presentation, Carl B. Crawford, PES:73:III-165

Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716

Sheet-Pile Analysis by Distribution Theory, Dafalla A. Turabi and Arpad Balla, SM1:Jan 68:291:5769

Sliding-Rocking Vibration Of Body On Elastic Medium, Robert T. Ratay, SM1:Jan 71:177:7849

Sloped Sheeting, Harry Schnabel, Jr., CE:Feb 71:48

Slurry-Trench Construction for Basement of World Trade Center, Martin S. Kapp, CE:Apr 69:36

Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220

Soil-Structure Interaction, Michele Belloni and Michele B. Jamiolkowski, TB:73:Ia-11-990

Soil-Structure Interaction for Tall Buildings, State-of-Art Report 5, John T. Christian, TB:73:Ia-11-967

Soil-Structure Interaction for Tall Buildings, John A. Focht, Jr., TB:73:Ia-11-1008

Soil-Structure Systems, Akbar R. Tamboli, TB:73:Ib-6-318

Sports Palace for 1968 Olympic Games, D. R. Fernandez, CE:Oct 69:45

Stability of Structures on Permeable Foundations, Satya P. Garg and Amrik S. Chawla, HY4:July 69:1095:6648

State of Predictive Art in Subsidence Engineering, Barry Voight and William G. Pariseau, SM2:Mar 70:721:7187

Stiffened Mats on Expansive Clay, Robert L. Lytton and Kirby T. Meyer, SM7:July 71:999:8265

Stiffness Coefficients for Embedded Footings, Gordon R. Johnson, Paul P. Christiano and Howard I. Epstein, EPCE:Aug 74:499

Stresses at Different Depths Below Loaded Area, N. S.V. Kameswara Rao and M. R. Maohav, TN: SM2:Mar 70:779:7117

Structural and Foundation Computer-Based Design, Richard F. Harig and Daniel J. McDermott, ST1:Jan 71:315:7843

Structural Systems of Tall Buildings with Core Structures, State-of-Art Report 8, Jiri Kozak, TB:73:Ia-3-537

Structural Timber Research at Forest Products Lab, Fred Werren, ST12:Dec 69:2891:6980

Structure And Foundation Interaction Theory, Ian K. Lee and Howard B. Harrison, ST2:Feb 70:177:7059

Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
Structure-ground Interaction in Earthquakes, Johann H. Rainer, EM5:Oct 71:1431:8422
Subsurface Investigation for Design and Construction of Buildings: Part II, William F. Swiger, Chmn., SM6:June 72:557:8944
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV, William F. Swiger, Chmn., SM7:July 72:749:9070
Subsurface Investigation for Design and Construction of Foundations of Buildings: Appendices A and B, William F. Swiger, Chmn., SM8:Aug 72:771:9103
Subsurface Investigations for Design and Construction of Foundations of Buildings: Part I, William F. Swiger, Chmn., SM5:May 72:481:8917
Summary of Workshop on Foundations, Melvin A. Jabara and Paul K. Bock, IMROD:Sept 73:541
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
Tests on Instrumented Piles, Ogeechee River Site, Aleksandar Sedmak Vesic, SM2:Mar 70:561:7170
Theoretical Bearing Capacity of Very Shallow Footings, Lawrence A. Larkin, SM6:Nov 68:1347:6258
Tiebacks for Bank of America Building Foundation Wall, Thomas D. Wosser and Robert D. Darragh, CE:Mar 70:65
Tied-Back Foundation Wall for Seattle First National Bank, William L. Shannon and Robert J. Strazer, CE:Mar 70:62
Tilting Foundations, Gerd F. Weissmann, SM1:Jan 72:49:8671
Tolerable Settlements of Steam Turbine-Generators, J. Ronald Sallen and Ralph B. Peck, PO2:Oct 69:227:6841
Torsional Vibration of Viscoelastic Foundations, Anestis S. Veletsos and V. V. Damodaran Nair, GT3:Mar 74:225:10415
Treated Wood Foundations for Houses, CE:Oct 73:41
Treatment of High Embankment Dam Foundations, Fred C. Walker and R. W. Bock, SM10:Oct 72:1099:9272
Uncertainty, Safety, and Decision in Soil Engineering, Tien H. Wu, GT3:Mar 74:329:10434
Underpinning Massive Structures, Charles E. Mergentime, CE:Mar 72:40
Unusual Foundation Developments and Corrective Action Taken, Doyle L. Christensen, EFFD:Mar 74:343
Use of Precision Gravity Survey to Determine Bedrock, John R. Sumner and John A. Burnett, GT1:Jan 74:53:10256
Variational Approach to Beams on Elastic Foundations, N. S. V. Kameswara Rao, Y. C. Das and M. Anandakrishnan, EM2:Apr 71:271:8034
Vertical Stress Chart for Rigid Circular Foundations, Alfreds R. Jumikis, TN: SM12:Dec 73:1196:10189
Vertical Stresses Due to Deep Foundations, Abraham Ellstein and Leonard Rapoport, 4PCSM:71:II243
Vertical Vibration of Embedded Footings, Milos Novak and Youpele O. Beredugo, SM12:Dec 72:1291:9412
Vibration of Noncircular Foundations, Yong S. Chae, SM6:Nov 69:1411:6918
Vibrations of Soils and Foundations, by F.E. Rickart, Jr., J.R. Hall, Jr., and R.D. Woods (Book Review), John A. Blume, CE:Nov 70:23
A View of the Practice of Foundation Engineering in the United States, Elio E. D'Appolonia and John C. Regan, 4PCSM:71:II365
Viscoelastic Plate on Poroelastic Foundation, Eugene L. Marvin, EM4:Apr 72:911:9133
Vogt Boundary for Finite Element Arch Dam Analysis, Gilbert A. Hartley, Gregory M. McNeice and Walter Stensch, ST1:Jan 74:51:10269
Volume Changes in Sands During Cyclic Loading, Marshall L. Silver and H. Bolton Seed, SM9:Sept 71:1171:8354
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Wave Diffraction by Rigid Foundations, Martin A. Salmon, TN: EM4:Aug 73:902:9898
When is Foundation Seepage Unsafe?, William A. Clevenger, IMROD:Sept 73:570
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91

Fourier Analysis
Fourier Analysis of Transient Wave System, Edward K. Noda, WW4:Nov 71:663:8535
Iterative Method for Solving Rectangular Plates, B. Sen, S. Sengupta and T. K. Nath, ST1:Jan 72:135:8644

Fourier Series
Field Analysis of Torsionless Bridge Grids, J. C. Smith and Donald L. Dean, ST9:Sept 73:1837:10031
Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326

Fourier Transformation
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
Earthquake Time Histories and Response Spectra, Robert H. Scanlan and Klaus Sachs, EM4:Aug 74:635:10703
Finite Spectrum Analyses of Wave Records, D. Lee Harris, WAVES:Sept 74:107
Numerical Fourier Transform in Random Vibration, Jann-Nan Yang and Masanobu Shinozuka, EM3:June 69:731:6629

Fracture Properties
Dynamic K_c Testing of Structural Steel, Ronald B. Madison and George R. Irwin, ST7:July 74:1331:10653
Fracture and Stress-Strain Relationship of Concrete Under Triaxial Compression, Ranga Palaniswamy and Surendra P. Shah, ST5:May 74:901:10547
Fracture Evaluation by the Borehole Logging Method, John I. Myung and R. W. Baltosser, RM13:72:31

Fractures
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48
Development of a Plastic Strain Energy Absorbing Pipe Whip Restraint Design, Gene A. Esswein, SDNPF:Dec 73:171
Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725
Fatigue and Fracture, Theme Report, A. A. van Douwen, TB:73:II-18-721
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Structural Analysis and Design of Pipe Whip Restraints, Frederick L. Moreadith, Garry J. Patterson, C. R. Angstadt and James F. Glova, SDNPF:Dec 73:201

Fractures (Materials)
An Analysis of the Pt. Pleasant Bridge Investigation, Charles F. Scheffey, STF:73:77
Designing to Prevent Fracture in Tall Buildings, State-of-Art Report 6, Stanley T. Rolfe and G. R. Egan, TB:73:II-18-781
Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
Griffith Fracture Criterion and Concrete, Surendra P. Shah and Frederick J. McGarry, EM6:Dec 71:1663:8597
Lamellar Tearing of Welded Steel, CE:Dec 73:34
Point Pleasant Bridge Collapse-Conclusions of the Federal Study, Charles F. Scheffey, CE:July 71:41
What Designers Should Know About Fracture Toughness, Arthur L. Elliott, CE:Apr 74:70

Fracture Tests
Minor Principal Stress Measurements in Marine Clay with Hydraulic Fracture Tests, Michael Bozozuk, EFSE:Aug 74:333

Fracturing
Fracture Mechanism in Concrete: How Much do We Know?, Sandor Popovics, EM3:June 69:531:6604

Fragmentation
A Study on a New Concept of Thermal Hard Rock Crushing, Kuppusamy Thirumalai and John B. Cheung, RM14:73:527

Fragmented Materials
Safe Limit Loading of Folded Plate Structures, Morris N. Fialkow, ST10:Oct 72:2181:9249

Framed Structures
Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771
Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, A. Kondratiev, TB:73:II-14-157
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
Design and Analysis of Frames for Stability, Harold Switzky and Ping Chun Wang, ST4:Apr 69:695:6522
Dynamic Analysis of Inelastic Space Frames, Robert K. Wen and Fereydoon Farhoomand, EM5:Oct 70:667:7621
Earthquake-Resistant Reinforced-Concrete Buildings, Paul Rogers, CE:Aug 71:32
Field Solutions for Shear Grids, Donald L. Dean, ST12:Dec 71:2845:8594
Lateral Buckling of Braced Multistory Frames, John E. Goldberg, ST12:Dec 68:2963:6307
Reinforced Concrete Design for Strength and Deformability, Mir M. Ali and Donald E. Grierson, EM5:Oct 74:839:10859
Simply Supported Rectangular Double-Layered Grids, M. J.L. Hussey, A. I. Tarza and W. F.D. Theron, ST3:Mar 71:753:7954
Stability, Theme Report, George Winter, TB:73:II-16-409
Structural Aspects of the Lindheimer Astronomical Observatory, S. Hal Iyengar, CE:Mar 69:71
Tangent Stiffness Matrix for Space Frame Members, Semih S. Tezcan and Bijay C. Mahapatra, ST6:June 69:1257:6627

Frames
Additional Items Affecting Frame Strength, Egor P. Popov, TB:73:II-16-595
Analysis of Frames with Partial Connection Rigidity, Karl M. Romstad and Chittoor V. Subramanian, ST11:Nov 70:2283:7664
Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233:8643
Analysis of Unbraced Multistory Steel Rigid Frames, E. Whitman Wright and Edwin H. Gaylord, ST5:May 68:1143:5944
Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550
Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169
Approximate Modal Analysis Of Multistory One-Bay Frames, Alan A. Chapman and Gary C. Hart, TN: ST9:Sept 72:2137:9162
Automated Design of Frame Structures, Dag Kavlie and Johannes Moe, ST1:Jan 71:33:7823
Automated Design Of Statically Indeterminate Frames, Dag Kavlie and Johannes Moe, EC5:70:27
Beam-to-Column Connections in Non-Sway Frames, J. Witteveen and C. T.J. Bakker, TB:73:II-15-386
Behavior of Elastic-Plastic Frames, Alfred Korn and Theodore V. Galambos, ST5:May 68:1119:5942
Behavior of Laced and Battened Structural Members, Fung J. Lin, Ernst C. Glauser and Bruce G. Johnston, ST7:July 70:1377:7404
Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7: July 72:1361:9010
Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, Jacob Gluck and Menachem Gelbert, ST9:Sept 72:2031:9196
Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437
Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, A. Kondratiev, TB:73:II-14-157
Collapse Load Analysis of Frames Considering Axial Forces, M. Z. Cohn and Tariq Rafay, EM4:Aug 74:773:10757
Computer Analysis of Large Linear Frames, William D. Whetstone, ST11:Nov 69:2401:6897
Concrete Floor Systems, State-of-Art Report 6, Joseph P. Colaco, TB:73:III-21-237
Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105:9281
Cracking and Crack Control, Karl Kordina, TB:73:III-24-721
Creep, Cracking, and Shrinkage in Concrete Frame Structures, Lawrence G. Selna, ST12:Dec 69:2743:6949
Crestline Apartments, Grigalis & Associates, TB:73:C-P-458
Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749
Damage to Structures Due to Floor Shocks, Nelson M. Isada, ST2:Feb 71:561:7897
Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470
Dynamic Analysis of Multibay Multistory Frames, Masaaki Suko and Peter F. Adams, ST10:Oct 71:2519:8443
Dynamic Analysis of Staggered Truss Framing System, Raj P. Gupta and Subhash C. Goel, ST7: July 72:1475:9038
Dynamic Anlaysis Of Three-Dimensional Frames, Roger E. Scholl, TN: ST1:Jan 72:401:8619
Dynamic Stability Matrix for Planar Beams, James W. Gorzynski and William A. Thornton, TN: EM4: Aug 74:823:10692
Earthquake-proof Design Gives Rise to First Japanese Skyscrapere, Kiyoshi Muto, CE:Mar 71:49
Effect of Curvature on Nonlinear Frame Analyses, Mike E. James, Jr., Thomas J. Kozik and Jose E. Martinez, ST7:July 74:1451:10681
Efficient Frame Design for Stability Constraints, Karl M. Romstad and Karl H. Runge, TN: EM6:Dec 74:1286:107979
Elastic Analysis of Frameworks with Elastic Connections, Edgar Lightfoot and Andrew P. Le Messurier, ST6:June 74:1297:10632
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elastic Lateral Buckling of Portal Frames, Porpan Vacharajittiphan and Nicholas S. Trahair, ST5:May 73:821:9720
Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6: Dec 72:1547:9435
Elastic-Plastic Analysis of Frameworks, Glenn A. Morris and Steven J. Fenves, ST5:May 70:931:7293
Elastic-Plastic Instability of Multi-Story Frames, Sriramulu Vinnakota, TB:73:II-16-568
Elastic Stability of Symmetrical Single-Bay Frames, D. Melville Porter, TN: ST8:Aug 70:1857:7446
Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525
Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898

Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851

Experiments on Nonsway Structural Subassemblages, Eugene L. Sheninger and Le-Wu Lu, ST3:Mar 70:573:7159

Finite-Element Analysis of Nonlinear Structures, Robert H. Mallett and Pedro V. Marcal, ST9:Sept 68:2081:6115

Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353

Frame Analysis Considering Connection Shear Deformation, Wai F. Chen and David J. Fielding, TB:73:II-15-365

Framed Tube Structures for High-Rise Buildings, Alexander Coull and Nutan Kumar Subedi, ST8:Aug 71:2097:8301

Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343

Frame Vibrations by Consistent Mass Matrix, Fernando Venancio-Filho and Fernando Iguti, TN: ST9:Sept 73:1965:9968

Fully Plastic Analysis and Design, State-of-Art Report 4, A. L.L. Baker, TB:73:III-22-415

General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776

Geometrically Nonlinear Analysis by Stiffness Method, James A. Stricklin, Walter E. Haisler and Walter A. Von Riesemann, ST9:Sept 71:2299:8392

Geometric Nonlinearity in Nonprismatic Members, Cenap Oran, ST7:July 74:1473:10679

Grid Framework Method for Thick Plates in Flexure, Alan L. Yettram and Vincent McKinnon, TN: EM5:Oct 74:1073:10856

Half Frame Method, Bernardo J. Deschapelles, TB:73:II-16-591

Imposed Rotations Methods, State-of-Art Report 3, Jean Claude Maldague, TB:73:III-22-395

Improved Framework Method for Plates in Extension, Alan L. Yettram and Vincent McKinnon, TN: EM5:Oct 74:1067:10856

Inelastic Analysis of R/C Frame Structures, Shunsuke Otani, ST7:July 74:1433:10686

Inelastic Analysis of Reinforced Concrete Frames, Leone Corradi, Osvaldo De Donato and Giulio Maier, ST9:Sept 74:1925:10832

Inelastic Finite Deformation of Planar Frames, Raouf A. Ridha and Lawrence H. N. Lee, EM3:June 71:773:8198

Inelastic Stability of Unbraced Building Frames, Chitti Vijakkhana, Fumio Nishino and Seng-Lip Lee, ST3:Mar 74:645:10433

Interaction Between Frames and Precast Panel Walls, Atle Gjelsvik, ST2:Feb 74:405:10374

Laminated Timber Used in High-Rise Mill Building, L. Elvin Gower, CE:Dec 71:40

Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247

Lateral Loads in Asymmetric Multistory Structures, Arnold Winokur and Jacob Gluck, ST3:Mar 68:645:5842

Limit Analysis of Structures, Dusan Krajcinovic, ST9:Sept 69:1901:6778

Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301

Maximum Strength Elastic Structural Design, J. E. Taylor, EM3:June 69:653:6617

Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833

Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373

Models For Approximate Frame Analysis, Donald L. Dean and R. Richard Avent, TN: ST8:Aug 72:1903:9086

Nonlinear Analysis of Elastic Framed Structures, Jerome J. Connor, Robert D. Logcher and Shing-Ching Chan, ST6:June 68:1525:6011

Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10:Oct 73:2011:10091

Nonlinear Dynamic Analysis of Frames with Filler Panels, Garrison Kost, William Weaver, Jr. and Russell B. Barber, ST4:Apr 74:743:10481

Optimization of Steel-Building Components, State-of-Art Report 4, Jan Brodka and Josef Wilbik, TB:73:II-14-201

Parametric Matrices of Some Structural Members, Leon Ru-Liang Wang, ST8:Aug 70:1735:7494

Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72:1255:8937

Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255

Plastic Analysis of Transversely Loaded Frames, Neil Jackson, ST8:Aug 71:2047:8284

Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279

Plastic Design of Multistory Frames by Computer, George C. Driscoll, Jr., James O. Armacost, III and William C. Hansell, ST1:Jan 70:17:6995

Plastic Design of Multistory Steel Frames by Computer, Leroy Z. Emkin and William A. Litle, ST1:Nov 70:2373:7689

Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, M. R. Horne, TB:73:II-15-311

Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72:1769:9148

Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485

Preliminary Plastic Design of Tall Steel Frames, M. Bassam El Hafez and Graham H. Powell, ST9:Sept 74:1837:10796

Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906

Recent Developments in Plastic Design Practice, Lynn S. Beedle, Le-Wu Lu and Lee C. Lim, ST9:Sept 69:1911:6781

Reliability Analysis of Frame Structures, John D. Stevenson and Fred Moses, ST11:Nov 70:2409:7692

Research Regarding the Interaction of Shear Walls and Frames, Constantin N. Avram, Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318

Response of Rate-Sensitive Frames to Impulsive Loads, Nicholas Perrone, EM1:Feb 71:49:7890

Roof Assembled on Ground, Hoisted into Place, Werner Blum and Philip Wesler, CE:Jan 74:44

Seismic and Cyclonic Response of Continuous Frames, Gerald M. Smith, George C. Ernst and Mahendra Maheshwari, ST2:Feb 74:391:10355

Seismic Behavior of Multistory Braced Steel Frames, Subhash C. Goel and Robert D. Hanson, ST1:Jan 74:79:10288

Seismic Resistance of Concrete Frames with Grade 60 Reinforcement, Norman W. Hanson, ST6:June 71:1685:8180

Seismic Response of One-Story X-Braced Frames, Enrique Bazan and Emilio Rosenblueth, TN: ST2:Feb 74:489:10341

Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595

Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, ST3:Mar 74:687:10435

Some New Plastic Analysis and Design Techniques, Leroy Z. Emkin, TB:73:II-15-377

Stability of Framed Structures, Moshe F. Rubinstein and Richard M. Pickett, Jr., TN: EM2:Apr 73:429:9641

Stability of Frames and Shear Walls, Gert Konig, Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613

Stability of Overall Structural Systems, S. Hal Iyengar, TB:73:II-16-564

Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499

Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481

Stiffening Effect of Light Cladding, State-of-Art Report 4A, Eric R. Bryan and J. M. Davies, TB:73: II-17-643
Stiffness Center Method, Hayrettin Kardestuncer, ST7:July 74:1421:10673
Stochastic Frame Response Using Modal Truncation, Gary C. Hart, EM5:Oct 70:565:7596
Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72: 327:8675
Strength and Behavior of an Inelastic Hybrid Frame, Peter Arnold, Peter F. Adams and Le-Wu Lu, ST1: Jan 68:243:5759
Structural Steel Tiered Building Frames, State-of-Art Report 3, Anthony F. Nassetta, TB:73:Ia-3-465
Structural Systems of Tall Buildings with Core Structures, State-of-Art Report 8, Jiri Kozak, TB: 73:Ia-3-537
Structure And Foundation Interaction Theory, Ian K. Lee and Howard B. Harrison, ST2:Feb 70:177:7059
Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
Subassemblage Concept for Tall Frame Analysis, Graham H. Powell and M. Bassam El Hafez, ST8: Aug 74:1611:10739
Subassemblage Technique for Asymmetric Structures, William R. Hibbard and Peter F. Adams, ST11:Nov 73:2259:10132
A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, John P. Eberhard, TB:73:Ia-1-133
Tangent Stiffness in Plane Frames, Cenap Oran, ST6: June 73:973:9810
Tangent Stiffness in Space Frames, Cenap Oran, ST6: June 73:987:9813
Tangent Stiffness Matrix for Space Frame Members, Semih S. Tezcan and Bijay C. Mahapatra, ST6:June 69:1257:6627
Three-Dimensional Inelastic Subassemblage Design, John F. Lott, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1445:8108
Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193
Torsional-Flexural Buckling Effects in Portal Frames, David A. Nethercot, TN: ST9:Sept 74:1985:10775
Unbraced Multistory Steel Frames with Wind Load, E. Whitman Wright, ST1:Jan 72:185:8633
Uniqueness Theorem for Nonlinear Plane Frames, Om Dutt and Niels C. Lind, ST6:June 70:1061: 7330
The Use of Lightweight Alloys in Tall Buildings, Robert J. Brungraber, TB:73:Ia-3-623
Vibrational Characteristics of Linear Space Frames, William D. Whetstone and Charles E. Jones, ST10: Oct 69:2077:6821
Vibrations of Timoshenko Beams and Frameworks, Franklin Y. Cheng, ST3:Mar 70:551:7155
The Wainwright Building, John D. Randall, TB:73:C-P-352
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Weight Optimization of Plane Trusses, Samuel L. Lipson and Krishna M. Agrawal, ST5:May 74:865: 10521

Framing

Potrero Hill Slide and Correction, Travis Smith and Raymond H. Forsyth, SM3:Mar 71:541:8004

France

Causes of the Failure of the Malpasset Dam, Michel A. Carlier, EFFD:Mar 74:5
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
Electricite de France Experiences and Practice in Safety Inspections of Old and New Dams, A. J. Taillebot, IMROD:Sept 73:229
French Laws and Regulations Regarding Dam Supervision and Inspection, Michel A. Carlier, IMROD:Sept 73:198
High Rise Construction in France, State-of-Art Report 4B, Jean A. Roret, TB:73:Ia-4-741
Historical Steel Frame in France, Duiliu Sfintesco, TB:73:Ia-1-268
La Defense, Duiliu Sfintesco, TB:73:Ia-1-274
Opening Remarks, E. Montford Fucik, ECCD:72:395
Summary of Session V -- Foreign Practices in Concrete Dam Construction, James E. Bennett, ECCD:72:477
Tour Apogee, Skidmore, Owings & Merrill, TB:73: C-P-486
Trends in Design and Construction Practice for Concrete Dams, Jean M. Muller, ECCD:72:397

Free Surfaces

Approximate Solution for Unconfined Seepage, Chandrakant S. Desai, IR1:Mar 73:71:9607
Computer Analysis of Free Surface Well Flow, Willem F. Brutsaert, E. Allen Breitenbach and Daniel K. Sunada, IR3:Sept 71:405:8376
Unsteady Seepage Toward Sink Beneath Free Surface, Bruce W. Hunt, HY4:Apr 70:859:7202

Free Surfaces (Crystallography)

Field Solutions for Turbulent Seepage Flow, Alan K. Parkin, SM1:Jan 71:209:7794
Variational Principles for Flow in Porous Media, Shlomo P. Neuman and Paul A. Witherspoon, EM2:Apr 71:359:8023

Freeways

Criteria for Locating Major Streets and Urban Freeways, Edward M. Hall, Chmn., HY1:June 68: 21:5975
Criteria for Maintenance of Multilane Highways, Manual 53, prepared by the Committee on Construction, Maintenance, and Operation of Highways, Lloyd G. Byrd, Chmn., 1971, 19 pp.
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Ecological Impacts of Freeway Construction, Norbert Pointner, UT73:May 73:215
Four Freeway Fallacies, San Francisco Section, ASCE Highway Technical Division Task Force, Henry K. Evans, Chairman, CE:Mar 71:72
Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923
Freeway Planning: Advance Acquisition of Rights-Of-Way, CE:Nov 70:62
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096
Planning Implications of Urban and Rural Freeway Interchanges, Herman A.J. Kuhn, UP1:Apr 69:81: 6521
Traffic Volume Characteristics of Urban Freeways, Kenneth W. Heathington and Paul R. Tutt, TE1: Feb 71:105:7921
"Urban Freeway Surveillance and Control, The State of the Art" by Paul F. Everall (Book Review), Joseph F. Rice, CE:Mar 74:36
Use of Air Space Over Freeway Systems, Lyall A. Pardee, UP1:Apr 69:61:6519

Freeze Drying

Pore Sizes and Strength of Compacted Clay, Syed Ahmed, Charles William Lovell, Jr. and Sidney Diamond, GT4:Apr 74:407:10500

Freeze-Thaw Cycle

Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603: 9191

Freeze-Thaw Durability

Tidal Power Station on USSR's Arctic Coast, Lev B. Bernstein, CE:Apr 74:46

Freezing
Effect of Seepage Stream on Artificial Soil Freezing, Hadi T. Hashemi and Cedomir M. Sliepcevich, SM3:Mar 73:267:9630
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. Mohan Malhotra, EM2:Apr 74:305:10489
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37

Freezing Index
Estimation of Climatic Parameters for Frost Depth Prediction, Lyle K. Moulton and James H. Schaub, TE4:Nov 69:605:6872

Freight Cars
Railroad Freight Movement—Some New Concepts and Current Plans, George A. Sargent, TE2:May 74:475:10562

Freight Terminals
Dallas-Ft. Worth: World's Largest, Best Planned Airport, Eugene E. Dallaire, CE:July 73:53
Hump Tunnel in Penn Central Yard, T. F. de Capiteau, CE:May 69:59
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
Urban Commodity Flow - Suggested Research Projects, Warren B. Lovejoy, UP1:July 72:55:9047

Frequencies
Approximate Fundamental Frequencies for Chimneys, Kuang-Han Chu and Junesun Park, TN: PO2:Nov 73:441:10115
Characteristics of Rock Motions During Earthquakes, H. Bolton Seed, Izzat M. Idriss and Fred W. Kiefer, SM5:Sept 69:1199:6783
Earthquake Behavior of Reservoir-Dam Systems, Anil K. Chopra, EM6:Dec 68:1475:6297
Effects of Parameter Variations on Floor Response Spectra, L. K. Liu, C. L. Child and B. Nowotny, SDNPF:Dec 73:435
Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235
Frequencies of Beams with Elastic Warping Restraint, Paul P. Christiano and Larry Salmela, TN: ST6:June 71:1835:8164
Frequency Analysis of Complete Spherical Shells, Carl F. Long, EM3:June 69:505:6591
Fundamental Frequencies of Axially Moving Beams, Chien-Yung Wei and John Peddieson, Jr., TN: EM4:Aug 71:1343:8273
Membrane Analogy for Anisotropic Cable Networks, Bhupinder Pal Singh and Bhushan Lal Dhoopar, ST5:May 74:1053:10544
Nonsymmetric Modes of Complete Spherical Shells, John F. Gormley and William C. L. Hu, EM3:June 69:545:6606
Plotting Positions for Hydrologic Frequencies, John R. Stipp and George K. Young, Jr., TN: HY1:Jan 71:219:7824
Resonance in Pressurized Piping Systems, Mohammad Hanif Chaudhry, HY9:Sept 70:1819: 7525
Structure of Sea Wave Frequency Spectrum, S. S. Strekalov, V. F. Tsyploukhin and S. T. Massel, CE13:72:I-307
Two-Component Force-Balance, Avittathur Achyuthan and Viswanatha Sethuraman, TN: HY2: Feb 74:339:10340
Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092
Vibrations of Timoshenko Beams and Frameworks, Franklin Y. Cheng, ST3:Mar 70:551:7155

Frequency
Design Flood Frequency Curves, Stanley S. Butler, TN: HY3:Mar 71:479:7945
Effect of Period of Record on Flood Prediction, Peter Victorov, HY11:Nov 71:1853:8525
Frequency Analysis Of Thin-Walled Shear Walls, Arthur C. Heidebrecht and Ravinora K. Raina, EM2:Apr 71:239:8028
Fundamental Frequency of Shear Flexible Buildings, Michael J. O'Rourke, TN: EM5:Oct 74:1080:10856
Lake Michigan-Huron Stage-Frequency and Trend, R. Robinson Rowe, WW3:Aug 69:261:6716
Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691
Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807

Frequency Analysis
Frequency Analysis of Rainfall Intensities for Calcutta, V. Raman and M. Bandyopadhya, SA6: Dec 69:1013:6950

Frequency Curves
Low-Flow Criteria for Stream Standards, William C. Ray and William R. Walker, SA3:June 68:507:6005

Frequency Distribution
Central California Evapotranspiration Frequencies, William O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941
Finite Spectrum Analyses of Wave Records, D. Lee Harris, WAVES:Sept 74:107
Frequency of Potential Evapotranspiration Rates in Great Central Plains, Norman J. Rosenberg, IR2: June 72:203:8946
Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2: June 72:193:8940
Plant Performance Using Dissolved Oxygen Control, Joseph F. Roesler, EE5:Oct 74:1069:10841

Frequency Response
Frequency Response of a Shipborne Wave Recorder, H. M. van Aken and E. Bouws, WAVES:Sept 74: 281

Fresh Water
Effects of Farming—Urban Drainage on Fresh Water, C. W. Sheffield and William M. Bishop, IR73:Aug 73:691
Estuaries Need Freshwater, Charles R. Chapman, SEA:70:233
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649

Fresh Water Biology
Biological Implications Of Water Resource Management, Taylor R. Alexander, SEA:70:1

Friction
Bearing Capacities by Plasticity Theory, Hon-Yim Ko and Ronald F. Scott, SM1:Jan 73:25:9497
Bed-Material Transport and Bed Forms, Marion R. Carstens and Hilmi D. Altinbilek, HY5:May 72: 787:8890
Behavior of Continuous Crane Rails, Pavel J. Marek and J. Hartley Daniels, ST4:Apr 71:1081:8067
Behavior of Single Mineral Soils in Triaxial Shear, Robert M. Koerner, SM4:July 70:1373:7432
Bolted Connections with Varied Hole Diameters, Zaher Shoukry and William Thomas Haisch, ST6: June 70:1105:7349
Channel Friction and Slope Effects on Harbor Resonance, Richard Paul Shaw and Chi-Kwong Lai, WW3:Aug 74:205:10706
Drained Strength Characteristics of Sands, Kenneth L. Lee and H. Bolton Seed, SM6:Nov 67:117:5561
Effect of Particle Characteristics on Soil Strength, Robert M. Koerner, SM4:July 70:1221:7393
Effects of Helix Angle on Flow in Corrugated Pipes, Edward Silberman, HY11:Nov 70:2253:7685
Effects Of Pile Roughness On Wave Forces On Piles, Robert M. Sorensen and William J. Burton, CE0-II: 70:441
End Bearing and Skin Friction Resistance of Piles, Bengt B. Broms and Lars Hellman, SM2:Mar 68: 421:5846

Estimating Natural Gas Pipeline Friction Parameters, Michael A. Stoner and Michael A. Karnitz, TE3: Aug 74:757:10762
Experimental Investigation of Form of Bed-Roughness, Sat Dev Khanna, HY10:Oct 70:2029: 7623
Experimental Study of Frictional Properties of Faults, Fred A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863
Friction Factors and Bed Forms in Fluvial Channels, David Squarer, HY4:Apr 70:995:7245
Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes, Hemmat H. Safwat and Jaap v.d. Polder, HY11:Nov 73:1933:10158
Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9: Sept 71:1367:8373
Parameters for Bed Slip Point in Two-Phase Flow, Kenneth C. Wilson, HY10:Oct 71:1665:8426
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733
Recent Results in French Research on Reinforced Earth, Francois Schlosser and Nguyen-Thanh-Long, CO3:Sept 74:223:10800
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Vito A. Vanoni, Chmn., HY1:Jan 71:101:7786
Some Load Transfer Data on Caissons in Hard Chicago Clay, Robert D. Holtz and Clyde N. Baker, Jr., PES:72:I-1223
Surface Treatment of High-Strength Bolted Joints, George C. Brookhart, I. H. Siddiqi and Desi D. Vasarhelyi, ST3:Mar 68:671:5851

Friction Coefficient (Hydraulic)

Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215
Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227
Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes, Hemmat H. Safwat and Jaap v.d. Polder, HY11:Nov 73:1933:10158

Friction Coefficient (Mechanical)

Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45
Recent Results in French Research on Reinforced Earth, Francois Schlosser and Nguyen-Thanh-Long, CO3:Sept 74:223:10800
Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092
Review of Shearing Strength of Rockfill, Thomas M. Leps, SM4:July 70:1159:7394
Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73: 2123:10055
Tocks Island Project Spillway Rock Mechanics Studies, A. Depman, K. Dodds and D. Parrillo, RM13:72:443

Friction Drives

Enhanced Dispersion in Drag Reducing Open Channel Flow, Jerald P. Peterson, Walter E. Castro, Paul B. Zielinski and William F. Beckwith, HY6: June 74:773:10622

Friction Factor

Flexible Roughness in Open Channels, Nicholas Kouwen and Tharakkal E. Unny, HY5:May 73:713: 9723
Pore Fluid and Mechanical Behavior of Rock, F. H. Cornet, RM13:72:825
Resistance Studies on Smooth Open Channels, V. V. Jayaraman, HY5:May 70:1129:7266
Ripple and Dune Phases in a Narrowly Graded Sand, Christopher John Pratt and Kenneth V.H. Smith, HY5:May 72:859:8912

Friction Piles

Analysis of Friction Piles, George A. De Pauw, CE: Oct 74:60
Experiments in Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, SM11:Nov 73:957: 10161
Torque Shear Test For Cylindrical Friction Piles, Ulrich W. Stoll, CE:Apr 72:63

Friction Tests

Pullout Resistance of Anchors Buried in Sand, Kent A. Healy, TN: SM11:Nov 71:1615:8511

Fringe Benefits

Commentary, Allan H. Sample, CEWAU:74:275
Commentary, Keith A. Foucher, CEWAU:74:281
Consulting Firms Tackle Salary Guidelines, Kneeland A. Godfrey, Jr., CE:Aug 73:77
Engineer Firms Face Unionization, Larry N. Spiller, CE:Apr 71:49
Foreign Service, E. C. Kobs, PP1:July 69:79:6703
Guide for Public Agency Professional Development, Marble J. Hensley, PP1:Sept 70:55:7553
Pension Bill Nears Passage, CE:May 74:85
Retirement Starts Now, Ernest W. Fair, CE:Nov 73: 77
Superior Pension Plan Helps Attract Employees, Jack J. Schoustra and Richard S. Summerhays, CE:Jan 73:58

Frost Action

Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72: 361:8840
Estimation of Climatic Parameters for Frost Depth Prediction, Lyle K. Moulton and James H. Schaub, TE4:Nov 69:605:6872
Frost Heaving of Piles in Permafrost, James Allen and Robert W. Huck, CE:Apr 72:77

Frost Heave

Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009
Frost Heaving of Piles in Permafrost, James Allen and Robert W. Huck, CE:Apr 72:77

Frost Protection

Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009

Froude Number

Containing Oil Slicks in Flows of Finite Depth, David L. Wilkinson, CE13:72:III-2567
Modeling Gas Mixing within Steel Chimney Liners, James J. Markowsky, EPCE:Aug 74:137
Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680

Frozen Soils

In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72: 899:9202
Mechanical Properties of a Sand-Ice System, Roy R. Goughnour and Orlando B. Andersland, SM4:July 68:923:6030
Mechanical Properties of a Sand-Ice System, Roy R. Goughnour and Orlando B. Andersland, PISST:71: 287
Time-Dependent Strength Behavior of Frozen Soils, Orlando B. Andersland and Ilham AlNouri, SM4: July 70:1249:7406

Fuel Consumption
Automobile Energy Requirements, Eric Hirst, TE4: Nov 74:815:10909

Fuel Contamination
Some Biological Impacts of Converting Powerplants from Oil to Coal, Paul F. Berg, EPCE:Aug 74:623

Fuels
Automobile Energy Requirements, Eric Hirst, TE4: Nov 74:815:10909
St. Louis Power Plant to Burn City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Jan 71:56

Functional Analysis
Finite Element Method: A Galerkin Approach, Stanley G. Hutton and Donald L. Anderson, EM5: Oct 71:1503:8448
Finite Element Method: A Galerkin Approach, Stanley G. Hutton and Donald L. Anderson, EM5: Oct 71:1503:8448

Functions (Mathematics)
Area and Volume Errors in Reservoir Projects, Antonio M. Aguilar, SU2:Nov 71:287:8538
Effect of Surface Coatings and Exposure on Slip, James H. Lee, Colin O'Connor and John W. Fisher, ST11:Nov 69:2371:6889
Linearizing Weight Factors For Least-Squares Fitting, Llewellyn E. Jones, HY5:May 71:665:8089
Nonlinear Analysis Using Spline Functions, Chandrakant S. Desai, SM10:Oct 71:1461:8462
Numerical Fourier Transform in Random Vibration, Jann-Nan Yang and Masanobu Shinozuka, EM3: June 69:731:6629
Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939
Thick Rectangular Beams, Kashi T. Sundara Raja Iyengar, Chuen-Yuan Chandrashekhara and V. K. Sebastian, TN: EM6:Dec 74:1277:10979

Fungi
Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489: 9944

Furrow Irrigation
Automatic Cutback Furrow Irrigation System Design, Ion Nicolaescu and E. Gordon Kruse, IR3:Sept 71: 343:8358
Float Valve Provides Variable Flow Rates at Low Pressures, John L. Merriam, IR73:Aug 73:385
Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622
Optimal Design of Furrow Length of Surface Irrigation, I-pai Wu and Tung Liang, IR3:Sept 70: 319:7543
Trickle Irrigation Design Requirements for Row Crops, Dale A. Bucks, IR73:Aug 73:673

Furrows
Furrow Irrigation with Decreasing Inflow Rate, Radhey Lal and Amarendra C. Pandya, IR4:Dec 70:451:7748

Furrow Systems
Automatic Cutback Furrow Irrigation System Design, Ion Nicolaescu and E. Gordon Kruse, IR3:Sept 71: 343:8358

Future Planning (Projected)
ASCE's New President Outlines a Suggested Course, Oscar S. Bray, CE:Dec 71:38
Goals of the Conference, William J. Hedley, ABS:71: v
New Approaches to Urban Transportation Needs, Jack Kinstlinger, NA:Mar 71:197

Gabions
Experimental Study of Wave Transmission, Mohammed Sameh Nasser and John A. McCorquodale, WW4:Nov 74:279:10928
Gabions Used In California Flood Control, Fred R. Cline, (Deceased) and Edward Koehm, CE:Mar 74: 68

Gages
CERC Field Wave Gaging Program, Harold G. Peacock, WAVES:Sept 74:170
Development of a Shallow-Water Wave Direction Gage, R. J. Hallermeier and William R. James, WAVES:Sept 74:696
Results from the CERC Wave Measurement Program, Edward F. Thompson, WAVES:Sept 74: 836
Some Design Aspects of a Divided Gate Tower, W. L. Grigg, Robert E. Johnson and Rolf Kellerhals, PO2:Oct 67:1:5482
Wave Observations with Capacitance-Type Wave Gauge Array Installed on a Long Pier, Yoshito Tsuchiya and Masataka Yamaguchi, WAVES:Sept 74:689

Galvanized Materials
Bolted Joints Under Sustained Loading, Verl Lobb and Floyd Stoller, ST3:Mar 71:905:7996

Galvanizing
High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410

Game Theory
Bidding--Work Loading Game, Paul E. Torgersen, Richard M. Wyskida and Leonard S. Yarbrough, CO2:Oct 68:127:6141
Learning Games: The Transportation Planning Game, Martin C. Nizlek and Frederick J. Wegmann, TE1: Feb 74:41:10339
Metagame Analysis of Water Resources Conflicts, Keith W. Hipel, R. K. Ragade and Tharakkal E. Unny, HY10:Oct 74:1437:10861

Gaming Models
Learning Games: The Transportation Planning Game, Martin C. Nizlek and Frederick J. Wegmann, TE1: Feb 74:41:10339
Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253

Garages
Decentralized Solid Waste Collection Facilities, Robert M. Clark and Billy P. Helms, SA5:Oct 70: 1035:7594
New Concepts in Urban Parking, John G. Schoon and Herbert S. Levinson, TE3:Aug 74:611:10731
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728

Garbage
Advance in Refuse Management, Eugene E. Dallaire, CE:Aug 74:82

Gases
Gas Supersaturation Problem in the Columbia River, Peter B. Boyer, IRS:Sept 72:205
Sanitary Landfills: The Latest Thinking, CE:Mar 73: 69
Spillway Redesign Abates Gas Supersaturation in the Columbia River, Hugh A. Smith, Jr., CE:Sept 74:70

Gas Flow
Gas Transfer Kinetics of Pure Oxygen System, James A. Mueller, Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792

Gasification
Conversion of Organic Waste to Fuel, John L. Cox, Warrack G. Willson and Edward J. Hoffman, EE3: June 74:717:10579

Gas Injection

Mathematical Evaluation of Gaseous and Dry Heat Treatments, C. R. Stumbo, NSCD:71:469

Gas Pipelines

Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149

Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883

Gas Production

Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047

Gas Storage

Subsurface Environment—Private Property or Public Domain?, William R. Walker and William E. Cox, HY11:Nov 74:1699:10958

Gas Supply

Gas Transfer Kinetics of Pure Oxygen System, James A. Mueller, Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792

Gates

Discharge Facilities at Hells Canyon Dam, J. T. Gilchrist and D. E. Barclay, PO2:Nov 68:161:6230

Flow-Induced Vibration of Vertical-Lift Gate, J. David Hardwick, HY5:May 74:631:10546

High Head Gates and Valves in the United States, Cortland C. Lanning, Chmn., HY10:Oct 73:1727:10107

Mechanical Equipment Problems on Old Dams, Fred Engstrom, IMROD:Sept 73:440

Mechanical Structures for Farm Irrigation, Allan S. Humpherys, IR4:Dec 69:463:6944

Pressure Fluctuations in Reattaching Flow, Rangaswami Narayanan and Alan J. Reynolds, HY6:Nov 68:1383:6212

Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919

Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114

Solution of Flow Under Sluice Gate, Yong Kwun Chung, EM1:Feb 72:121:8744

Some Design Aspects of a Divided Gate Tower, W. L. Grigg, Robert E. Johnson and Rolf Kellerhals, PO2:Oct 67:1:5482

Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676

Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942

Two-Component Force-Balance, Avittathur Achyuthan and Viswanatha Sethuraman, TN: HY2: Feb 74:339:10340

Gate Valves

Design of Boundary Arch Dam, Jaroslav Pospisil and Michael D. Hayes, PO1:Jan 70:73:7012

Gelation

Selection of Chemical Grout for Mattmark Dam, Herbert H. Einstein and Gerold Schnitter, SM6: Nov 70:2007:7684

Generators

Mississippi Valley Mapping, Leslie B. Robison, SU1: May 71:103:8102

Wells Dam: Powerplant and Spillway Combined, James G. Patrick, Harris H. Burke, Robert T. Loder and Michael W. Erho, CE:Oct 70:61

Geodesy

Geodetic Computations by Electronic Computer, Gerald F. Clohecy, SU1:May 71:97:8105

Laser Multilateration, Theodore H. Wirtanen, SU1: Oct 69:81:6843

Mapping for the Pennsylvania Highways, Victor W. Anckaitis, SU2:Oct 67:103:5530

Three-Dimensional Forward and Inverse Computations, William E. Ball, Jr., SU2:Nov 72: 167:9361

Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63: 10030

Three-Dimensional Positioning—by Multilateration, William E. Ball, Jr., SU1:May 74:63:10524

Three-Dimensional Resection--A Vector Approach, William E. Ball, Jr., SU1:Sept 73:87:10007

Geodetic Surveys

Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383

Electronic Traverse Versus Triangulation, John O. Phillips, SU2:Oct 67:29:5491

Evaluation of Antarctic Star Observations, John C. Albright and James L. Clapp, SU2:Sept 68:81:6092

High Precision Levels with Automatic Instruments, Elmer F. Kulp, SU2:Sept 70:121:7514

Land Surveying and Civil Engineering -- Professionally Related, But Different, Kenneth S. Curtis and John G. McEntyre, CEE:Feb 74:1-134

Laser Multilateration, Theodore H. Wirtanen, SU1: Oct 69:81:6843

Modern Day Surveys for Highway Location and Design, Jon S. Beazley, SU1:Apr 70:11:7196

Short-range EDM: Big Boost for Surveyors, Eugene E. Dallaire, CE:Feb 71:69

Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532

The Survey Engineer - A Rare Species, Arthur J. McNair, SU1:Apr 70:37:7197

Geodimeters

Advancing Technology in Electronic Surveying, Charles G. Romaniello, SU2:Sept 70:287:7566

Geodetic Computations by Electronic Computer, Gerald F. Clohecy, SU1:May 71:97:8105

Geography

Survey of Geographic Base Files, George P. Leyland, SU2:Sept 70:201:7529

Geological Faults

Characteristics of Rock Motions During Earthquakes, H. Bolton Seed, Izzat M. Idriss and Fred W. Kiefer, SM5:Sept 69:1199:6783

Strain and Tilt Observations Near an Active Fault, Charles G. Bufe, RM13:72:685

Geological Surveys

The Bonanza Project--Remote Sensing for Mineral and Water Resources, R. G. Reeves, L. H. Jefferis, D. H. Knepper, Jr., R. W. Marrs and G. L. Raines, ESE:Apr 70:67

Financial Tools for a Geotechnical Consulting Firm, Roy T. Sheehey, 4PCSM:71:II345

Ground Truth: It's Role in Resource Assessment from Space, Donald T. Lauer and Don L. Olson, ESE:Apr 70:93

Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437

Resource Assessment with the Aid of Space Photography, Robert N. Colwell, ESE:Apr 70:45

Geologic Deposits

Foundation of Cerro de Oro Dam, Mexico, Raul J. Marsal and Aurelio Benassini, EFFD:Mar 74:249

Geologic Formations

Continuous Subsurface Profiling by Impulse Radar, Rexford M. Morey, EFSE:Aug 74:213

Engineering Geologist's Responsibilities in Dam Foundation Studies, Don U. Deere, EFFD:Mar 74: 417

Geotechnical Studies for La Angostura Project, Mexico, Raul J. Marsal, EFFD:Mar 74:425

Mattmark — A Dam Founded on Alluvial and Morainic Deposits, Bernhard E. Gilg, EFFD:Mar 74:215

Problems Encountered in Construction of Dam Foundations, R. W. Bock, W. G. Harber and M. Arai, EFFD:Mar 74:87

Geologic Investigations
Acoustical Holography as a Tool for Geologic Prediction, Ted O. Price, EFSE:Aug 74:172
The Allowable Settlement and the Design of Foundations, Fernando Emmanuel Barata, 4PCSM: 71:II197
Engineering Geologist's Responsibilities in Dam Foundation Studies, Don U. Deere, EFFD:Mar 74: 417
Exploration and Geologic Prediction for Underground Works, Lloyd B. Underwood, EFSE: Aug 74:65
Exploration for Soft Ground Tunnels — A New Approaach, Birger Schmidt, EFSE:Aug 74:84
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10: Oct 72:995:9303
Geomechanical Instrumentation in Mexico Tunnels, Derek F. Berry, URC:72:51
Geotechnical Studies for La Angostura Project, Mexico, Raul J. Marsal, EFFD:Mar 74:425
Highlights — Foundation Exploration and Design — Locks and Dam No.26 (Replacement), Bruce H. Moore, EFFD:Mar 74:11
Investigation of Earth Dam Foundations, John P. Bara, EFSE:Aug 74:381
Mattmark — A Dam Founded on Alluvial and Morainic Deposits, Bernhard E. Gilg, EFFD:Mar 74:215
Problems Encountered in Construction of Dam Foundations, R. W. Bock, W. G. Harber and M. Arai, EFFD:Mar 74:87
A Recommended Borehole Investigation System for Soft Ground, Stephen Alsup, EFSE:Aug 74:117
The Self-Boring Placement Method of Soil Characteristics Measurements, Francois Baguelin, Jean-Francois Jezequel and Alain LeMehaute, EFSE:Aug 74:312
Spillway Foundation Damage and Repairs, Andrew Eberhardt, EFFD:Mar 74:401
Subsurface Video Pulse Radars, David L. Moffatt, EFSE:Aug 74:195
Underground Excavation: Geologic Problems and Exploration Methods, Andrew H. Merritt, EFSE: Aug 74:56

Geology
Book Review: Cities and Geology, Richard E. Gray, CE:Oct 73:106
Book Review: Focus On Environmental Geology -- A Collection Of Case Histories And Readings From Original Sources, Richard E. Gray, CE:Aug 73:28
Control of Natural Chloride, Arkansas-Red Rivers, Myron W. DeGeer and Robert J. Hensley, WW4: Nov 71:631:8494
Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
Geologic Considerations in Shotcrete Design, Edward J. Cording, SUSS:July 73:175
Graphical Stability Analysis of Slopes in Jointed Rock, Klaus W. John, SM2:Mar 68:497:5865
Hydrology and Geology of Honolulu Aquifer, David K. Todd and Charles F. Meyer, HY2:Feb 71:233: 7910
Instrumentation to Monitor Behavior of Shotcrete Support Systems, Ronald A. Jones and J. W. Mahar, SUSS:July 73:297
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Reconnaissance for Dam Sites in Remote Areas, Vernon E. Swanson, SU1:Apr 70:97:7244
Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35
Rock Mechanics Education -- A Panel Discussion, H. Douglas Dahl, K. E. Gray and Leonard Obert, RM14:73:747
Rock Mechanics Studies for Mossyrocky Arch Dam, David E. Kleiner and Richard C. Acker, PO1:Jan 71:11:7795
Sedimentation Engineering, Chapter II: Sediment Transportation Mechanics: Q. Genetic Classification of Valley Sediment Deposits, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:43: 7815
Seismic Resistant Design of Safety Class Structures and Equipment, Chang Chen, SDNPF:Dec 73:459
Summary of Workshop B - Shotcrete Design, P. L. Boileau, SUSS:July 73:232
Treatment of High Embankment Dam Foundations, Fred C. Walker and R. W. Bock, SM10:Oct 72: 1099:9272
Underground Excavation: Geologic Problems and Exploration Methods, Andrew H. Merritt, EFSE: Aug 74:56
Use of Precision Gravity Survey to Determine Bedrock, John R. Sumner and John A. Burnett, GT1:Jan 74:53:10256

Geometric Forms
Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914

Geometric Geodesy
Surveyor 1984, B. Austin Barry, EI3:July 74:235: 10658

Geometric Shapes
Sydney Opera House, O. N. Arup and Gerd J. Zunz, CE:Dec 71:50
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Geometry
Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795
Cost Optimization of Structural Roof System, Samuel L. Lipson and Alan D. Russell, ST8:Aug 71:2057: 8291
Geometric and Frictional Effects on Sudden Releases, Shih-Tun Su and Albert H. Barnes, HY11:Nov 70:2185:7650
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Theoretical Analysis of Interchange Composition, Ken-ichi Takebe, TE:Aug 69:483:6737

Geomorphology
Determining Streamflows from Geomorphic Parameters, John F. Orsborn, IR4:Dec 74:455: 10986
Study of Topolobampo's Bay, Mexico, Entrance, Hector Lopez Gutierrez and Daniel Cervantes Castro, 12CEC:71:1151

Geophysical Prospecting
Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89
In Situ Shear Wave Velocity by Cross-Hole Method, Kenneth H. Stokoe, II and Richard D. Woods, SM5:May 72:443:8904

Geophysical Surveys
Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89
Engineering Applications of Electrical Geophysical Methods, George V. Keller, EFSE:Aug 74:128
Investigation by Geophysical and Instrumentation, Gordon W. Prescott, IMROD:Sept 73:558
Investigation of Earth Dam Foundations, John P. Bara, EFSE:Aug 74:381

New Applications of Seismic Investigations to Engineering Problems, Phillip Romig, EFSE:Aug 74:144

An Overview of Horizontal-Borehole Geophysical Techniques, Llewellyn A. Rubin, EFSE:Aug 74:233

Performance Record of Walter F. George Lock and Dam, Robert L. Crisp, Jr., PES:72:I-691

A Recommended Borehole Investigation System for Soft Ground, Stephen Alsup, EFSE:Aug 74:117

Subsurface Explorations in the Coal Mining Industry, Alphonse C. Van Besien, EFSE:Aug 74:383

Summary of Workshop on Foundations, Melvin A. Jabara and Paul K. Bock, IMROD:Sept 73:541

Geophysics

Geophysics in Groundwater Exploration, Tsvi Meidav and Jerome S. Nelson, OIDS:72:257

Geopotential

Gravity and Gradients of Long Tunnels, H. S. Williams, SU1:Oct 69:11:6815

Georgia

Nearshore Currents Southeastern Strait of Georgia, M. L. Schwartz, R. C. Fackler, E. A. Hoerauf, C. E. Larsen, K. L. Lingbloom and M. A. Short, CE13:72:III-2503

Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375:10013

Geostrophic Wind

Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483

Geotechnical Engineering

Aguada Blanca Rockfill Dam with Metal Facing, Piero Sembenelli and Marco Fagiolo, GT1:Jan 74:31:10270

Analysis of Pile-Supported Gravity Lock, Chandrakant S. Desai, Lawrence D. Johnson and Charles M. Hargett, GT9:Sept 74:1009:10789

An Approach to $\phi_m = 0$ Analysis for Stage Construction, Chitta R. Gangopadhyay, TN: GT6:June 74:699:10597

Bedrock Motions Computed from Surface Seismograms, Constantine N. Papadakis, Victor L. Streeter and E. Benjamin Wylie, GT10:Oct 74:1091:10853

Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89

Behavior of Bored Piles in Sand, Fadlo T. Touma and Lymon C. Reese, GT7:July 74:749:10651

Behavior of Compacted Soil in Tension, Abbanki V. Gopala Krishnayya, Zdenek Eisenstein and Norbert R. Morgenstern, GT9:Sept 74:1051:10828

Carbonate Cementation in Deep-Ocean Sediments, William E. Kelly, Vito A. Nacci, Mian C. Wang and Kenneth R. Demars, TN: GT3:Mar 74:383:10420

Centrifugal Method of Mixing Soil with Stabilizer, Nam P. Suh and R. S. Lee, GT3:Mar 74:295:10411

Classification of Argillaceous Soils and Rocks, Norbert R. Morgenstern and Kurt D. Eigenbrod, GT10:Oct 74:1137:10885

Consolidation Properties of Wilkinson Basin Soils, Peter T. Dzwilewski and Adrian F. Richards, TN: GT10:Oct 74:1175:10857

Differential Settlement of Buildings, Rebecca Grant, John T. Christian and Erik H. Vanmarcke, GT9:Sept 74:973:10802

Dynamic Passive Earth-Pressure Problem, Ali Sabzevari and Arsalan Ghahramani, GT1:Jan 74:15:10285

Dynamic Response of Embedded Machine Foundations, Kenneth H. Stokoe, II and Frank E. Richart, Jr., GT4:Apr 74:427:10499

Earthquake Induced Settlements in Saturated Sands, Kenneth L. Lee and Aurelio Albaisa, GT4:Apr 74:387:10496

Effect of Particle Characteristics on Wave Velocity, Raymond J. Krizek, Francis G. McLean and Max W. Giger, TN: GT1:Jan 74:89:10254

Embankment Instrumentation Tunnel Performance, Charles H. Dowding, T. William Lambe and L. Anthony Wolfskill, TN: GT5:May 74:567:10510

Environmental-Geotechnical Considerations in the Routing of EHV Transmission Lines, Alfred E. Caswell, Charles V. Nazare, Richard J. Berger and Joseph F. Torri, EPCE:Aug 74:587

Evaluation of Stress Cell Performance, Raymond J. Krizek, M. Hassan Farzin, Anwar E.Z. Wissa and R. Torrence Martin, GT12:Dec 74:1275:11030

Extended Use of Oedometer Test Data, Arnoldo J.L. Bolognesi, TN: GT9:Sept 74:1075:10774

Field Consolidation of High Ash Papermill Sludge, Robert P. Vallee and Orlando B. Andersland, GT3:Mar 74:309:10431

Finite Element Methods for the Nonlinear and Time-Dependent Analysis of Geotechnical Problems, Chin-Yung Chang, Keshavan Nair and Ram D. Singh, GT74:June 74:269

Finite Element Permafrost Thaw Settlement Model, Jon F. Sykes, William C. Lennox and Robin G. Charlwood, GT11:Nov 74:1185:10957

Geotechnical Investigations of the Aberfan Disaster (Book Reviews), H. Bolton Seed, CE:May 70:94

Holography—A New Tool for Soil Dynamics, Richard D. Woods, Norman E. Barnett and Rolf Sagesser, GT11:Nov 74:1231:10949

Improved Compression Test Technique for Soft Rock, Edwin T. Brown and Louis P. Gonano, TN: GT2:Feb 74:196:10310

Influence of Loading Rate on Rock Response, Dale E. Stephenson and George E. Triandafilidis, GT2:Feb 74:101:10367

In-situ Shear Test for Rock Fills, Surendra P. Jain and Ramesh C. Gupta, GT9:Sept 74:1031:10823

Mathematical Model of Single Pile, Noel J. Gardner and Roy Sage, TN: GT9:Sept 74:1081:10774

Measuring Pile Deflections With Inclinometer, Jai B. Kim and Robert J. Brungraber, TN: GT7:July 74:867:10641

Membrane Penetration in Triaxial Tests on Sands, Vegesna S. Raju and Sekanoor K. Sadasivan, TN: GT4:Apr 74:482:10454

New Concepts in Consolidation and Settlement Analysis, John Lowe, III, GT6:June 74:571:10623

New Design Procedure for Stability of Soft Clays, Charles C. Ladd and Roger Foott, GT7:July 74:763:10664

New Rheological Model for Soil Behavior, Fujiya Komamura and Rodney J. Huang, GT7:July 74:807:10675

Nonlinear Stress-Strain Formulation for Soils, Ross B. Corotis, M. Hassan Farzin and Raymond J. Krizek, GT9:Sept 74:993:10811

Nuclear Power Plant Siting on Deep Alluvium, Ronald F. Scott and Jack J. Schoustra, GT4:Apr 74:449:10497

Numerical Design-Analysis for Piles in Sands, Chandrakant S. Desai, GT6:June 74:613:10617

Performance of Tied-Back Walls in Clay, Gerald W. Clough and Yuet Tsui, GT12:Dec 74:1259:11028

Permeability of Cohesionless Soils, Abdelwahab M. Amer and Amin A. Awad, TN: GT12:Dec 74:1309:10981

Planning and Performing Compaction Grouting, James Warner and Douglas R. Brown, GT6:June 74:653:10606

Pore Sizes and Strength of Compacted Clay, Syed Ahmed, Charles William Lovell, Jr. and Sidney Diamond, GT4:Apr 74:407:10500

Probabilistic Analysis and Design of a Retained Wall, Kaare Hoeg and Ramesh P. Murarka, GT3:Mar 74:349:10436

Projectile Penetration of Elastic-Plastic Earth Media, Lewis Thigpen, GT3:Mar 74:279:10414

Rational Analysis of Raft Foundation, Stephen J. Hain and Ian K. Lee, GT7:July 74:843:10683

Reducing Negative Friction with Bitumen Slip Layers, Alphonsus I. M. Claessen and Endre Horvat, GT8:Aug 74:925:10764

Reinforcement and Stabilization of Soil by Vegetation, Donald H. Gray, TN: GT6:June 74:695:10597

Repeated Load Testing of a Granular Material, Stephen F. Brown, GT7:July 74:825:10684

Response of Torsionally Excited Foundations, Anestis S. Veletsos and V. V. Damodaran Nair, TN: GT4:Apr 74:476:10454

Retaining Wall Under Action of Accreted Backfill, Paul P. Christiano and Suradej Chuntranuluck, TN: GT4:Apr 74:471:10454

Review of Expansive Soils, Gerald J. Gromko, GT6: June 74:667:10609

Scale Effect for Shallow Footings on Dense Sand, Pierre A. Habib, TN: GT1:Jan 74:95:10254

Seismic Response by Variable Damping Finite Elements, Izzat M. Idriss, H. Bolton Seed and Norman Serff, GT1:Jan 74:1:10284

Seismic Shear Waves in Engineering, Harold M. Mooney, GT8:Aug 74:905:10745

Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, GT5:May 74:523:10553

Settlement of Pile Groups Bearing on Stiffer Strata, Harry G. Poulos and Neil S. Mattes, TN: GT2:Feb 74:185:10310

Shearing Strength of Kaolinite, Illite, and Montmorillonite, Roy E. Olson, GT11:Nov 74:1215:10947

Sheet Pile Design with Variable Soil Parameters, William D. Kovacs, James H. Martin and Frank A. Gerig, TN: ST2:Feb 74:200:10310

Simulation of Excavation Using Finite Elements, Vallampadugai S. Chandrasekaran and George J.W. King, TN: GT9:Sept 74:1086:10774

Soil Arching in Slopes, Wen L. Wang and Bing C. Yen, GT1:Jan 74:61:10300

Soil Liquefaction by Torsional Simple Shear Device, Isao Ishibashi and Mehmet A. Sherif, GT8:Aug 74:871:10752

Specimen Preparation and Liquefaction of Sands, Richard S. Ladd, TN: GT10:Oct 74:1180:10857

Stiffness Coefficients for Embedded Footings, Gordon R. Johnson, Paul P. Christiano and Howard I. Epstein, EPCE:Aug 74:499

Stress Analysis of Hollow Cylindrical Inclusions, Sidiq M. Dar and Robert C. Bates, GT2:Feb 74:123:10364

Stress Distributions in Triaxial Compression Samples, William M. Kirkpatrick, Roger K. Seals and F. Barry Newman, TN: GT2:Feb 74:190:10310

Stresses on Shallow Circular Pipe by Transformed Section, Rowland Richards, Jr. and Jagdish S. Agrawal, GT6:June 74:637:10631

Stress-Strain Properties of Compacted Clays, David E. Daniel and Roy E. Olson, GT10:Oct 74:1123:10869

Studies on Anchored Flexible Walls in Sand, Thomas H. Hanna and Ibrahim I. Kurdi, GT10:Oct 74:1107:10854

Theory of Consolidation for Clays, Gholamreza Mesri and Anoushiravan Rokhsar, GT8:Aug 74:889:10740

Tjipanundjang Dam in West Java, Indonesia, Laurence D. Wesley, GT5:May 74:503:10543

Torsional Vibration of Viscoelastic Foundations, Anestis S. Veletsos and V. V. Damodaran Nair, GT3:Mar 74:225:10415

Triaxial and Plane Strain Behavior of Natural Clay, Yoginder P. Vaid and Richard G. Campanella, GT3:Mar 74:207:10421

Two-Dimensional Heated Pipeline in Permafrost, Jon F. Sykes, William C. Lennox and Tharakkal E. Unny, GT11:Nov 74:1203:10956

Yielding of Sand in Plane Strain, Sam Frydman, GT5:May 74:491:10540

Geothermal Powerplants

Civil Engineering Features of Geothermal Power Plant, Simon Peters, PO2:Dec 74:157:11000

Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127

Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136

Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437

Geothermal Studies

New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19

Geriatrics

Residential Environment and Adjustment: The Special Case of the Elderly, Kermit K. Schooler, ABS:71:43

Germany

Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, Fritz Rafeiner, TB:73:Ia-12-1095

Architectural Criteria of Tall Buildings in Germany and Europe, Fritz Rafeiner, TB:73:Ia-12-1151

Artificial Beach Nourishment on the German North Sea Coast, Johann Kramer, CE13:72:II-1465

Cable Suspended Roof for Munich Olympics, Fritz Leonhardt and Jorg Schlaich, CE:July 72:41

Design Criteria for North Sea Dikes, Johann Kramer, WW4:Nov 71:703:8548

Design of Hamburg's New Airport Terminal, Joseph Treiterer, TE3:Aug 70:403:7483

Land Reclamation and Groin-building in the Tidal Flats, Heie Focken Erchinger, 12CEC:71:1041

The Pressure of Floating Ice-fields on Piles, Joachim Schwarz, 12CEC:71:1523

Quality Control of Concrete in Germany, Manfred Stiller, TB:73:Ib-9-897

Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807

Geysers

Civil Engineering Features of Geothermal Power Plant, Simon Peters, PO2:Dec 74:157:11000

Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127

Ghana

Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375

Girder Bridges

Analysis of Skewed Composite Girder Bridges, William C. Gustafson and Richard N. Wright, ST4: Apr 68:919:5890

Girders

Beam-To-Girder Connections, Vincent R. Cartelli, TB:73:II-15-371

Behavior of Howe, Pratt, and Warren Trusses, John D. Renton, ST2:Feb 69:183:6388

Bending of Deep Girders with A514 Steel Flanges, Phillip S. Carskaddan, ST10:Oct 69:2219:6839

Construction of Large Prestressed Concrete Girders, J. Neil Mustard and Ram S. Ghosh, CO4:Dec 74:507:10994

Continuous Helicoidal Girders, Assad Abdul-Baki and Abla Shukair, ST10:Oct 73:2183:10108

Cost Optimization of Welded Plate Girders, Natarajan Annamalai, Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258

Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631

Europe's Dramatic Cable-Stayed Bridges, Allen Firmage, CE:Sept 74:107

Heavy Prestressed Girders Cast in Segments, Harold L. Nelson, CE:Feb 70:75

Longest Prestressed Girders for New York City Bridge, Robert Cuccioli, CE:Apr 71:72

Lumped Parameter Model for Stability Analysis, Walter D. Pilkey and Kevin J. O'Connor, TN: ST7: July 73:1702:9828

Minimum Weight Proportions for Steel Girders, Edward C. Holt and Gary L. Heithecker, ST10:Oct 69:2205:6838

Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51

Survey of Curved Girder Bridges, Roger L. Brockenbrough, Chmn., CE:Feb 73:54

Theoretical Analysis of Curved Girder Bridges, Terry R. Douglas and Samuel C. Gambrell, Jr., EM5:Oct 74:991:10871
Theoretical Stresses and Strains from Heat Curving, Roger L Brockenbrough, ST7:July 70:1421:7410
Thin Aluminum Shear Webs, Maurice L. Sharp and John W. Clark, ST4:Apr 71:1021:8048
Torsional Properties of Built-up I-shaped Sections, M. K. Mehta and James J. Powers, CE:Mar 74:74

Glass
Syntactic Foams for Deep Sea Engineering Applications, Israel Resnick and Aleksander Macander, CO1:June 70:45:7367
Yield and Failure of Glass-Epoxy Composites, Ori Ishai, Arlo E. Moehlenpah and Aaron Preis, EM5: Oct 70:739:7616

Glass Fibers
Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72
GFRP Rod and Rope for Structural Guy Applications, Nixon Halsey, EM4:Aug 74:673: 10715
Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
Surface-Bonded Concrete-Block Panels, Herbert W. Busching, Donald H. Hamilton and James G. Goree, EM2:Apr 74:359:10493

Glass Reinforced Plastics
GFRP Rod and Rope for Structural Guy Applications, Nixon Halsey, EM4:Aug 74:673: 10715

Glued Joints
FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779

Golf Courses
Flood Channel Doubles as Golf Course, Clifford C. Hood, CE:May 72:49

Government
Approaches and Viewpoints of State Natural Water Resources Agencies, William Whipple, Jr., UWRM: 71:100
Civil Engineers at Government Aerospace Centers, E. J. Kramer, ESE:Apr 70:145
Coastal Waters and the Nation, Edward Wenk, Jr., CE:June 69:52
Coordinated Operation of Central Valley and State Water Projects, Welby R. Madsen and David G. Coleman, HY10:Oct 74:1399:10887
The Cost of Pollution, Reinhold W. Thieme, WQEF: Mar 70:29
Dam Safety-An Objective of Federal Licensing, F. Stewart Brown, PO1:Mar 67:67:5155
Dam Safety Laws and Dam Safety Inspections in South Africa, Johannes Gideon du Plessis, IMROD:Sept 73:241
Environment by Design, William L. Slayton, CE:Oct 71:85
FHWA Traffic Research Program, Carl F. Izzard, TE2:May 71:333:8133
Financing Water Quality Control on a National Basis, Morris H. Klegerman, CWFE:Mar 71:131
Foreign Service, E. C. Kobs, PP1:July 69:79:6703
Guide for Public Agency Professional Development, Marble J. Hensley, PP1:Sept 70:55:7553
HUD Sewer Policy in Urban Renewal Areas, Francis J. Blesso, UP1:July 72:33:9035
Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469
Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
Managing System Operations—Central Valley Project, Dan M. Fults and Lawrence F. Hancock, HY10:Oct 74:1419:10886
Metropolitan Planning and Implementation, Robert C. Einsweiler, UP2:Oct 70:113:7581
Mississippi Valley Mapping, Leslie B. Robison, SU1: May 71:103:8102
Model Law to Improve Dam Safety, Alfred R. Golze, CE:Mar 71:53
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456
The Nixon Administration and the City, E. E. Halmos, Jr., CE:Sept 69:98
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
Origin, Purpose, and Status of Project, Robert A. Nelson, TE4:Nov 70:439:7655
Our Priceless Heritage, Our Youth, Leon Jaworski, CE:Mar 73:76
Planning and Engineering by Agency-Consultant Team, Louis W. Riggs, UP2:Oct 70:105:7585
A Program For New Towns, Ira J. Bach, UP1:Apr 71:55:8059
Putting Water Resources Research into Practice, Fred S. Singer, CE:June 70:47
Reaction to USCOLD's Proposed Law for Dam Safety, Alfred R. Golze, IMROD:Sept 73:282
Regional Water Quality Standards, Ralph Porges, SA3:June 69:423:6596
Retirement Plan Study, Arnold Olitt, PP1:Sept 70:39: 7552
Role of Government in Public Works, Peter Corradi, PWS:Nov 72:187
Role of Government in Public Works Development, William Harris, Sir, PWS:Nov 72:167
Safety of Dams - Bureau of Reclamation, Donald A. Gray, HY2:Feb 74:267:10354
The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700
State Viewpoint on River Basin Planning, Nicholas L. Barbarossa, WW2:May 68:217:5955
Summary of the Session on International Experiences, Jack C. Jones, IMROD:Sept 73:262
Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365: 9879
Views of Port Industry, Roger H. Gilman, WW1:Feb 71:3:7919
Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667

Government Employees
Engineer Firms Face Unionization, Larry N. Spiller, CE:Apr 71:49
Engineers in Public Practice Face the Union Problem, Waldo G. Bowman, CE:Apr 69:49

Government Policies
Flood-Plain Development Must be Ecologically and Economically Sound, James E. Goddard, CE:Sept 71:81
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563: 9287
Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350
New Wastewater Treatment Processes: EPA Encourages Adoption, Charles L. Swanson, CE:Sept 71:49
New York State Spurs Housing, Kneeland A. Godfrey, Jr., CE:Nov 71:53
The Other Side of "The Highway Explosion", Carlton C. Robinson, CE:Feb 71:47
Politics Of Water Resources Development, Daniel M. Ogden, Jr., SEA:70:353
Private Engineering in Public Works, William A. Bugge, TE1:Feb 69:67:6396

Will Air Pollution Regulations Change Commuting Patterns?, William D. Ruckelshaus, CE:Sept 71:86

Gradients
Gravity and Gradients of Long Tunnels, H. S. Williams, SU1:Oct 69:11:6815
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB:73:III-25-793

Grading (Earthwork)
Esthetics in Highway Design, Donald Van Riper, CE:Apr 72:47

Graduate Study
ASCE and Graduate Students: Faculty Advisor's Opinion, Keith Charles Crandall, PP3:July 73:307:9882
Civil Engineering: An Education for Professional Management, Boyd C. Paulson, Jr., CEE:Feb 74:1-580
Civil Engineering Graduate Education in Evolution, John D. Haltiwanger, William J. Hall and Nathan M. Newmark, CEE:Feb 74:1-149
Civil Engineering's Role in Construction Education, Henry W. Parker, CEE:Feb 74:1-573
The Civil Engineer in Urban Affairs and Planning, Sigurd Grava, CEE:Feb 74:1-173
A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489
Construction as an Option within Civil Engineering, George E. Mason and Russel C. Jones, CEE:Feb 74:1-620
Development of a Planning Program: A Case Study, William K. Johnson, Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71
Educating Public Works Engineers and Administrators, Donald C. Stone, CEE:Feb 74:1-679
Education Profile for Consulting Engineering: A Case Study (Discussion), Melvin I. Esrig, CEE:Feb 74:2-314
Effects of Environmental Concerns on Education, Paul W. Purdom, CEE:Feb 74:1-508
Engineer/Builder's Approach to Continuing Education, Richard M. Collins, CEE:Feb 74:1-816
Experience in Teaching Engineering Judgment by Case Histories in Foundation Engineering, Ralph B. Peck and Herbert O. Ireland, CEE:Feb 74:1-187
Graduate Civil Engineering Programs, Thomas E. Stelson, CEE:Feb 74:2-36
Graduate Management Curricula for Experienced Engineers, William D. Brinckloe, Alfred C. Ingersoll and Ricardo Gonzales, Jr., CE:Sept 74:99
An Interdisciplinary Graduate Program, Robert Burnham, Volker Hartkopf, Edward M. Krokosky and Irving J. Oppenheim, CEE:Feb 74:1-179
Issues of Environmental Engineering Education, Wesley O. Pipes, CEE:Feb 74:1-496
Management Degree Program for Employed Public Works Directors, A. Morgan Johnson, CEE:Feb 74:1-728
Management Education for Civil Engineers, Stephens W. Nunnally and William H. Wisely, CEE:Feb 74:1-696
Management in the Construction Industry --A New M.I.T. Program, William A. Litle, CEE:Feb 74:1-589
Master's Degree in Civil Engineering / Facilities: A Program Offered at the Air Force Institute of Technology School of Engineering for Air Force Civil Engineers, Stewart W. Johnson, CEE:Feb 74:1-157
New Interdisciplinary Program in Construction Management at WPI, A. Fattah Chalabi, CEE:Feb 74:1-645
PennState Civil Engineering Construction Education, Jack H. Willenbrock, CEE:Feb 74:1-628
Practioner-Oriented Post-Baccalaureate Education, Ralph E. Fadum, CEE:Feb 74:1-794
Public Works Engineering and Administration- The Pittsburgh Experience, George M. Tomsho and Joel I. Abrams, CEE:Feb 74:1-723
The Role of Consulting in Faculty Development, Furman W. Barton, Fred C. McCormick and Henry L. Kinnier, CEE:Feb 74:1-962
The Socio-Engineering Program at S.U.N.Y.-Buffalo, George C. Lee, CEE:Feb 74:1-703
Socio-Technical Programs in Civil Engineering at O.S.U., Michael B. Godfrey and Elbert E. Whitlatch, Jr., CEE:Feb 74:1-713
Some Experience with Offering Professional Education in Urban Transportation, Lester A. Hoel, CEE:Feb 74:1-850
A Success Story - Kansas City Engineering Evening Graduate Program (Discussion), Melford E. Monsees, CEE:Feb 74:2-320
Ten Years After: Confessions of an Overeducated Engineer, Richard M Males, CEE:Feb 74:1-417
Transportation Education and Research: A Multidisciplinary Approach, C. Michael Walton and William Ronald Hudson, CEE:Feb 74:1-200
Urban Systems Planning: Implications for Civil Engineering Education, Ata M. Khan, CEE:Feb 74:1-164
Ut Prosimus et Ducamus, Dan H. Pletta, CEE:Feb 74:1-459
The Water Studies Program at Stanford University, Perry L. McCarty, CEE:Feb 74:1-193

Grain Elevators
Grain Storage Structures for Food Deficient Areas, Alexander M. Turitzin, ST10:Oct 69:2161:6835
Temporary Bulk Grain Storage Structures, Alexander M. Turitzin, ST3:Mar 69:381:6459

Grain Size
Engineering Behavior and Structure of Compacted Clay, Laing Barden and Geoffrey R. Sides, SM4:July 70:1171:7397
Standardization of Particle-Size Ranges, Charles C. Ladd, SM5:Sept 69:1247:6795

Grain Sizes
Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672
Influence of Grain Size on Littoral Drift, Jose Castanho, 12CEC:71:891
Sediment Distribution and Its Relations to Circulation Patterns in Bolinas Bay, California, P. Wilde and T. Yancey, 12CEC:71:1397
Standard Penetration Test and Relative Density, Klaus-Jurgen Melzer, 4PCSM:71:II37
Successive Saltation of a Sand Grain by Wind, Yoshito Tsuchiya, 12CEC:71:1417

Grand Coulee Dam
Proposed Third Power Plant at Grand Coulee Dam, Harold G. Arthur, PO1:Mar 67:15:5148

Grants
Opportunities in Changing Federal System, Larry Rice, UP1:Mar 74:73:10423

Granular Materials
Bin Loads, Andrew W. Jenike and Jerry R. Johanson, ST4:Mar 68:1011:5916
Constitutive Relations for Inelastic Granular Medium, Jay B. Weidler and Paul R. Paslay, EM4:Aug 70:395:7475
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
Evaporation Reduction with Floating Granular Materials, Lloyd E. Myers and Gary W. Frasier, IR4:Dec 70:425:7741
Nonlinear Flow Through Granular Media, David Ellis Wright, HY3:July 68:851:6018
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
Random Walk Model of Ideal Granular Mass, Edward Hamilton Fletcher, SM10:Oct 71:1379:8444

Graphic Arts

Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, TE4:Nov 74:943:10936

Drafting Transformed by Plotter, Computer and Digitizer, Kenneth W. Nonnenman, CE:Feb 74:48

Graphic Methods

Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31

Design and Analysis of Frames for Stability, Harold Switzky and Ping Chun Wang, ST4:Apr 69:695:6522

Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261

Graphic Relation of Intake Length-of-Run and Time, I-pai Wu and A. Alvin Bishop, IR3:Sept 70:223:7506

Interactive Graphics In Civil Engineering Design, Richard T. Douty and Sidney Shore, EC5:70:439

Interactive Graphics: Settlement & Slope Stability, Robert L. Schiffman and Jack R. Stein, EC5:70:407

Shear Strength and Stability of Man-Made Slopes, Awtar Singh, SM6:Nov 70:1879:7652

Technique for Interactive Computer Graphics in Design, Richard T. Douty and Sidney Shore, ST1:Jan 71:273:7837

Thermal Movement Of Bridge Decks, Ganpat S. Pandit, TN: ST8:Aug 72:1899:9086

The 1-Point Procedure, R. A. Georgi, CE:Feb 71:60

Graphs (Charts)

Allowable Bending Stress Design Aid, Allen J. Hulshizer, CE:Feb 70:63

Basin Tracer Curves Interpreted by Basic Analytics, A. Adler Hirsch, SA6:Dec 69:1031:6951

Computer Plotted Prestressed Concrete Design Charts, Leonard Rice, ST3:Mar 71:863:7993

Design Aid for Deflection Calculation for a Uniformly Loaded Flexural Member, Thomas M. Chura, CE:Feb 72:75

Design Flood Frequency Curves, Stanley S. Butler, TN: HY3:Mar 71:479:7945

Economical Design of Reinforced Concrete Slabs and Walls, Balbir S. Sandhu, CE:July 71:68

Flowgraph Analysis of Pipeline Networks, Thorleif Enger and Chuan C. Feng, HY10:Oct 71:1607:8404

Graphical Method for Finding All Roots of Quadratic and Cubic Equations, J. Y. Benzies, CE:Jan 71:53

Graphical Stability Analysis of Slopes in Jointed Rock, Klaus W. John, SM2:Mar 68:497:5865

Graphic Analysis of Roadway Runoff, James B. Wolfson, CE:June 71:64

Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830

Plotting Positions for Hydrologic Frequencies, John R. Stipp and George K. Young, Jr., TN: HY1:Jan 71:219:7824

Predicting Return Flows From Irrigation, Patrick A. Hurley, IR1:Mar 68:41:5838

Solution Of Hydraulic Jump In Horizontal Channels By Graphs, Yin Au Yeung, TN: HY8:Aug 72:1465:9083

Wave Force on a Platform with a Ribbed Bottom, Keith H. Denson and Melville S. Priest, CE13:72:III-1759

Graph Theory

User-Optimized Traffic Assignment, Frank J. Hatfield, TE2:May 74:313:10519

Grasses

Effectiveness of Precipitation in a Mountain Meadow, E. Gordon Kruse and Howard R. Haise, IR73:Aug 73:627

Grasslands

Effectiveness of Precipitation in a Mountain Meadow, E. Gordon Kruse and Howard R. Haise, IR73:Aug 73:627

Gravel

Analysis of Flow in Channels with Gravel Beds, John A. Roberson and Steven J. Wright, HYB:Aug 73:63

Hydraulics of a Gravel-Core Fish Screen, Ronald E. Nece and Milo C. Bell, HYB:Aug 73:31

Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375

Sampling Procedures for Coarse Fluvial Sediments, Rolf Kellerhals and Dale I. Bray, HY8:Aug 71:1165:8279

Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51

Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293

Using Aerial Photos to Locate Granular Fill Material, Doss Neely and Abdel-Hady Mohamed, CO2:Oct 68:181:6166

Graving Docks

Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821

Graving Dock for 300,000-ton Ships, Charles F. Millard and Jay J. Hassani, CE:June 71:71

1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389

Gravitation

Collapse of Yielding Structures During Earthquakes, Paul C. Jennings and Raul Husid, EM5:Oct 68:1045:6154

Inertial Platforms in Photogrammetric Mapping, Mohamed F. Madkour, SU2:Sept 68:109:6095

Gravity

Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814

Gravity and Surface-Load Stresses in Spheres, August J. Durelli, Vincent J. Parks and Luis Ferrer, EM4:Aug 70:407:7481

Gravity Effect on Single-Degree Inelastic System, Chang-Kuei Sun, Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565

Gravity Anomalies

Gravity and Gradients of Long Tunnels, H. S. Williams, SU1:Oct 69:11:6815

Gravity Dams

Discharge Facilities at Hells Canyon Dam, J. T. Gilchrist and D. E. Barclay, PO2:Nov 68:161:6230

Gravity Irrigation

Economic Pipe Sizing for Gravity Sprinkler Systems, Roland P. Perold, IR2:June 74:107:10583

Gravity Waves

Determining Nearshore Intergravity Wave Spectra, Joseph N. Suhayda, WAVES:Sept 74:54

Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467

A Higher Order Theory for Symmetrical Gravity Waves, Peter L. Monkmeyer, 12CEC:71:543

On Breaking of Internal Gravity Waves, W. O. Criminale, Jr., ISSF:Aug 72:175

Refraction Computations for Practical Applications, Ove Skovgaard and Jens Aage Bertelsen, WAVES:Sept 74:761

Wave Defraction by Detached Breakwater, Michael Stiassnie and Gedeon Dagan, WW2:May 72:209:8869

Wave Heights Expressed in Engineering Terminology, Homer I. Sargeant and Richard C. Timme, WAVES:Sept 74:433

Greases

Hydrolysis of Lipids in Wastewater, Gary R. Kramer, SA5:Oct 71:731:8418

Great Britain

British Column Design, Allan R. Gent, TB:73:II-16-545

An Evaluation of Mixing in the Tay Estuary, J. R. West and David J.A. Williams, CE13:72:III-2153
Evaluation of Urban Road Projects, Alfred Goldstein, PWS:Nov 72:203
Geotechnical Investigations of the Aberfan Disaster (Book Reviews), H. Bolton Seed, CE:May 70:94
Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment, Thomas A.L. Paton, PWS:Nov 72:81
An Induced Failure at a Trial Embankment At King's Lynn, Norfolk, England, P. F. Wilkes, PES: 72:I-29
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
Old Hall Street Development -- Liverpool, Alastair J.M. Soane, TB:73:C-P-231
The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73: III-24-711
Role of Government in Public Works Development, William Harris, Sir, PWS:Nov 72:167
Severn River Suspension Bridge, Gilbert Roberts, CE: Aug 69:68
Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51
Status of Ground-Probing Radar and Some Recent Experience, John C. Cook, EFSE:Aug 74:175
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767
Suspended Load Calculations in a Tidal Estuary, Brian A. O'Connor, 12CEC:71:1931

Great Lakes
Aquatic Studies at Ludington Pumped Storage Project, John Z. Reynolds, Peter I. Tack and Charles R. Liston, EPCE:Aug 74:227
Development of a Shallow-Water Wave Direction Gage, R. J. Hallermeier and William R. James, WAVES:Sept 74:696
Lake Michigan-Huron Stage-Frequency and Trend, R. Robinson Rowe, WW3:Aug 69:261:6716
Mission of U.S. Lake Survey, James E. Bunch, SU2: Sept 70:181:7527
Properties of Longshore Bars in the Great Lakes, James H. Saylor and Edward B. Hands, 12CEC:71: 839
Water Quality Model of Chlorides in Great Lakes, Donald J. O'Connor and John A. Mueller, SA4: Aug 70:955:7470
Wave Data Analyses at GLERL, Paul C. Liu and Richard J. Robbins, WAVES:Sept 74:64

Greece
Athens Tower, A. Albertis-TH. Dimopoulos S.A., TB:73:C-P-502

Greens Function
Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247: 10236

Grid Systems
Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679: 8993
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64
Field Analysis of Torsionless Bridge Grids, J. C. Smith and Donald L. Dean, ST9:Sept 73:1837: 10031
Field Solutions for Shear Grids, Donald L. Dean, ST12:Dec 71:2845:8594
Shakedown of Grids, Dale G. Eyre and Theodore V. Galambos, ST10:Oct 73:2049:10049
Transverse Elastic Buckling of Plane Pipe Gridworks, Alan I. Soler and Hooshang Afshari, TN: ST4:Apr 74:837:10456

Grillage Footings
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337: 9404
Underpinning Massive Structures, Charles E. Mergentime, CE:Mar 72:40

Groins (Structures)
Calculated Sand Fills and Groin Systems, John Simpson Hale, CE13:72:II-1385
Characteristics of Shingle Beaches: The Solution to Some Practical Problems, A. M. Muir Wood, 12CEC:71:1059
Design of Filter System for Rubble-Mound Structures, Theodore T. Lee, CE13:72:III-1917
The Dynamics of a Coast with a Groyne System, W. T. Bakker, E. H.J. Klein Breteler and A. Roos, 12CEC:71:1001
The Effect of Groynes on Eroded Beaches, W. A. Price and K. W. Tomlinson, 12CEC:71:1053
Experimental Study of the Hydraulic Behaviour of Inclined Groyne Systems, Julio Patriarca Barcelo, 12CEC:71:1021
Field Tests on Two Permeable Groynes, W. A. Price, K. W. Tomlinson and D. H. Willis, CE13:72:II-1401
The History and Philosophy of Coastal Protection, Per Moller Bruun, CE13:72:I-33
The History of the Dutch Coast in the Last Century, W. T. Bakker and D. Sj. Joustra, 12CEC:71:709
Land Reclamation and Groin-building in the Tidal Flats, Heie Focken Erchinger, 12CEC:71:1041
New Designs for Beach Protection Structures, G. D. Khaskhachikh, G. A. Tsaturiyan and Ya. S. Shulgin, CE13:72:III-1675
The Nile Delta Coastal Protection Project, Ismail E. Mobarek, CE13:72:II-1409
State of Groin Design and Effectiveness, J. H. Balsillie and Dennis W. Berg, CE13:72:II-1367

Grooving
Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45
Grooving on the Runway at Washington National Airport, Vernon R. Gingell, CE:Jan 69:31

Ground Effect Machines
Proposed Tracked Air Cushion Vehicle System for Los Angeles International Airport, William M. Schoenfeld, NA:Mar 71:115
Systems Approach to Choice in Transport Technology, Edward J. Ward, TE4:Nov 70:455: 7656

Ground Support Equipment
The Civil Engineer in Aerospace, Task Committee on Civil Engineering in Space of the Committee on Space Facilities of the Aero-Space Transport Division, Stewart W. Johnson, Chmn., TE2:May 71:247:8124

Ground Vehicles
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331

Ground Water
Alfalfa Water Table Investigations, Rhys Tovey, IR4: Dec 69:525:6974
Analog of Ground Water in East-Central New Mexico, H. Boyd Phillips and Harris R. McDonald, IR1:Mar 69:27:6435
Analysis of Seepage into Ground-Water System, Adigun Ade Abiodun, TN: HY7:July 73:1203:9827
Application of PL-566 to Drainage Problem, Paul Tilker, IRS:Sept 72:17
Artificial Ground-Water Recharge by Means of Wells in Israel, Yoav Harpaz, HY12:Dec 71:1947:8579
Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760
Carbon-14 Ages Related to Occurrence of Salt Water, William Back, Bruce B. Hanshaw and Meyer Rubin, HY11:Nov 70:2325:7702

Changing the Consumptive Use on the Gila River Flood Plain, Southeastern Arizona, Ronald L. Hanson, Frank P. Kipple and Richard C. Culler, IRS:Sept 72:309

Concepts for Ground-Water Regulatory District, Dale Twachtmann, EI1:Jan 74:69:10272

Contribution of Minerals to the Ground Water Due to Agriculture in the Upper Santa Ana River Basin of Southern California, Ahmad Amin Hassan, OIDS:72:245

Cost-Effectiveness Analysis of Wastewater [illegible]s, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434

Deep-Well Disposal of Wastes, William R. Walker and Ronald C. Stewart, SA5:Oct 68:945:6171

Discharge and Travel Time for Ground-Water Conduits, Stanley S. Butler and David L. Gundlach, IR1:Mar 74:17:10393

Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474

Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553

Evaluation of Agricultural Drainage in Water Quality Management, T. Clark Lyons, Dwight P. Russell and Roger G. Fry, IR73:Aug 73:529

Exact Flow Rates from Dupuit's Approximation, Bruce W. Hunt, HY3:Mar 70:633:7140

Exotic Uses Of Aquifers (and their impact on groundwater basin management), Raphael G. Kazmann, SEA:70:295

Falling Water Table Between Tile Drains, Dirk E. L. Maaśland and R. A. Shery, IR2:June 67:9:5258

Flow Rates in Two-Dimensional, Unsteady, Confined Groundwater Flow, Bruce W. Hunt, HY2:Mar 69:603:6451

Future of Ground Water in African Sahara Desert, Hammad Y. Hammad, IR4:Dec 69:563:6986

General Statement of Principles to be Included in State Water Rights Laws, Floyd A. Bishop, Chmn., IR2:June 72:317:8996

Geohydrologic Aspects of Cross-Florida Barge Canal, Glen L. Faulkner, SEA:70:307

Geophysics in Groundwater Exploration, Tsvi Meidav and Jerome S. Nelson, OIDS:72:257

Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136

Groundwater Control by Pumping, James A. Robertson, Jr., Frank J. Dragoun and Dale W. Sall, IR73:Aug 73:179

Ground-Water Hydraulics in Aquifer Management, Eduardo Aguado and Irwin Remson, HY1:Jan 74:103:10287

Ground Water Management-A Progress Report, Jack J. Coe, SEA:70:105

Ground Water Management-A Progress Report, Jack J. Coe, IR1:Mar 71:149:7971

Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72, 216pp.

Groundwater Model as a Tool in Planning and Management, Robert W. Charley, Edwin V. Lance and G. Morgan Powell, IR73:Aug 73:251

Ground-Water Quality Study, Nikolas F. White and Daniel K. Sunada, IR3:Sept 74:277:10813

Ground Water Quality, West Jefferson County, Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417

Ground Water Recharge Design for Renovating Waste Water, Herman Bouwer, SA1:Feb 70:59:7096

Ground-Water Recharge Strip Basin-Experiment, Richard R. Brock and Abnish C. Amar, HY4:Apr 74:569:10503

Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215

Hydraulic Engineering and the Environment, William A. Hunt, Chmn., HYB:74, 466pp.

Hydrogeology of Florida's Largest Citrus Grove, William E. Wilson, IRS:Sept 72:293

Hydrology and Geology of Honolulu Aquifer, David K. Todd and Charles F. Meyer, HY2:Feb 71:233:7910

Invariant Imbedding and Unsteady Ground-Water Flow, Shin Chang and William Wen-Gong Yeh, HY10:Oct 74:1343:10862

Iterative Analysis: Bounded Leaky Artesian Aquifer, S. A. Vanden Berg, IR1:Mar 69:1:6431

Law Politics and Ground Water Management, Donald Stark, SEA:70:135

Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696

Measuring Subsurface Spring Flow With Radiotracers, William C. Galegar and Myron W. DeGeer, SA6:Dec 69:1097:6973

Method of Additional Seepage Resistances—Theory and Application, Tatiana D. Streltsova, HY8:Aug 74:1119:10746

Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45

Nonlinear Equation of Unsteady Ground-Water Flow, John C. Bruch, Jr., HY3:Mar 73:395:9589

Nonlinear Flow in Porous Media, Nazeer Ahmed and Daniel K. Sunada, HY6:Nov 69:1847:6883

Nonsteady Flow to Surface Reservoir, William Wen-Gong Yeh, HY3:Mar 70:609:7137

Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088

Optimal Pumping for Aquifer Dewatering, Eduardo Aguado, Irwin Remson, Mary F. Pikul and Will A. Thomas, HY7:July 74:869:10639

Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546

Oxygen Relationships in Intermittent Sand Filtration, Albert B. Pincince and Jack E. McKee, SA6:Dec 68:1093:6295

Potable Water Availability on Long Oceanic Islands, Eugene W. Rochester, Jr. and George J. Kriz, SA5:Oct 70:1235:7627

Programming for Pavlovsky's Ground-Water Problem, George T. Papadopoulos and Joakim G. Laguros, IR1:Mar 68:49:5840

Radial Dispersion in Ground-Water Flow, Bruce W. Hunt, EM6:Dec 74:1117:10998

Rational Design of Wall Screens, Satya P. Garg and Jagroshan Lal, IR1:Mar 71:131:7969

Rock Mechanics at Churchill Falls, Raymond P. Benson, Robert J. Conlon, Andrew H. Merritt, Paul Joli-Coeur and Don U. Deere, URC:72:407

Role of Bedrock in Watershed Management, Walter F. Megahan, IR73:Aug 73:449

Role of Ground Water in Texas Water Plan, Richard C. Peckham, IR1:Mar 68:137:5874

Safe Yield of Aquifers: An Economic Reformulation, Robert A. Young, IR4:Dec 70:377:7719

Salinity Status of Marl Soils in Southern Florida, E. H. Stewart, R. R. Alberts and P. G. Orth, SEA:70:63

Salt Water Interface During Ground-Water Pumping, Norbert L. Ackermann and Y. Y. Chang, HY2:Feb 71:223:7920

Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171

Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875

Seepage From Shallow Reservoir, Bruce W. Hunt, HY1:Jan 73:23:9476

Seepage Towards Highway Cuts, Abdel-Aziz I. Kashef, TE4:Nov 69:667:6912

Slope Stability in Residual Soils, Don U. Deere and F. D. Patton, 4PCSM:71:I87

Standard Penetration Test and Relative Density, Klaus-Jurgen Melzer, 4PCSM:71:II37

Steady Drainage of Layered Soils: II, Nomographs, Sadik Toksoz and Don Kirkham, IR1:Mar 71:19:7986

Steady Drainage of Layered Soils: 1, Theory, Sadik Toksoz and Don Kirkham, IR1:Mar 71:1:7985

Storage of Oil in Unlined Caverns in Different Types of Rock, Carl-Olof Morfeldt, RM14:73:409

Subsidence in United States Due to Ground-Water Overdraft—A Review, J. F. Poland, IR73:Aug 73:11

Subsurface Environment—Private Property or Public Domain?, William R. Walker and William E. Cox, HY11:Nov 74:1699:10958

Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625
Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660
Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611
Unconfined Aquifer Seepage by Capillary Flow Theory, Rameshwar D. Verma and Wilfried Brutsaert, HY6:June 70:1331:7363
Unsteady Drawdown in Well Groups, Raymond J. Krizek, Gabor M. Karadi and D. Babu Rao, HY10:Oct 71:1625:8436
Unsteady Free Surface Ground Water Seepage, Rameshwar D. Verma and Wilfried Brutsaert, HY8:Aug 71:1213:8337
Unsteady Seepage Toward Narrow Ditch, Bruce W. Hunt, HY10:Oct 70:1953:7586
Unsteady Seepage Toward Sink Beneath Free Surface, Bruce W. Hunt, HY4:Apr 70:859:7202
Vertical Recharge of Unconfined Aquifer, Bruce W. Hunt, HY7:July 71:1017:8257
Water Resources Management, Langdon W. Owen, SEA:70:157

Groundwater Depletion
Subsidence in United States Due to Ground-Water Overdraft—A Review, J. F. Poland, IR73:Aug 73:11

Groundwater Flow
Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Computer Analysis of Flow toward Artesian Wells, Yang H. Huang, TN: HY9:Sept 71:1579:8349
Drainage in Soils with Initial Gradient, Arun J. Valsangkar and Kanakatti Subramanya, IR2:June 72:309:8995
Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and Tor L. Brekke, RM14:73:481
Identification of Parameters in Finite Leaky Aquifer System, Miguel A. Marino, HY2:Feb 73:319:9567
Longitudinal Dispersion in Saturated Porous Media, Miguel A. Marino, HY1:Jan 74:151:10296
Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546
Role of Bedrock in Watershed Management, Walter F. Megahan, IR73:Aug 73:449
Scientific and Administrative Criteria for Shallow Waste Disposal, George M. Hughes and Keros Cartwright, CE:Mar 72:70
Site Evaluation and Design of Seepage Fields, Kent A. Healy and Rein Laak, EE5:Oct 74:1133:10882
Validity of Dupuit-Forchheimer Equation, Willard A. Murray and Peter L. Monkmeyer, HY9:Sept 73:1573:9997
Water-Table Fluctuation in Response to Recharge, Miguel A. Marino, IR2:June 74:117:10582

Groundwater Hydrology
Groundwater Control by Pumping, James A. Robertson, Jr., Frank J. Dragoun and Dale W. Sall, IR73:Aug 73:179
Groundwater Model as a Tool in Planning and Management, Robert W. Charley, Edwin V. Lance and G. Morgan Powell, IR73:Aug 73:251
Similitude Criteria for Flow from Unconfined Aquifers, Rameshwar D. Verma and Wilfried Brutsaert, HY9:Sept 71:1493:8397

Groundwater Management
Groundwater Control by Pumping, James A. Robertson, Jr., Frank J. Dragoun and Dale W. Sall, IR73:Aug 73:179
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72, 216pp.
Groundwater Model as a Tool in Planning and Management, Robert W. Charley, Edwin V. Lance and G. Morgan Powell, IR73:Aug 73:251
Seepage from Recharge and Landfill Ditches, Paul A. Witherspoon and T. N. Narasimhan, IR73:Aug 73:39
Subsidence in United States Due to Ground-Water Overdraft—A Review, J. F. Poland, IR73:Aug 73:11
Wellton-Mohawk Drainage, and the Mexican Salt Problem, Clifford C. Tabor, IR73:Aug 73:285

Groundwater Potential
Irrigation Development in Bangladesh, Stephen V. Allison and Kazi F. Jalal, IR1:Mar 74:69:10394

Groundwater Quality
Constructing Non-Polluting Coal Ash Disposal Sites, Anthony M. Di Gioia, Jr., Robert P. Hayden and James E. Niece, CE:Dec 74:64
Contribution of Minerals to the Ground Water Due to Agriculture in the Upper Santa Ana River Basin of Southern California, Ahmad Amin Hassan, OIDS:72:245
Ground-Water Quality Study, Nikolas F. White and Daniel K. Sunada, IR3:Sept 74:277:10813
Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB:Aug 73:427
Scientific and Administrative Criteria for Shallow Waste Disposal, George M. Hughes and Keros Cartwright, CE:Mar 72:70

Ground Water Recharge
Analytical Model for Management of Alluvial Aquifers, Raziq Qazi and Jeris Danielson, IR2:June 74:143:10627
Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760
Filtration of Chlorella Through Dune-Sand, Yair Folkman and Alberto M. Wachs, SA3:June 70:675:7332
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72, 216pp.
Ground Water Recharge Design for Renovating Waste Water, Herman Bouwer, SA1:Feb 70:59:7096
Ground-Water Recharge Strip Basin-Experiment, Richard R. Brock and Abnish C. Amar, HY4:Apr 74:569:10503
Optimal Utilization of Playa Water in Irrigation, Marvin J. Dvoracek and Theodore G. Roefs, OIDS:72:597
Seepage from Recharge and Landfill Ditches, Paul A. Witherspoon and T. N. Narasimhan, IR73:Aug 73:39
Utilization of Sewage Effluent for Irrigation, Leonard C. Halpenny, IR73:Aug 73:575
Water Conservation by Reclamation and Recharge, John H. Peters and John L. Rose, SA4:Aug 68:625:6065
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204
Water-Table Fluctuation in Response to Recharge, Miguel A. Marino, IR2:June 74:117:10582

Groundwater Sources
Drainage Analysis of a Confining Formation, Leo C. Benz and Eugene J. Doering, IR73:Aug 73:225
Geophysics in Groundwater Exploration, Tsvi Meidav and Jerome S. Nelson, OIDS:72:257

Groups
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9

Grout
Comments on United States Grouting Practices, James M. Polatty, EFFD:Mar 74:47
Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908

Emergency Grouting of Old River Low Sill Structure, La., E. Burton Kemp, EFFD:Mar 74:371
European Versus United States Grouting Practices, P. Rigny, EFFD:Mar 74:37
Grouting: Then, Now and Where, J. F. Daly, EFFD: Mar 74:57
Present State of the Grouting Industry in the United States, Joseph P. Welsh, EFFD:Mar 74:65
Purpose or Need for Grouting in the Treatment of Foundations, Judson P. Elston, IMROD:Sept 73: 563
Summary — Foundations for Dams, Edward D. Graf, EFFD:Mar 74:465

Grout Curtains
Effectiveness of Cut-offs under Three Earth Dams, Milton Vargas, 4PCSM:71:II257
Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172
Los Nogales Dam - Effectiveness of the Curtain (In Spanish), Carlos A. Micucci, Hugo Scolaro, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II309

Grouting
Applications of Electrokinetics in Grouting, Melvin I. Esrig, SM5:Sept 68:1143:6124
A Case Study of the Bauer Earth Anchor, Marvin D. Oosterbaan and Douglas G. Gifford, PES:72:I-1391
Chemical Grouting Technology, Reuben H. Karol, SM1:Jan 68:175:5748
Comments on United States Grouting Practices, James M. Polatty, EFFD:Mar 74:47
Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908
Compaction Grouting Technique and Observations, Edward D. Graf, SM5:Sept 69:1151:6766
Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
Difficult Excavation at Carley Porter Tunnel, Paul J. Varello, CE:June 70:66
Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:I237
Effectiveness of Cut-offs under Three Earth Dams, Milton Vargas, 4PCSM:71:II257
Emergency Grouting of Old River Low Sill Structure, La., E. Burton Kemp, EFFD:Mar 74:371
European Versus United States Grouting Practices, P. Rigny, EFFD:Mar 74:37
Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10: Oct 72:995:9303
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
Grout Hole Orientation-Mathematical Solution, J. S. Singhota, SM4:July 69:995:6660
Grouting: Then, Now and Where, J. F. Daly, EFFD: Mar 74:57
Guide Specifications for Chemical Grouts, W. K. Seaman, SM2:Mar 68:345:5830
Hills Creek Dam Seepage Correction, John D. Jenkins and Duane E. Bankofier, PES:72:I-723
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061
In-place Treatment of Foundation Soils, James K. Mitchell, SM1:Jan 70:73:7035
In-Place Treatment of Foundation Soils, James K. Mitchell, PISST:71:93
Mat Foundation and Preload Fill, VA Hospital Tampa, L. David Wheeless and George F. Sowers, PES:72:I-939
Mine Subsidence and Support Methods in Pittsburgh Area, Richard E. Gray and James F. Meyers, SM4: July 70:1267:7407
Performance Record of Walter F. George Lock and Dam, Robert L. Crisp, Jr., PES:72:I-691
Planning and Performing Compaction Grouting, James Warner and Douglas R. Brown, GT6:June 74:653:10606
Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579: 8947
Present State of the Grouting Industry in the United States, Joseph P. Welsh, EFFD:Mar 74:65
Purpose or Need for Grouting in the Treatment of Foundations, Judson P. Elston, IMROD:Sept 73: 563
Recent Developments in Grouting for Deep Mines, Alfred C. Ackenheil and Murray T. Dougherty, SM1:Jan 70:251:7042
Rock Fracture Spacings, Openings, and Porosities, David T. Snow, SM1:Jan 68:73:5736
Session IV: Other Improvement Techniques (Additives, Grouting, Thermal, Electro, Vibroflotation, Blasting, Compaction, Piles), Roy E. Olson, PISST:71:91
Settlement Control for Cosmotron Base, Jacob Feld, 4PCSM:71:II189
Strengthening Rock by Injection of Chemical Grout, Herbert B. Erickson, SM1:Jan 68:159:5744
Summary — Foundations for Dams, Edward D. Graf, EFFD:Mar 74:465
Technique for Study of Granular Materials, Stephen J. Windisch and Michel Soulie, SM4:July 70:1113: 7389

Growth
Urban Growth and Public Works Planning, John Armour, PWS:Nov 72:3

Growth Rates
Biokinetic Evaluation of BOD Concepts and Data, William E. Gates and Sambhunath Ghosh, SA3: June 71:287:8184

Guardrails
Design Requirements for Safer Highway Bridge Rails, Robert M. Olson, Edward R. Post and Don L. Ivey, TE2:May 71:291:8125
Energy Absorbing Roadside Crash Barriers, Flory J. Tamanini and John G. Viner, CE:Jan 70:63

Guidance
Alternative Paths to Guideway Transportation, William F. Hamilton, UTI:71:385
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
Career Guidance, Ross M. Lanius, Jr., EI2:Apr 74: 111:10465
Committee Rap Sessions (Panel Discussions), CEE: Feb 74:2-254
Demand Responsive Transportation Systems, Daniel Brand, UTI:71:327
Educational TV Film Spots for Engineering, Kaye Finch, Frederick O. Leidel and James R. Villemonte, CEE:Feb 74:1-1015
Improving Urban Highway Transportation through Electronic Route Guidance, Rinaldo Favout, UTI: 71:141
Introduction to Section II: Innovative Transportation Prototypes, Paul L. Sitton, UTI:71:79
Involvement of Practitioners, Broadening the Program, Technology Graduates, Students and Guidance (Panel Discussions), CEE:Feb 74:2-234
Marketing Principles Applied to Engineering Education, George Pincus, CEE:Feb 74:1-1006
StaRRcar Automatic Capsule Transportation, William L. Alden, UTI:71:113
Student Development, Guidance and Minorities in Civil Engineering, Alvin Newman, CEE:Feb 74:2-191

Guide Vanes
Satisfying Water Needs in Southern California, Jack J. Coe, IR2:June 71:233:8193

Gusset Plates
Tests of Gusset Plate Models, Desi D . Vasarhelyi, ST2:Feb 71:665:7901

Gust Loads
Building Dynamics Due to Stochastic Wind Forces, Gary C. Hart, ST3:Mar 70:535:7154
Design Methods Based on Stiffness, Theme Report, Otto Steinhardt, TB:73:II-17-611
Dynamics of Tier Buildings, William Weaver, Jr., Mark F. Nelson and Thomas A. Manning, EM6: Dec 68:1455:6293
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153
Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324
Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, STF:73:49
Gust Factors and Alongwind Pressure Correlations, Emil Simiu, ST4:Apr 73:773:9686
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067
How Safe Are Your Towers?, Joseph R. Arena, ST1: Jan 70:1:6994
Lateral Wind on Side Spans of Suspension Bridges, Ahmet H. Gursoy, ST10:Oct 68:2399:6175
Probability of Plastic Collapse Failure, James L. Jorgenson and John E. Goldberg, ST8:Aug 69:1743: 6751
Response of Structures to Time-Varying Wind Loads, Arthur N.L. Chiu, ST2:Feb 70:381:7104
Treatment of Peak Gusts on Cladding, W. Alan Dalgliesh, ST9:Sept 71:2173:8356
Wind Loading and Wind Effects, Summary Report, S. Mackey, TB:73:Ib-7-445

Gusts
Decrease in Maximum Hurricane Winds After Landfall, Joseph L. Goldman and Toshimitsu Ushijima, ST1:Jan 74:129:10295

Guyed Towers
Approximate Stress Analysis for Guyed Towers, Stan H. Lowy, CE:Mar 72:80
Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988

Guy Wires
Approximate Stress Analysis for Guyed Towers, Stan H. Lowy, CE:Mar 72:80
Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988
GFRP Rod and Rope for Structural Guy Applications, Nixon Halsey, EM4:Aug 74:673: 10715
Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242
Tower: A Design System For Guyed Towers, Karl L. Reichelt, Daniel M. Brown and John W. Melin, EC5:70:377
Tower: Design System for Guyed Towers, Karl L. Reichelt, Daniel M. Brown and John W. Melin, ST1:Jan 71:237:7836

Gypsum Cements
Stress Strain Characteristics of Gypsum Concrete, Jehangir F. Mirza and E. G. Kandasamy, TN: ST12:Dec 72:2831:9400

Hail
Applications Programs of Hail Suppression, Thomas J. Henderson, OIDS:72:403
National Hail Research Experiment, William C. Swinbank, OIDS:72:395
New Water for Northern Plains, Richard A. Schleusener, IR1:Mar 70:53:7145
User's View of Weather Modification, Donald Christy, IR73:Aug 73:165
Weather Modification for Use in High Plains, Richard A. Schleusener and J. R. Miller, Jr., IR3: Sept 74:339:10816

Half Space
Analysis of an Inhomogeneous Elastic Half-Space, W. David Carrier, III and John T. Christian, TN: SM3: Mar 73:299:9632
Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
Elastic Waves in Half-Space with Thin Barrier, Jacob Aboudi, EM1:Feb 73:69:9536
Tilting Foundations, Gerd F. Weissmann, SM1:Jan 72:49:8671

Halloysite
Tjipanundjang Dam in West Java, Indonesia, Laurence D. Wesley, GT5:May 74:503:10543

Halogens
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, NSCD: 71:319
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, NSCD:71:61
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, NSCD:71:37
Current Perspectives in Disinfection, Bernard B. Berger, NSCD:71:1
Effect of Inorganics on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, NSCD:71:85
Halogen Action on Bacteria, Viruses, and Protozoa, Cornelius W. Kruse, Yu-Chih Hsu, Annabel C. Griffiths and Richard Stringer, NSCD:71:113
Status of Methods for Halogen Determination (Br-Cl), Frank W. Sollo, Florence F. McGurk and Thurston E. Larson, NSCD:71:245

Hammers
Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201: 9188

Handbooks
Reinforced Masonry Engineering Handbook by J. E. Amrhein (Book Review), Albert J. Blaylock, CE: Dec 72:11

Handicapped Workers
Architectural Barriers and the Problems of the Handicapped, Edward H. Noakes, MTI:May 72:51
Mobility as It Relates to the Handicapped and the Elderly's - An Overview, Steven C. Provost, BP73: Dec 73:411

Handling Equipment
Barge-Coal Handling at A.S. King Generating Plant, Arthur V. Dienhart and Norris R. Fitch, PO3:June 70:299:7322

Hangars
Application of Computers to Airport Planning and Design, Rufus C. Phillips, III, TE3:Aug 70:341: 7472
Arctic Hangar for Minus 60 Deg F, Ralph Kratz, CE:May 71:72
Hangar Features Stressed-Skin Hypars, Charles H. Thornton and Richard L. Tomasetti, CE:Nov 70:54
Post-Buckled Strength of Large Space-Truss, John P. Wolf, TN; ST:July 73:1708:9828
Wind Loads For National Airlines Hangar In Miami, Frederick M. Law, TN: ST1:Jan 72:421:8619

Hangers
Finite Element Analysis Of Hyperbolic Paraboloid Shells, Semih S. Tezcan, Krishna M. Agrawal and George Kostro, EC5:70:675

Harbor Facilities

All-Weather Tanker Terminal for Cook Inlet, Alaska, William S. Gaither and Robert E. Dalton, WW2: May 69:131:6549

Avalon Transportation Wharf, James W. Dunham, WW2:May 71:371:8104

Burns Harbor-New Lake Port in Indiana, John H. McGavock, CE:Mar 70:36

Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72: 333:9126

Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45

Further Analysis of Optimum Size Seaport, Stephen R.C. Wanhill, WW4:Nov 74:377:10961

Hydraulic Fills to Support Structural Loads, Robert V. Whitman, PISST:71:169

Multipurpose Land-Water Transfer Facility, C. Adrian Arnold, WW2:May 72:253:8903

Newtown Creek Docking Facilities, George Netch, CE:June 69:64

Port Construction At Burns Waterway Harbor, John H. McGavock, Norman R. Loesing and Elvis R. Dye, CO1:Mar 71:17:7990

Regional Application of ASCE Manual No. 50, George T. Treadwell and Robert V. Kycek, WW1: Feb 71:123:7883

Report on Small Craft Harbors, George T. Treadwell, 1970, 139 pp.

Toronto Converts Decaying Waterfront into Parks, Jack M. Jones, CE:Sept 73:74

Harbors

All-Weather Tanker Terminal for Cook Inlet, Alaska, William S. Gaither and Robert E. Dalton, WW2: May 69:131:6549

Analysis Techniques for Houston Ship Channel, Roy W. Hann, Jr., WW2:May 70:171:7258

Armor Stability of Overtopped Breakwater, Patrick T. Lording and John R. Scott, WW2:May 71:341: 8138

Asymptotic Solutions of Resonances in Harbors With Basins, Chih-Lan Su, WW3:Aug 73:375:9954

Avalon Transportation Wharf, James W. Dunham, WW2:May 71:371:8104

Berth Planning by Evaluation of Congestion and Cost, Stavros N. Nicolaou, WW4:Nov 67:107:5577

Boundary Shear Stress in Rivers and Estuaries, Ronald E. Nece and Dungan J. Smith, WW2:May 70:335:7280

Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131

Case History of Los Angeles-Long Beach Harbors, Robert W. Whalin, Claude E. Chatham, Donald L. Durham and Ellis B. Pickett, WAVES:Sept 74:466

Channel Friction and Slope Effects on Harbor Resonance, Richard Paul Shaw and Chi-Kwong Lai, WW3:Aug 74:205:10706

Characteristics and Behavior of Pacific Coast Tidal Inlets, Joe W. Johnson, WW3:Aug 73:325:9927

Congestion in Marina Entrance Channels Due to Sailboats, Allen L. Ely and John M. Nichol, WW4: Nov 73:415:10137

Consideration of Torsional Moment In Design of a Floating Structure, John C. Sonnichsen, Jr., WW1: Feb 69:35:6399

Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157

Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317

Corrosion Test of Steel Piling in Sea Water, Laverne L. Watkins, WW3:Aug 71:549:8292

Damage Function of Rubble-Mound Breakwaters, Jacobus van de Kreeke, WW3:Aug 69:345:6743

Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538

Design Criteria for Single-Point Mooring Terminals, J. M. Langeveld, WW4:Nov 74:305:10931

Development and Future of Dredging, Adolph W. Mohr, WW2:May 74:69:10513

Dynamics of Single Point Mooring in Deep Water, John H. Nath and Michael P. Felix, WW4:Nov 70: 815:7700

Economic Channels and Maneuvering Areas for Ships, Clarence F. Wicker, WW3:Aug 71:443:8308

Economics of Channels and Maneuvering Areas for Ships, Richard G. Waugh, Jr., WW4:Nov 71:671: 8537

Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, Yvon Ouellet, WW1:Feb 72:1:8693

Effect on Waterway Depth and Alignments, Casimir J. Kray, WW2:May 70:497:7305

Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265: 9757

Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367

Equilibrium Flow Areas of Inlets on Sandy Coasts, Morrough P. O'Brien, WW1:Feb 69:43:6405

Estimation of Hurricane Surge Hydrographs, George Marinos and Jerry W. Woodward, WW2:May 68: 189:5945

Evaluation of Harbor Deepening Projects, Sunil K. Bhattacharya and Amarendra N. Biswas, WW1:Feb 73:111:9575

Evolution of Tidewater Port, Chester A. Peyronnin, Jr., WW2:May 70:387:7287

Excitation of Waves Inside a Bottomless Harbor, Noboru Sakuma, Johannes Buhler and Robert L. Wiegel, CE13:72:III-2005

Feasibility of Hydrocyclones for Dredge Spoil, William G. Tiederman and Michael M. Reischman, WW4:Nov 74:361:10953

Field Study of a Tidal Inlet, Bimini, Bahamas, W. Harrison, R. J. Byrne, J. D. Boon, III and R. W. Moncure, 12CEC:71:1201

Floating Breakwaters, David S. Miller, CE:Mar 74:77

Floating Dry Docks for Ship Launching, Kenneth R. Broome and William S. Gaither, WW1:Feb 70:121: 7110

Further Analysis of Optimum Size Seaport, Stephen R.C. Wanhill, WW4:Nov 74:377:10961

Growth of Crenulate Shaped Bays to Equilibrium, Richard Silvester, WW2:May 70:275:7274

Harbor Study for San Nicholas Bay, Peru, James M. Murphy and Emmett J. Murphy, WW2:May 70: 251:7271

Harbor Study for San Nicolas Bay, Peru, James M. Keith and Emmett J. Murphy, 12CEC:71:2195

Irregular Wave Action on Rubble-Mound Breakwaters, Aysen Ergin and Serif Pora, WW2: May 71:279:8114

Laboratory Simulation of Sea Waves, Joseph M. Colonell and Byrne Perry, WW2:May 68:159:5941

A Least-Cost Analysis For The Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, CEO-II:70:269

Longitudinal Motions of Taut Moorings, Tokuo Yamamoto, John H. Nath and Charles E. Smith, WW1:Feb 74:35:10321

Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387

Mekong Delta Mathematical Model Program Construction, Dino Zanobetti, Henri Lorgere, Alexandre Preissmann and Jean Andre Cunge, WW2:May 70:181:7259

Model Study of Transformation of Tsunamis in Urado Bay, Shigehisa Nakamura, Yuichi Iwagaki and Yoshito Tsuchiya, 12CEC:71:2089

Model Tests and Studies For Port Rashid, Dubai, Eric Loewy, 12CEC:71:1137

Multipurpose Land-Water Transfer Facility, C. Adrian Arnold, WW2:May 72:253:8903

New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712

Nonlinear Wave Forces on Halfcylinder and Hemisphere, Subrata K. Chakrabarti and Robert A. Naftzger, WW3:Aug 74:189:10710

Offset Coastal Inlets, Miles O. Hayes, Victor Goldsmith and Carl H. Hobbs, III, 12CEC:71:1187

On Acceleration of Barge Tows, Joseph S. DeSalvo, WW2:May 69:121:6545

On Wave Damping in Harbors, Charles E. Lee, WW4:Nov 68:489:6241

Oscillations in Harbors with Connected Basins, Jiin-Jen Lee and Fredric Raichlen, WW3:Aug 72:311:9094
Pattern Forming Forces in Deltas, Richard Silvester and Catalino del Rosario de la Cruz, WW2:May 70:201:7260
Planning and Construction of the Elizabeth N.J. Port Authority Marine Terminal, Anthony J. Tozzoli and John S. Wilson, CE:Jan 69:34
Plunging Wave Pressures on Semicylindrical Tube, Yuan Jen and Pang-Mou Lin, WW3:Aug 71:567:8342
Queueing at Single-Berth Shipping Terminal, Alan J. Miller, WW1:Feb 71:43:7895
References to Literature on Mooring and Berthing of Ships Mainly Published between 1965 and 1970, Basil W. Wilson, BMS:71:288
Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952
Regional Application of ASCE Manual No. 50, George T. Treadwell and Robert V. Kycek, WW1:Feb 71:123:7883
Regional Approach to Port Development Planning, Howard J. Marsden, WW1:Feb 71:33:7896
Regression Model of Wave Forces on Ocean Outfalls, Ronald E. Johnson, WW2:May 70:289:7275
Report on Small Craft Harbors, George T. Treadwell, 1970, 139 pp.
Resonance in Harbors of Arbitrary Shape, Jiin-Jen Lee and Fredric Raichlen, 12CEC:71:2163
Rio Grande Bar - The Case History of a Lagoon Outlet into a Tideless Sea, V. F. Motta, 12CEC:71:1243
The Schematization for Tidal Computations in Case of Variable Bottom Shape, J. J. Dronkers, CE13:72:III-2369
Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254
Sediment Distribution and Its Relations to Circulation Patterns in Bolinas Bay, California, P. Wilde and T. Yancey, 12CEC:71:1397
Selection of Disposal Areas for Spoil From Baltimore Harbor, John F. Hoffman, 12CEC:71:2267
Sensitivity Analysis of Wind Generated Wave Predictions, Charles D. D. Howard, WW2:May 71:365:8153
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122
Simulation of Piers in Hydraulic Models, David J. Ball, WW1:Feb 74:23:10313
Some Comments on Coastal Engineering, Morrough P. O'Brien, CE13:72:I-3
Spectral Response of Harbor Resonator Configurations, William James, 12CEC:71:2181
Study of Durban Harbor Silting and Beach Erosion, Jan Malan Jordaan, Jr., 12CEC:71:1097
Study of Topolobampo's Bay, Mexico, Entrance, Hector Lopez Gutierrez and Daniel Cervantes Castro, 12CEC:71:1151
Supercarriers Versus U.S. Harbor Dimensions, Francis P. Koisch, WW1:Feb 71:19:7904
Supplement List of Needs in Research on Problems of Berthing and Mooring Ships, Basil W. Wilson, BMS:71:286
Surf Observations Along the United States' Coasts, John M. Darling, WW1:Feb 68:11:5786
Tidal Inlet Problems Along the New England Coast, Oscar E. Arpin, 12CEC:71:1171
Toronto Converts Decaying Waterfront into Parks, Jack M. Jones, CE:Sept 73:74
Tsunami-Responses of San Pedro Bay and Shelf, Calif., Basil W. Wilson, WW2:May 71:239:8107
Two Innovations for Improving Harbor Resonators, William James, WW1:Feb 71:115:7871
Two-Point Mooring System for Spar Buoy, John H. Nath and Steve Neshyba, WW2:May 71:295:8115
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
Views of Port Industry, Roger H. Gilman, WW1:Feb 71:3:7919
Water Depths Required for Ship Navigation, Richard G. Waugh, Jr., WW3:Aug 71:455:8309
Waterfront Renewal in Metropolitan Areas, Donald F. Wood, UP4:Dec 67:199:5673
Wave Attenuation by Porous Walled Breakwater, Eugene P. Richey and Charles K. Sollitt, WW3:Aug 70:643:7468
Wave Defraction by Detached Breakwater, Michael Stiassnie and Gedeon Dagan, WW2:May 72:209:8869
Wave Refraction Near San Pedro Bay, California, Yuan Jen, WW3:Aug 69:379:6749
Wave Transmission by Overtopping, Ralph H. Cross, III and Charles K. Sollitt, WW3:Aug 72:295:9137
Ways to Improve Berthing Operations, Basil W. Wilson, BMS:71:268
Ways to Improve Berthing Operations, Fernando Vasco Costa, BMS:71:273
Dsc, 3 SPM's Planned Off Louisiana Coast, CE:Feb 74:87

Harbor Structures
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
Berth Planning by Evaluation of Congestion and Cost, Stavros N. Nicolaou, WW4:Nov 67:107:5577
Consideration of Torsional Moment In Design of a Floating Structure, John C. Sonnichsen, Jr., WW1:Feb 69:35:6399
Oil Boom for Emergency Harbor Use, Ralph H. Cross, III and John J. Cunningham, WW1:Feb 73:27:9531
Pressures of Partial Standing Waves on Vertical Walls, Shoshichiro Nagai, WW3:Aug 68:273:6054
Rational Design Concept for Breasting Dolphins, Lymon C. Reese, Michael W. O'Neill and N. Radhakrishnan, WW2:May 70:433:7291

Hardening
Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814
Nonisothermal Kinematic Hardening Law in Plasticity, Tse Yung Chang, TN: EM2:Apr 73:423:9641

Hardness
High Pressure Experiments on Soil and Rock, Donald J. Murphy, Jr., RM13:72:691

Harmonic Analysis
Computation of Combined Refraction-Diffraction, J. C.W. Berkhoff, CE13:72:I-471

Harmonic Functions
Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730

Harmonics
Transverse Beam Vibration Nonlinear Constraint, Mohammed Ali Dokainish and Rajnish Kumar, EM6:Dec 72:1381:9431

Hauling
Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408

Hawaii
Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73:691:10046
Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622
Hawaiian Beaches, Franciscus Gerritsen, CE13:72:II-1257
Honolulu Reef Runway Dike, Robert Q. Palmer and James R. Walker, 12CEC:71:1629
Recreational Surfing on Hawaiian Reefs, James R. Walker, Robert Q. Palmer and Joseph K. Kukea, CE13:72:III-2597
Water Quality and Effluent Standards of Hawaii, Gordon L. Dugan, Reginald H.F. Young and L. Stephen Lau, HY9:Sept 74:1245:10824

Hay

Alfalfa Water Table Investigations, Rhys Tovey, IR4: Dec 69:525:6974

Hazards

General Report on Seismic Hazards and Problems, H. Bolton Seed, Julio E. Valera, Rudy J. Dietrich and Walter F. Anton, IMROD:Sept 73:745
Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315
Safety Appraisal of Old Dams: An Updated Perspective, Gurmukh S. Sarkaria, IMROD:Sept 73:405
Toward a Coherent Natural Hazards Policy, John H. Wiggins, CE:Apr 74:74

Head Losses

Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
Crest Losses for Two-Way Drop Inlet, George G. Hebaus, HY3:May 69:919:6570
Energy Loss at Pipe Junctions, Fred W. Blaisdell and Philip W. Manson, IR3:Sept 67:59:5411
Energy Losses at 90° Pipe Junctions, H. Ito and K. Imai, HY9:Sept 73:1353:10022
Flow Around 180 Degree Bends in Open Rectangular Channels, Mostafa M. Soliman and E. Roy Tinney, HY4:July 68:893:6027
Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227
Head Loss at Tsunami-Breakwater Opening, Yoshiyuki Ito, 12CEC:71:2123
Head Losses in Wyes and Manifolds, Eugen Ruus, HY3:Mar 70:593:7130
Rectangular-Bar Trashrack and Baffle Headlosses, John F. Orsborn, PO2:Nov 68:111:6223
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107

Headwaters

Effects of Forest Management on Stream Temperature, George W. Brown, IAWM:72:93

Health

Air Pollution -- A Chest Physician's View, Anne Logan Davis, CEWAU:74:141
Bikeways in National Capital Parks, Thomas DeHaven, BP73:Dec 73:547
Bikeways - The Federal Role, Julian Rhinehart, BP73:Dec 73:13
Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72: 645:9282
Civil Engineering in Health Care Systems, Tung Au, PP1:Oct 71:87:8470
The Civil Engineer in the Food Industry, George E. Weatherford, CE:Aug 74:91
Construction and Maintenance, Howard Gregg, BP73:Dec 73:155
Fulton Arcade (A Pedestrian/Transitway in Downtown Brooklyn), Richard M. Rosan, BP73: Dec 73:80
Health Aspects of Water Management, Daniel A. Okun, PWS:Nov 72:133
The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292
Mall Planning Strategy, Don C. Miles, BP73:Dec 73: 675
Now That You Have One, What Have You Done For Your Bikeway Lately?, John M. Freiermuth, BP73:Dec 73:151
Overview of the Health Care Services Industry, Robert A. Tschetter, PP4:Oct 72:655:9283
Pedestrian Mall: Purpose, Form, Design, Success, Crawford C. Westbrook, BP73:Dec 73:74
Public and Legislative Support for Bikeways, John Auerbach, BP73:Dec 73:20
Public Health Effects of Water, Air and Land Pollution, Gwilym M. Roberts, PWS:Nov 72:117
Recommendations for Urban Health, Everett MacLeman, CEWAU:74:158
The Role of the Civil Engineer in Statewide Health Planning, William H. Wisely, PP4:Oct 72:669:9284
Shotcrete Safety and Environmental Control, Robert C. Bates, SUSS:July 73:130
Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73: 59:9493
A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286

Health Insurance

Civil Engineering in Health Care Systems, Tung Au, PP1:Oct 71:87:8470

Heat Budget

Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2: Oct 72:253:9241

Heated Water

Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Heated Water Jet in Coflowing Turbulent Stream, Mostafa A. Shirazi, Raul S. McQuivey and Thomas N. Keefer, HY7:July 74:919:10661
Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, HY11:Nov 72:1983:9372
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385
Shape Factors for Cooling Lakes, John Eric Edinger, PO4:Dec 71:861:8616
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35

Heat Exchangers

Dry-Type Hyberbolic Cooling Tower, Paul Rogers and Laszlo Heller, CE:Oct 72:56
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
A Simplified Approach to Compute Natural Frequencies of Vertical Tanks and Heat Exchangers with Skirt Supports, Chi-Wen Lin, SDNPF:Dec 73: 35

Heat Flux

Power Plant Cycles for Dry Cooling Towers, Paul Leung and Raymond E. Moore, PO4:Dec 71:729: 8565

Heating

Computers: Key to Integrated Building Design, Kenneth F. Reinschmidt, CE:Mar 72:74
Criteria for Heat Curving Steel Beams and Girders, Roger L Brockenbrough, ST10:Oct 70:2209:7638
Experimental Stresses and Strains from Heat Curving, Roger L. Brockenbrough and Kenneth D. Ives, ST7:July 70:1305:7400
Le Chateau Champlain, T. A. Monti, TB:73:C-P-278
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389
Service Systems, Theme Report, Richard Baum, TB: 73:Ia-2-305
Solar Heating and Cooling: Untapped Energy Put to Use, George O.G. Lof and Dan S. Ward, CE:Sept 73:88
A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, John P. Eberhard, TB:73:Ia-1-133

Theoretical Stresses and Strains from Heat Curving, Roger L Brockenbrough, ST7:July 70:1421:7410

Heat Loss
Arctic Hangar for Minus 60 Deg F, Ralph Kratz, CE:May 71:72
Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191

Heat of Hydration
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588

Heat Recovery
Designing Energy-Conserving Buildings, Eugene E. Dallaire, CE:Apr 74:54

Heat Transfer
Chesapeake Bay Model Study for Calvert Cliffs, Lawrence C. Neale, PO4:Dec 71:827:8602
The Dissipation of Excess Heat from Water Systems, Harvey E. Jobson, PO1:May 73:089:9702
Effect of Seepage Stream on Artificial Soil Freezing, Hadi T. Hashemi and Cedomir M. Sliepcevich, SM3:Mar 73:267:9630
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF: Aug 72:641
Two-Dimensional Surface Warm Jets, Robert C. Y. Koh, HY6:June 71:819:8186

Heat Treatment
Hutchinson Island Nuclear Containment Structure, Ronald G. Moreland and Richard L. Bentley, PO1: May 73:041:9714
Mathematical Evaluation of Gaseous and Dry Heat Treatments, C. R. Stumbo, NSCD:71:469

Heaving
Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207
Design of Compensated Foundations, State-of-Art Report 1, Leonardo Zeevaert, TB:73:Ia-11-853
The Gloucester Test Fill, Michael Bozozuk and Gerald A. Leonards, PES:72:I-299
Oxidation and Heave of Black Shale, Robert M. Quigley, James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703
Review of Expansive Soils, Gerald J. Gromko, GT6: June 74:667:10609

Heavy Metals
Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73: 257:9753
Metal Toxicity to Sewage Organisms, Calvin P.C. Poon and Kiran L. Bhayani, SA2:Apr 71:161:8020

Height
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72, 171pp.
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Tall Buildings: Major Characteristics, State-of-Art Report 1, E. Ozer, N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93
Variation of Mean Winds with Height in Hurricanes, Emil Simiu, TN: EM4:Aug 74:832:10692

Hele-Shaw Model
Moving Water Tables in Tile-Drained Soils, Nazar M. Awan and Terence O'Donnell, IR3:Sept 72:459: 9167
Unsteady Free Surface Ground Water Seepage, Rameshwar D. Verma and Wilfried Brutsaert, HY8: Aug 71:1213:8337

Helicopters
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155

Heliports
Planning for Satellite Airports, Walter Gelerman and Richard de Neufville, TE3:Aug 73:537:9951
V/STOL Concepts for Short Haul Air Transport, Bernard L. Fry and R. William DeDecker, TE3: Aug 71:411:8277

Hemispheres
Free Surface, Velocity Gradient Flow Past Hemisphere, Gordon H. Flammer, J. Paul Tullis and Earl S. Mason, HY7:July 70:1485:7418
Nonlinear Wave Forces on Halfcylinder and Hemisphere, Subrata K. Chakrabarti and Robert A. Naftzger, WW3:Aug 74:189:10710

Hepatitis
Viral Pollution and Depuration of Shellfish, Oscar C. Liu, NSCD:71:397

Herbicides
Environmental Aspects of Aquatic Plant Control, Thomas R. Bartley and Edward O. Gangstad, IR3: Sept 74:231:10810
Environmental Considerations in the Use of Herbicides on Reclamation Projects, John E. Knoll, OIDS:72:205
Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851

Heterogeneity
Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and Tor L. Brekke, RM14:73:481

Heuristic Methods
Building Construction Games-General Description, Tung Au and Ernest W. Parti, CO1:July 69:1:6645
Construction Management Game-Deterministic Model, Tung Au, Richard L. Bostleman and Ernest W. Parti, CO1:July 69:25:6647
Heuristic Scheduling Procedures for PRT System, Patrick R. Esposito, TE4:Nov 74:845:10910
Optimality of Heuristic Sequencing Technique, Thomas L. Morin, TN: HY8:Aug 74:1195:10748
Optimum Housing Allocation Model for Urban Areas, R. S. Atkins and Edward M. Krokosky, UP1:Apr 71:41:8022
Project Planning Game for Foundation Excavation, Tung Au and Ernest W. Parti, CO1:July 69:11:6646

High Pressure
Undrained Strength of Compacted Clay, Kenneth L. Lee and Robert J. Shubeck, SM1:Jan 71:219:7833

High Strength Bolts
Factors Affecting Environmental Performance of High-Strength Bolts, Walter K. Boyd and W. S. Hyler, ST7:July 73:1571:9866
High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410

High Strength Concretes
Chemical Resistant Resurfacing Mortar for Industry, Dallas Grenley and Lou Kuhlmann, CO2:June 74: 133:10603
Walt Disney World Monorail Designed for Smooth Riding, Robert F. Mast and Charles W. Dolan, CE: Mar 72:48

High Strength Steels
Design and Construction of Mossyrock Penstocks, Edgar T. Moore, PO1:Jan 71:49:7799
Fatigue of Bolted High Strength Structural Steel, Peter C. Birkemoe and Ramachandran Srinivasan, ST3:Mar 71:935:7997
Walt Disney World Monorail Designed for Smooth Riding, Robert F. Mast and Charles W. Dolan, CE: Mar 72:48

High Water Mark
The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979

Highway Beautification
California County Considers Esthetics, Victor Sauer, CE:Nov 73:70
Esthetics in Highway Design, Donald Van Riper, CE: Apr 72:47

Highway Effects
Environmental Impact of the New Jersey Turnpike Toms River Extension, John C. Goodrich and Byron H. Willis, UT73:May 73:253

Highway Engineering
Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE1:Feb 72:37:8699
Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2: May 73:405:9745
Analysis of Symmetrically Loaded Slab on Elastic Solid, Yang H. Huang, TN: TE2:May 74:537:10511
Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
Bridge Design Considering Scour and Risk, Emmett M. Laursen, TE2:May 70:149:7262
Bus Transit, Lester A. Hoel, CE:Mar 73:79
Concrete Safety Barrier Design, Edwin C. Lokken, TE1:Feb 74:151:10356
Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1: Feb 72:17:8695
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Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72: 311:8858
Dynamic Programming of Highway Safety Projects, Marvin M. Johnson, Charles E. Dare and Harry B. Skinner, TE4:Nov 71:667:8534
Economic Criterion for Highway Capacity Determination, Bruce G. Hutchinson, TE3:Aug 72: 465:9120
Effect of Openings on Stresses in Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE2:May 73:255:9721
Engineering Guidelines for Highway Noise Shield Design, J. Kenneth Manhart, TE4:Nov 74:909: 10926
Esthetics in Highway Design, Donald Van Riper, CE: Apr 72:47
Evaluation of National Priorities: The Post Interstate Highway System, Paul L. Sitton, UTI:71:3
Evaluation of Synthetic Aggregate from Lignite Fly Ash, Roger L. Engelke, William B. Ledbetter and Bob M. Gallaway, TE1:Feb 74:27:10337
Evaluation of Urban Road Projects, Alfred Goldstein, PWS:Nov 72:203
Factors Affecting Performance of Pavement Systems, William Ronald Hudson, B. Frank McCullough and Fred N. Finn, TE3:Aug 69:505:6740
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
Finite Element Analysis of Pile-Supported Pavement Structures, Raman Pichumani, John E. Crawford and George E. Triandafilidis, TE2:May 74:293: 10516
Finite Element Analysis of Slabs on Elastic Solids, Yang H. Huang, TE2:May 74:403:10535
Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139
Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923
Highway Access for Dallas-Fort Worth Airport, Billy R. Rogers, ASC73:Mar 73:95
Highway and Modal Choice Decisions, Donald A. Morin, TE1:Feb 73:145:9569
Highway and Utility Share Corridor, John Berkowitz, CE:Nov 74:61
The Highway Engineer on Trial, Paul W. Clark, CE: Sept 73:60
Highway Noise and Acoustical Buffer Zones, Asadullah Zulfacar and C. Scott Clark, TE2:May 74:389:10520
Implications of Using Layered Theory in Pavement Design, John P. Nielsen, TE4:Nov 70:495:7662
Improving Environmental Impact Procedures for Highway Projects, James Cianciosi and Allan G.R. Bullen, UT73:May 73:33
Kinematic Sound Screen: Unique Solution to Highway Noise Abatement, John B. Hauskins, TE1: Feb 74:169:10353
La Defense, Duiliu Sfintesco, TB:73:Ia-1-274
Long-Span Bridge: Utility, Grace at Low Cost, Harry M. Montgomery and Roger D. Troxell, CE: May 72:73
Major Research Studies on Signs, Lights and Guardrails, James R. Novak and Krieger W. Henderson, Jr., TE4:Nov 70:523:7663
More Efficient Local Rural Road Administration, William D. Berg, TE4:Nov 74:975:10942
Need for Estimated Cement Requirements for Stabilizing Lateritic Soils, Samuel A. Ola, TE2:May 74:379:10534
New Directions and Techniques in Highway Location Planning, Stanley L. Peters, TE2:May 74: 305:10518
Offsets to Sight Obstructions Near the Ends of Horizontal Curves, William L. Raymond, Jr., CE: Jan 72:71
Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728
Participation Planning for Boston Metro-Area Transportation, John G. Wofford, CE:Apr 73:78
Paved Highway Shoulders and Accident Experience, Clinton L. Heimbach, William W. Hunter and George C. Chao, TE4:Nov 74:889:10921
Pavement Evaluation by Wave Propagation Method, Keshavan Nair, TE1:Feb 71:83:7900
Photogrammetric Surveying in Highway Programs, James E. Newman, SU2:Nov 71:297:8539
Practitioners Teach Students Art of Highway Engineering, David A. Novick, Howard S. Newman and Eben Vey, CE:Jan 72:45
Prismatic Solid Analysis of Pavement Structures, Raman Pichumani and John E. Crawford, GT74: June 74:303
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
Public Participation in the I-66 Corridor Transportation Alternates Study, John P. Fowler, II, UT73:May 73:11
Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932
State of Practice — Subsurface Investigation for Highway Tunnels, David S. Gedney, EFSE:Aug 74: 36
Stochastic Model for Analysis of Pavement Systems, Hani Findakly, Fred Moavenzadeh and Joseph Soussou, TE1:Feb 74:57:10358
Subgrade Strengthening of Existing Airfield Runways, Quentin L. Robnett, TE2:May 73:267:9724
Technical Movie of Papago Freeway, John Girand, TE4:Nov 71:619:8506

Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555
The Trans-Alaska Pipeline Story, E. L. Patton, TE1: Feb 73:139:9573
Truck escape lanes on mountain roads, Glenn S. Baldwin, CE:July 74:64
Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
Warping Stresses In Slabs On Reissner Foundation, Annapareddy Siva Reddy and Mysore R. Pranesh, TE3:Aug 71:511:8332

Highway Icing
California Seals Salt-Damaged Bridge Decks, Robert L. Boulware and Arthur L. Elliott, CE:Oct 71:42

Highway Lighting
Technical Movie of Papago Freeway, John Girand, TE4:Nov 71:619:8506

Highway Planning
Bikeway Planning and Design, H. M. Huffman, Jr., BP73:Dec 73:655
Bikeway Planning and Implementation - The Maryland Experience, Paul R. Farragut, BP73:Dec 73:288
Bikeways, Bikeway Planning and Bicycling, Keith Kingbay, BP73:Dec 73:526
California County Considers Esthetics, Victor Sauer, CE:Nov 73:70
Citizens help plan Ottawa freeway, CE:July 74:60
The Civil Engineer and Highway Safety, CE:Nov 70:63
Computer Model for Highway Noise Prediction, Kenneth E. Nelson and Joseph L. Schofer, TE2: May 74:325:10517
Correlation of Environmental Impact Evaluations and Highway Transportation Planning, Gerald D. Love, UT73:May 73:71
Costs and Benefits of Reducing Bicyclists' Exposure to Road-Side Air Pollution, Mike Everett, BP73: Dec 73:352
Ecological Assessment of Transportation Alternatives, Jason M. Cortell and Donald A. Yonika, UT73:May 73:143
Ecological Impacts of Freeway Construction, Norbert Pointner, UT73:May 73:215
The Environmental Capacity of Roadway Networks, Robert J. Maxman and Carl P. Sharpe, UT73:May 73:237
Environmental Impact of the New Jersey Turnpike Toms River Extension, John C. Goodrich and Byron H. Willis, UT73:May 73:253
Environmental Studies for Rocky Mountain Highway, Austin B. Milhollin, UP1:Mar 74:17: 10387
Evaluation of Urban Road Projects, Alfred Goldstein, PWS:Nov 72:203
Getting the Job Done, Carl Berkowitz and Richard Cohen, BP73:Dec 73:282
Highway Access for Dallas-Fort Worth Airport, Billy R. Rogers, ASC73:Mar 73:95
A Highway Administrator Looks at Community Values, J. A. Legarra and T. R. Lammers, CE:Sept 69:54
The Highway Engineer on Trial, Paul W. Clark, CE: Sept 73:60
Highway Noise and Acoustical Buffer Zones, Asadullah Zulfacar and C. Scott Clark, TE2:May 74:389:10520
Improving Environmental Impact Procedures for Highway Projects, James Cianciosi and Allan G.R. Bullen, UT73:May 73:33
Keynote Address, Oscar S. Gray, ABS:71:1
Local Legislation and Its Impact on Transportation, Fred C. Hart, UT73:May 73:63
Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350
Mobility as It Relates to the Handicapped and the Elderly's - An Overview, Steven C. Provost, BP73: Dec 73:411
Modeling Transportation Impact on Air Quality, Ralph C. Sklarew, D. Bruce Turner and John R. Zimmerman, UT73:May 73:127
Montana Highway and Wildlife Professions Cooperate, John C. Peters, CE:Nov 70:58
The Morgantown Personal Rapid Transit Project, Bernard J. Vierling, BP73:Dec 73:483
New Directions and Techniques in Highway Location Planning, Stanley L. Peters, TE2:May 74: 305:10518
Planning and Designing for the Pedestrian Environment, Anthony R. Ameruso, BP73:Dec 73: 204
Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315
Planning's Role in Standards for Future Highways, Ralph D. Brown, Jr., TE2:May 71:227:8129
Precompression Analysis for Highway Embankments, Raymond J. Krizek and Peter K. Krugman, GT74: June 74:111
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
Prospects for Bicycle Transportation, Jason C. Yu, BP73:Dec 73:645
Public Participation in the I-66 Corridor Transportation Alternates Study, John P. Fowler, II, UT73:May 73:11
The Relationship Between Highway Planning and Urban Noise, C. Michael Hogan and Gary L. Latshaw, UT73:May 73:109
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932
Selected Approaches to Environmental Impact Evaluation of Regional Alternatives, Salvatore J. Bellomo and Sally D. Liff, UT73:May 73:273
Subsurface Investigation System Planning for Highway Tunnels, James L. Ash, Bruce E. Russell and Robert R. Rommel, EFSE:Aug 74:97

Highway Relocation
Environmental Design and Construction Response on Highway Relocations for Mountain Reservoir, Phillip L. Cole and Sydney Steinborn, CO1:Mar 74: 7:10398

Highways
Alaska Builds Highway Over Muskeg and Permafrost, John C. Becker, CE:July 72:75
Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2: May 73:405:9745
Analytical Plotter System, James R. Skidmore, SU2: Sept 70:253:7559
Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
Asphalt Paving Technology-Some Current Developments and Trends, Louis L. Monismith, CE:Aug 69:45
Assessing the Prospects of Current Transit Proposals, Martin Wohl, UTI:71:43
Balanced Highway-Airport Design, Henry K. Evans, TE1:Feb 69:213:6420
Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
Base Year Trip Tables for Statewide Traffic Models, Dana E. Low, TE3:Aug 69:559:6752
Bayonne River Bridge, Claude Bourgeois, CE:June 69:43
Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
Breaking Load for Rigid Pavement, K. K. Ghosh and M. Dinakaran, TE1:Feb 70:87:7108
Buses Get Exclusive Use of Freeway Median, Marvin C. Gersten and Jeanine M. Kahan, CE:July 70:68
CE People: Roads Come To Remote Areas Of Lesotho Thanks To Young CE, CE:Nov 73:87
Chicago's Crosstown Expressway, Milton Pikarsky, CE:Sept 70:84

The Civil Engineer and Highway Safety, CE:Nov 70:63

Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570

Computer Model for Highway Noise Prediction, Kenneth E. Nelson and Joseph L. Schofer, TE2:May 74:325:10517

Concrete Median Barrier Safely Redirects Impacting Vehicles, Edwin C. Lokken, CE:Oct 71:77

Concrete Pipe Culvert Behavior - Part 2, Raymond Eugene Davis and Alfred E. Bacher, ST3:Mar 74:615:10408

Concrete Pipe Culvert Behavior—Part 1, Raymond Eugene Davis, Alfred E. Bacher and John C. Obermuller, ST3:Mar 74:599:10404

Construction Cost of Expressways, Barbara A. Huvane, TE2:May 71:173:8113

Contributions of the Federal-Aid Highway Program, Francis C. Turner, CE:June 70:71

Criteria for Heat Curving Steel Beams and Girders, Roger L Brockenbrough, ST10:Oct 70:2209:7638

Criteria for Locating Major Streets and Urban Freeways, Edward M. Hall, Chmn., HY1:June 68:21:5975

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Dallas-Ft. Worth: World's Largest, Best Planned Airport, Eugene E. Dallaire, CE:July 73:53

Design Requirements for Safer Highway Bridge Rails, Robert M. Olson, Edward R. Post and Don L. Ivey, TE2:May 71:291:8125

Developing an Improved Traffic Operations Program, Peter A. Mayer, TE2:May 71:263:8099

Double-Decking an Expressway, A. A. Trinidad, Jr., CE:Dec 69:59

The Driver and the Road, Donald L. Woods, TE4:Nov 71:609:8513

Dynamic Programming of Highway Safety Projects, Marvin M. Johnson, Charles E. Dare and Harry B. Skinner, TE4:Nov 71:667:8534

The Economics and Importance of Speed, Herbert S. Levinson, HW1:June 68:1:5972

Effect of Load Placement on Rigid Pavement Behavior, Harvey J. Treybig, William Ronald Hudson and B. Frank McCullough, TE4:Nov 71:681:8543

Effects and Control of Highway Traffic Noise, James E. Shahan and George W. Kamperman, TE2:May 73:307:9726

Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46

Engineering Properties of Mine Tailings, Howard C. Pettibone and C. Daniel Kealy, SM9:Sept 71:1207:8382

Engineer's Notebook: Preliminary Flow Profiles For Highway Engineers, Eugene Allen Gulliver, CE:Dec 73:49

Engineers Study Highway Safety, A. C. Estep, CE:Mar 70:68

Environmental Design and Construction Response on Highway Relocations for Mountain Reservoir, Phillip L. Cole and Sydney Steinborn, CO1:Mar 74:7:10398

Environmental Impact of the New Jersey Turnpike Toms River Extension, John C. Goodrich and Byron H. Willis, UT73:May 73:253

Environmental Litigation: Lessons From the Courts, William K. Johnson, CE:Jan 72:55

Estimation of Deep Freezing Indices, George McCormick, TE3:Aug 71:401:8276

Evaluation of Urban Road Projects, Alfred Goldstein, PWS:Nov 72:203

Experiences with Interdisciplinary Teams, Norman M. Klein, ABS:71:83

Experimental Stresses and Strains from Heat Curving, Roger L. Brockenbrough and Kenneth D. Ives, ST7:July 70:1305:7400

Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097

FHWA Traffic Research Program, Carl F. Izzard, TE2:May 71:333:8133

Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885

Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, Marshall U. Bagwell, CE:Feb 73:45

Graphic Analysis of Roadway Runoff, James B. Wolfson, CE:June 71:64

Grouping Algorithms for Statewide Loadmeter Surveys, Shiva K. Pant and Frederick J. Wegmann, TE3:Aug 71:421:8288

High Fills Resting on Residual Soils (in Spanish), Christian K. De Fries and Edgar Pardo Stolk, 4PCSM:71:II153

A Highway Administrator Looks at Community Values, J. A. Legarra and T. R. Lammers, CE:Sept 69:54

The Highway Engineer on Trial, Paul W. Clark, CE:Sept 73:60

The Highway Explosion, Albert A. Bartlett, CE:Dec 69:71

Highway Noise and Acoustical Buffer Zones, Asadullah Zulfacar and C. Scott Clark, TE2:May 74:389:10520

Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906

Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066

Incorporating Highway Safety into Level of Service, Walter J. Diewald, TE[illegible]:May 74:417:10557

Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101

Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742

Is Joint Development the Chicken, or the Egg?, Constantine Sidamon-Eristoff, TE3:Aug 71:469:8315

Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880

Liaison-Key to Highway and Agricultural Drainage Programs, Carroll J.W. Drablos and Benjamin A. Jones, Jr., IR1:Mar 69:185:6479

Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340

Management System Saves Highway Maintenance Dollars, Forrest E. Crawford, CE:Aug 71:36

Mapping for the Pennsylvania Highways, Victor W. Anckaitis, SU2:Oct 67:103:5530

Milwaukee Installs Concrete Median Barriers, Daniel A. Kastenholz, CE:July 73:88

Modern Day Surveys for Highway Location and Design, Jon S. Beazley, SU1:Apr 70:11:7196

Modern Design of Concrete Pavements, Phil Fordyce and W. A. Yrjanson, TE3:Aug 69:407:6726

Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096

New Highway Bridge Dimensions for Safety, John N. Clary, TE2:May 71:371:8152

On the Applications of ICES and Universal Program Software Systems, Louis H. Klotz, CE:Feb 69:72

Optimal Construction Staging by Dynamic Programming, Monroe L. Funk and Frank A. Tillman, HW2:Nov 68:255:6215

Optimal Highway Staging by Dynamic Programming, Richard de Neufville and Yasuo Mori, TE1:Feb 70:11:7080

Optimal Selection of Flexible Pavement Components, Salim S. Hejal, Thomas R. Buick and Joseph C. Oppenlander, TE2:Feb 71:1:7877

Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73:725:10126

Optimum Curvature Principle in Highway Routing, Bernard E. Howard, Z. Bramnick and Jocelyn F.B. Shaw, HW1:June 68:61:5987
Overall Planning of the Bay Area Rapid Transit DistrictProject, David G. Hammond, TE2:May 69:347:6548
Participation Planning for Boston Metro-Area Transportation, John G. Wofford, CE:Apr 73:78
Pavement Evaluation and Design for Jumbo Jets, Bernard A. Vallerga and B. Frank McCullough, TE4:Nov 69:639:6895
Permanent Deformation in Asphaltic Materials, Geoffrey E. Blight, TE1:Feb 74:263:10327
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Planning Implications of Urban and Rural Freeway Interchanges, Herman A.J. Kuhn, UP1:Apr 69:81:6521
Planning's Role in Standards for Future Highways, Ralph D. Brown, Jr., TE2:May 71:227:8129
PPB System Implications on Future Highway Program, Roy E. Jorgensen, TE2:May 69:373:6566
Prefabricated Highways, William Zuk, TE2:May 72:387:8895
Private Engineering in Public Works, William A. Bugge, TE1:Feb 69:67:6396
Problems of Designing Roadway Structures, William Ronald Hudson, TE2:May 69:289:6542
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
Progress in Asphalt Pavement Thickness Design, Alfred W. Maner, CE:Mar 70:39
Proposals for Gaining Acceptance for Gaining Acceptance for Urban Freeways, Andrew S. Balbiani, Richard J. Naish and Daniel M. Reisner, TE4:Nov 70:585:7672
Proposed Santa Monica Causeway Project, James W. Dunham, WW4:Nov 68:425:6219
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
Regional-Local Conflicts in Transportation Planning, Harvey R. Joyner, TE3:Aug 72:515:9136
Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59
Reinforced Earth Steel Retaining Walls Used on High Steep Side Slopes in France, Henri Vidal, CE:Feb 70:72
Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504
Research Programs on Pipeline Crossings, William F. Quinn, TE3:Aug 70:283:7457
Revolution in Urban Highway Planning, ASCE Committee on Highway Planning and Economics of the Highway Division, Dana E. Low, Chmn., TE1:Feb 71:145:7916
Right-of-Way Surveys, Joe A. Hicks, Jr., SU2:Sept 68:227:6121
Sand Fill Pumped 15 Miles for Interstate Construction, John W. Sill, CE:Feb 71:44
San Francisco Freeway Revolt, William H. Lathrop, Jr., TE1:Feb 71:133:7876
Seepage Towards Highway Cuts, Abdel-Aziz I. Kashef, TE4:Nov 69:667:6912
Service Volumes for Functional Classification, Thomas R. Bright, TE4:Nov 70:561:7671
Significance of Variably Confined Triaxial Testing, John J. Allen and Marshall R. Thompson, TE4:Nov 74:827:10911
Soil-Cement Bases Under Thin Bituminous Surfacing, Boniface C. Obi, TE2:May 72:167:8871
Sprinkle Treatment Increases Highway Skid Resistance, George W. Maupin, Jr., CE:Feb 72:51
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140
Survey of Ground-Access Problems at Airports, Reginald J. Sutherland, Chmn., TE1:Feb 69:115:6415
Synthetic Through Trip Patterns, David G. Modlin, Jr., TE2:May 74:363:10526
Theoretical Analysis of Interchange Composition, Ken-ichi Takebe, TE:Aug 69:483:6737
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
Transportation in Regional Plan for 1970's, W. John Hossack and J. Richard Hocking, TE4:Nov 70:633:7648
Tubular Sections in Highway Structures, Richard N. White, HW2:Nov 68:161:6227
Turn Penalty Effects on Minimum Time Paths, Donald L. Woods, J. T. Brudeseth and Vergil G. Stover, TE4:Nov 69:659:6896
The Unsymmetrical Vertical Parabola, Robert P. Vreeland, SU1:Jan 68:61:5739
Urban Riverside Environmental Analysis, J. Robert Moore, UP1:Apr 71:105:8066
Use of Air Rights over Urban Expressways, Thomas F. Airis, TE2:May 69:357:6550
Use of Air Space Over Freeway Systems, Lyall A. Pardee, UP1:Apr 69:61:6519
User-Optimized Traffic Assignment, Frank J. Hatfield, TE2:May 74:313:10519
Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2:May 72:285:8914
Water Pollution and Associated Effects from Street Salting, Richard Field, Edmund J. Struzeski, Jr., Hugh E. Masters and Anthony N. Tafuri, EE2:Apr 74:459:10473
Watts Revisited: Transportation and Community Values: Century Freeway, Stuart L. Hill, CE:Sept 69:56
Wearability of PC Concrete Pavement Finishes, Alvin H. Meyer, TE3:Aug 74:719:10736
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52
The 1-Point Procedure, R. A. Georgi, CE:Feb 71:60

Highway Transportation
Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570
Fatigue Damage of Asphalt under Compound-Loading, James McElvaney and Peter S. Pell, TE3:Aug 74:701:10730
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
The Legislation of Balance, Milton Pikarsky, TE3:Aug 73:483:9938
The Other Side of "The Highway Explosion", Carlton C. Robinson, CE:Feb 71:47
Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487
"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73:59
Service Volumes for Functional Classification, Thomas R. Bright, TE4:Nov 70:561:7671
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140
Transportation Research Needs in Civil Engineering, Robert F. Baker, TE3:Aug 71:541:8343
The 1970's: Civil Engineering Forecast-Part III, Kneeland A. Godfrey, Jr., CE:July 70:51

Hinged Structures
Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72:1161:8922

Histograms
Methodes de Mesure et Traitement de la Houle, Rene Bonnefille, CE13:72:I-315
Researches on the Deformation of Wave Spectra in Intermediate Water Area by Calculation, Frederick L.W. Tang and Shan-Hwei Ou, CE13:72:I-271

History
The American Engineer's Nateria Universalis, Neal FitzSimons, CE:June 70:81
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
Beginning of Quantitative Hydrology, Asit K. Biswas, HY5:Sept 68:1299:6123
Benjamin Prescott and the Hampshire Machine, Neal FitzSimons, CE:Dec 70:68
Benjamin Wright-The Father of American Civil Engineering, CE:Sept 70:68

Bibliography on Latticed Structures, Donald R. Sherman, Chmn., ST7:July 72:1545:9055
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Brooklyn Bridge -- Introduction, M. D. Morris, CEWAU:74:25
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Creativity and the Civil Engineer, Lucius R. Boley, CEWAU:74:6
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Dr. Santorio's Water Current Meter, Circa 1610, Arthur H. Frazier, HY1:Jan 69:249:6351
Early American Tunnels: The First Fifty Years, Neal FitzSimons, CE:July 70:49
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
The Elder Latrobe and the European Link, Neal FitzSimons, CE:Jan 70:82
Ellet's Contribution to the Development of Suspension Bridges, Emory L. Kemp, PP3:July 73:331:9872
Engineering Education and the Origins of Modern Structures, David P. Billington, CE:Jan 69:52
Engineering 1972-A Review, Thomas C. Kavanagh, PP3:July 73:287:9889
Ferdinand Hassler: The Great Triangulator, Neal FitzSimons, CE:Mar 71:87
Fifty Years in Surveying-Mapping-and the Future, George D. Whitmore, SU1:Oct 69:143:6860
Forms for Concrete Dams, Art E. Freyre, ECCD:72:265
Forty Years of ASCE and "Civil Engineering", Mary E. Jessup, CE:Oct 70:59
Grouting: Then, Now and Where, J. F. Daly, EFFD:Mar 74:57
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment, Thomas A.L. Paton, PWS:Nov 72:81
Historical Steel Frame in France, Duiliu Sfintesco, TB:73:Ia-1-268
History and Future of Ohio River Navigation, Carl H. Gaum, WW2:May 70:483:7304
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The History of the Dutch Coast in the Last Century, W. T. Bakker and D. Sj. Joustra, 12CEC:71:709
Dsc, History of Water Resource Development, Gene M. Gressley, CE:Mar 72:61
Hydraulicians are Human Too, Hunter Rouse, HY5:May 72:875:8877
Industrial Archaeology - An Avocation for Engineers, Emory L. Kemp, PP4:Oct 73:481:10087
International Challenge to Airports, Kenneth K. Wilde, TE3:Aug 70:269:7455
Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672
Keynote Address: The Performance of Earth Structures and Foundations, T. William Lambe, 4PCSM:72:III7
L'heritage Francais, Neal FitzSimons, CE:May 71:85
Managing Multiriver System—Past, Present, and Future, R. Gene Pollan, HY10:Oct 74:1429:10873
Manning Formula-A Misnomer, Garnett P. Williams, HY1:Jan 70:193:7036
A Man of Hydraulics: Henri de Pitot (1695-1771), Rene Chevray, HY4:July 69:1129:6650
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276
A National Landmark, Robert E. White, CEWAU:74:32
New York City Hall, Alfred C. Maevis, CEWAU:74:33
Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106
Pollution Fighters: Rudolph Hering, Neal FitzSimons, CE:Oct 71:100
Professional Athletics -- Introduction, M. D. Morris, CEWAU:74:73
Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833
Rapid Creek Watershed, Donald A. Thorson, HYB:Aug 73:449
The Reminiscences of John B. Jervis, Engineer of the Old Croton, Edited by Neil Fitzsimons (Book Review), William D. French, CE:July 72:8
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Robert Hooke's Water Current Meter, Circa 1663, Arthur H. Frazier, HY1:Jan 69:439:6369
Scenario for a Third Computer Revolution in Structural Engineering, Steven J. Fenves, ST1:Jan 71:3:7812
Some Comments on Coastal Engineering, Morrough P. O'Brien, CE13:72:I-3
Stars in the Water-The Story of the Erie Canal (Book Review-J. W. Briscoe), George E. Condon, CE:Oct 74:32
Structural Design of Masonry Buildings, Walter L. Dickey, TB:73:III-27-1057
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Use of Shotcrete from the Standpoint of the Owner, Gordon M. Miner, SUSS:July 73:13
Venice Waterways Project Impact Reports, Donald C. Tillman and Lloyd D. Paulsen, UP2:Nov 74:191:10935
Wanted: One Civil Engineer, Neal FitzSimons, CE:Jan 71:52
Water and Health-Are We Concerned Enough?, Walter A. Lyon, SA5:Oct 70:1147:7595

Water and Pavement Performance, Harry R. Cedergren and Kneeland A. Godfrey, Jr., CE:Sept 74:78

Why Man Creates -- Introduction, M. D. Morris, CEWAU:74:3

20th Century Renaissance, Donald N. Anderson, PP3:July 73:373:9886

Hoisting Machinery

1,250-ton Rotating Derrick, David M. Herring, CE: July 71:53

Hoists

Mechanical Equipment Problems on Old Dams, Fred Engstrom, IMROD:Sept 73:440

Hole Size

Bolted Connections with Varied Hole Diameters, Zaher Shoukry and William Thomas Haisch, ST6: June 70:1105:7349

Grout Hole Orientation-Mathematical Solution, J. S. Singhota, SM4:July 69:995:6660

Holograms

Holographic Method of Wave Spectrum Measurement, Takashi Ichiye and Yasuhiro Sugimori, WAVES:Sept 74:139

Holography

Acoustical Holography as a Tool for Geologic Prediction, Ted O. Price, EFSE:Aug 74:172

Computer Mapped Hologram Images in Stress Analysis, John L. Ford and Arthur P. Boresi, EM2: Apr 74:173:10476

Holographic Method of Wave Spectrum Measurement, Takashi Ichiye and Yasuhiro Sugimori, WAVES:Sept 74:139

Holography—A New Tool for Soil Dynamics, Richard D. Woods, Norman E. Barnett and Rolf Sagesser, GT11:Nov 74:1231:10949

Homogeneity

Homogeneity Analysis and Planning Studies, Robert E. Paaswell, UP2:Dec 71:125:8561

Seepage from Trenches Through Nonhomogeneous Soils, Ahmed El Nimur and Robert L. Street, IR1: Mar 72:13:8777

Honeycomb Cores

Failure Modes of Folded Sandwich Panel Roofs, Paul P. Fazio, ST5:May 72:1085:8913

Horizontal Alinement

Optimum Curvature Principle in Highway Routing, Bernard E. Howard, Z. Bramnick and Jocelyn F.B. Shaw, HW1:June 68:61:5987

Hospitals

Civil Engineering in Health Care Systems, Tung Au, PP1:Oct 71:87:8470

Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134

Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105

Indoor Territoriality: An Anthropological Perspective, Donald A. Kennedy, ABS:71:37

Planning for Memphis Medical Center Traffic and Parking, Wm. H. Claire and Randall A.P. Johnson, TE1:Feb 71:51:7882

Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73: 59:9493

Hot Film Anemometers

Measurement of Velocity-Concentration Covariance, Raul S. McQuivey and Thomas N. Keefer, HY9: Sept 72:1625:9184

Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535

Velocity and Temperature in Buoyant Jet, Richard B. Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975

Wall Shear Stress Measurements with Hot-Film Sensors, Oner Yucel and Walter H. Graf, HYB:Aug 73:55

Hot Wire Anemometers

Measurement of Turbulence in Water, Everett V. Richardson and Raul S. McQuivey, HY2:Mar 68: 411:5855

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Houses

Mobile-Home Parks, David A. Alley, Ivan Orton and John L. Young, CE:Sept 71:88

Opportunity for Civil Engineers, CE:Apr 71:92

Housing

The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66

Contributions of the Federal-Aid Highway Program, Francis C. Turner, CE:June 70:71

Damage Assessment of Household Water Quality, Dennis P. Tihansky, EE4:Aug 74:905:10700

A Draft ASCE Statement on the Role of the Civil Engineer in the Planning and Development of New Communities in the United States Urbanization and Settlement, CE:June 73:62

Economic Analysis of Housing Construction Methods, Shlomo Peer and Abraham Warszawski, CO2:Sept 72:287:9166

Effects of Urbanization on Water Quality, Robert P. Shubinski and Gerald F. Tierney, UT73:May 73: 179

Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042

Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970

Federal Breakthrough Program Spurs Innovation in U.S. Housing Technology, Kneeland A. Godfrey, Jr., CE:Sept 70:73

High-Rise Panel Structures, Matthys P. Levy and Istvan S. Varga, ST5:May 72:975:8894

Low-Cost Housing: Is the Soviet Union's Factory-Made Housing the Answer?, A. Allan Bates, CE: Sept 69:44

Mobile Home Parks and American Municipalities, Stephen Sussna, UP2:Dec 71:139:8562

Mobile Homes and New Communities, Herbert Behrend, UP2:Nov 74:181:10915

Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502

New York State Spurs Housing, Kneeland A. Godfrey, Jr., CE:Nov 71:53

Precast Concrete in Residential Construction, Rexford L. Selbe, UP1:Mar 73:93:9596

A Program For New Towns, Ira J. Bach, UP1:Apr 71:55:8059

Report Relating the Impact of Mobile Homes on Urban Plans and Housing Systems by the Task Committee on Mobile Home Parks of the Urban Planning and Development Division, Charles O. Quade, Chmn., UP1:Mar 74:7:10385

Residential Environment and Adjustment: The Special Case of the Elderly, Kermit K. Schooler, ABS:71:43

Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt, James R. Goodman and Marvin E. Criswell, ST1:Jan 74:11:10274

Surface-Bonded Concrete-Block Panels, Herbert W. Busching, Donald H. Hamilton and James G. Goree, EM2:Apr 74:359:10493

A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, John P. Eberhard, TB:73:Ia-1-133

Treated Wood Foundations for Houses, CE:Oct 73: 41

Urban Renewal in White Plains, N.Y., J. Michael Divney, CE:Sept 69:69

User Oriented Approach to Housing Design for Indians, Richard D. Bauman and Arn Henderson, UP1:Mar 74:29:10384

Watts Revisited: Transportation and Community Values: Century Freeway, Stuart L. Hill, CE:Sept 69:56

What Should Civil Engineering Education Accomplish?, Elmer K. Timby, CEE:Feb 74:1-302

Housings

Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668

236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

Hulls (Structures)

Concrete Hulls for Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, ST4:Apr 71:1283:8078

Human Behavior

Behavioral Aspects of High Rise Buildings, Roy C. Herrenkohl, BP73:Dec 73:442

Construction Productivity and Job Satisfaction, John D. Borcherding and Clarkson H. Oglesby, CO3:Sept 74:413:10826

Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347

Energy Cost and Stair Design: A Preliminary Report, John A. Templer and Paul J. Corcoran, MTI:May 72:67

Human Perception of Transient Vibrations, John F. Wiss and Richard A. Parmelee, ST4:Apr 74:773:10495

Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137

Human Responses to Stairways, Walkways and Ramps: Some Recent Findings, John A. Templer, BP73:Dec 73:137

Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811

Human Response to Tall Building Wind-Induced Motion, State-of-Art Report 6, John W. Reed, Robert J. Hansen and Erik H. Vanmarcke,, TB:73:II-17-687

Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868

Management Defined, Characteristics, and Human Behavior, Leon K. Madsen, EPMT:73:1

People Considerations at Newark Airport, John P. Veerling, MTI:May 72:243

People Handling Systems at Tampa International Airport, Marjorie Brink, MTI:May 72:223

Potential Applications of People Mover Systems, Herbert S. Levinson, MTI:May 72:281

Sizing Pedestrian Queueing Areas, Peter A. Fausch, MTI:May 72:113

Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139

Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639

Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701

Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705

Structural Failures from the Human Side, Raymond C. Reese, STF:73:103

Traffic and Service Characteristics of Pedestrians in Terminals, John J. Fruin, MTI:May 72:91

Human Engineering

Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68

Behavioral Aspects of High Rise Buildings, Roy C. Herrenkohl, BP73:Dec 73:442

The Energy Crisis and the Bicyclist, James L. Konski, BP73:Dec 73:576

Human/Machine Interface in Moving Walk Design, Rick Kuner, MTI:May 72:139

People Considerations at Newark Airport, John P. Veerling, MTI:May 72:243

People Handling Systems at Tampa International Airport, Marjorie Brink, MTI:May 72:223

Potential Applications of People Mover Systems, Herbert S. Levinson, MTI:May 72:281

Team Effort, Robert J. Young, TB:73:C-DM-215

Human Factors Engineering

Behavioral Aspects of High Rise Buildings, Roy C. Herrenkohl, BP73:Dec 73:442

The Driver and the Road, Donald L. Woods, TE4:Nov 71:609:8513

The Elderly Pedestrian: A Special Problem, Susan B. Haberkorn, BP73:Dec 73:414

Four-Day Week and Transportation, Vincent R. Desimone, TE3:Aug 72:705:9116

Human Perception of Transient Vibrations, John F. Wiss and Richard A. Parmelee, ST4:Apr 74:773:10495

Human Perception Thresholds of Horizontal Motion, Peter W. Chen and Leslie E. Robertson, ST8:Aug 72:1681:9142

Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137

Human Responses to Stairways, Walkways and Ramps: Some Recent Findings, John A. Templer, BP73:Dec 73:137

Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811

Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165

Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139

Structural Failures from the Human Side, Raymond C. Reese, STF:73:103

Structural Failures from the Human Side, Raymond C. Reese, CE:Jan 73:81

Structural Systems, Theme Report, Leslie E. Robertson, TB:73:Ia-3-403

Team Effort, Robert J. Young, TB:73:C-DM-215

Welcoming Remarks at Tall Buildings Conference, Albert C. Zettlemoyer, Vice President and Provost, Lehigh University, TB:73:C-25

Humanities

Humanities and Social Sciences in Engineering Education, 1974, Omer Allan Gianniny, Jr., CEE:Feb 74:1-530

Humans

Human Responses to Stairways, Walkways and Ramps: Some Recent Findings, John A. Templer, BP73:Dec 73:137

Prospectives in Bioengineering Research for Civil Engineers, George Bugliarello, PP1:Oct 71:83:8461

Humid Areas

The Economic Evaluation of Irrigation in Humid Areas, Milton L. David and Gary M. Mennem, OIDS:72:443

Humidity

Creep and Shrinkage Law for Concrete at Variable Humidity, Zdenek P. Bazant and Spencer T. Wu, EM6:Dec 74:1183:10995

Hurricanes

Analysis of Hurricane Tides at Padre Island, Texas, Frank D. Masch, Robert J. Brandes, Floyd R. Hill and William A. White, 12CEC:71:2031

Decrease in Maximum Hurricane Winds After Landfall, Joseph L. Goldman and Toshimitsu Ushijima, ST1:Jan 74:129:10295

Height-Period Joint Probabilities in Hurricane Camille, Marshall D. Earle, Curtis C. Ebbesmeyer and Douglas J. Evans, TN: WW3:Aug 74:257:10724

Hurricane Barrier Environmental Planning in Texas, Sidney H. Tanner and Edward J. Pullen, WW4:Nov 73:459:10171

Hurricane Exposes Structural Flaws, Herbert S. Saffir, CE:Feb 71:54

Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12: Dec 73:2345:10230
Probabilities For Highest Wave In Hurricane, Leon Emry Borgman, WW2:May 73:185:9705
Probability Distributions For Hurricane Effects, Larry R. Russell, CEO-II:70:835
Revisions to Hurricane Design Wave Practices, Charles L. Bretschneider, CE13:72:I-167
Statistical Prediction of Hurricane Storm Surge, Cheng Y. Yang, A. M. Parisi and William S. Gaither, 12CEC:71:2011
Turbulence in Hurricane-Generated Coastal Currents, Stephen P. Murray, 12CEC:71:2051
Variation of Mean Winds with Height in Hurricanes, Emil Simiu, TN: EM4:Aug 74:832:10692
Wave Force on a Platform with a Ribbed Bottom, Keith H. Denson and Melville S. Priest, CE13:72: III-1759
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53
Wind and Surge Damage Due to Hurricane Camille, Herbert C. S. Thom and R. D. Marshall, WW2: May 71:355:8144
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91

Hurricane Tracking
Height-Period Joint Probabilities in Hurricane Camille, Marshall D. Earle, Curtis C. Ebbesmeyer and Douglas J. Evans, TN: WW3:Aug 74:257: 10724

Hybrid Beams
Optimum Proportions for I-Shaped Beams, Charles G. Schilling, ST12:Dec 74:2385:11007

Hybrid Computers
Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473

Hydration
Developments in Cement Technology, George Verbeck, ECCD:72:33
Introductory Remarks, Robert E. Philleo, ECCD:72: 31

Hydraulic Conductivity
Height of Sand Dunes in Open Channel Flows, Mohammad Akram Gill, HY12:Dec 71:2067:8612
Planning and Interpreting Soil Permeability Measurements, Herman Bouwer, IR3:Sept 69:391: 6775

Hydraulic Control
Hydraulic Control for Flow Distribution, Kuan M. Yao, SA2:Apr 72:275:8808

Hydraulic Design
Developments in Water System Network Design, V. Raman, SA5:Oct 70:1249:7612
Hydraulic Elements for USBR Standard Horseshoe Tunnel, Walter W. Hu, TN: TE4:Nov 73:973:10117
Towards a Design System for Stratified Flows, Michael B. Abbott and John P. Grubert, ISSF:Aug 72:113

Hydraulic Engineering
Angat Project - The Leak in Tunnel Two, Wallace A. Waldorf, PO4:Dec 71:799:8571
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897

Hydraulic Fill Dams
Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, GT5:May 74:523:10553

Hydraulic Fills
Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939: 10170
Hydraulic Fills to Support Structural Loads, Robert V. Whitman, SM1:Jan 70:23:7009
Hydraulic Fills to Support Structural Loads, Robert V. Whitman, PISST:71:169
Reclaimed Land in Kawasaki City, Japan, T. William Lambe, SM5:Sept 69:1181:6780
Session V: Special Topics (Hydraulic Fills, Performance, Evaluation, etc.), Ronald C. Hirschfeld, PISST:71:165
Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501

Hydraulic Gradient
Mechanical Equipment at Edmonston Pumping Plant, Samuel Fong, CO3:Sept 74:279:10794

Hydraulic Gradients
Behavior Of Porous Bed Near Flow Singularity, C. Samuel Martin, SM2:Feb 71:393:7935

Hydraulic Jets
Crater-sink Sand Transfer System, Douglas L. Inman and Roland W. Harris, 12CEC:71:919
Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555
Hydraulic Jump Assisted by Cross-Jet, Teh-Yuh Kao, HY12:Dec 71:2037:8614
Pressure of Waves Against Vertical Walls, M. E. Plakida, 12CEC:71:1451
Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73: 589
Surface Oscillations in a Water Tank Caused by a Submerged Jet, Juan B. Font, Omar Azpurua and Flora Aranguren, 12CEC:71:2243
Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Hydraulic Jump
Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7: July 72:1127:9007
Bubbly Two-Phase Flow in Hydraulic Jump, Francois J. Resch, Hans J. Leutheusser and Solomon Alemu, HY1:Jan 74:137:10297
Circular Hydraulic Jump, Herman J. Koloseus and Daud Ahmad, HY1:Jan 69:409:6367
Circular Jumps, Subhash C. Mehrotra, HY8:Aug 74: 1133:10758
Computation of Open-Channel Surges and Shocks, George Terzidis and Theodor S. Strelkoff, HY12: Dec 70:2581:7780
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547: 9117
Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71: 2023:8599
Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8: Aug 72:1367:9088
Efficiency of Hydraulic Jump, Satya P. Garg and Hari R. Sharma, HY3:Mar 71:409:7994
Flow Characteristics of Sloping Channel Jumps, Nallamuthu Rajaratnam and Valupadas Mura Hari, HY6:June 74:731:10594
Fluctuating Pressures in Spillway Stilling Basins, C. Edward Bowers and Frank Y. Tsai, HY6:Nov 69: 2071:6915
Formulation of Mathematical Watershed-Flow Model, Cheng-lung Chen and Ven Te Chow, EM3: June 71:809:8199
Graphical Solution to Hydraulic Jump, Roland W. Jeppson, HY1:Jan 70:103:7014
Hydraulic Jump Assisted by Cross-Jet, Teh-Yuh Kao, HY12:Dec 71:2037:8614
Hydraulic Jumps Below Abrupt Symmetrical Expansions, Nallamuthu Rajaratnam and Kanakatti Subramanya, HY2:Mar 68:481:5860
Hydraulic Jump Within Gradually Expanding Channel, Anat Arbhabhirama and Alejandro U. Abella, HY1:Jan 71:31:7831

Internal Hydraulic Jump In Co-Current Stratified Flow, Norio Hayakawa, TN: EM5:Oct 70:797:7573
Modified USBR Impact Basin, Clifford D. Smith and Elias M. Korolischuk, TN: HY1:Jan 73:153:9463
Nondimensional Gradually Varied Flow Profiles, Cheng-lung Chen and Chun-Tsung Wang, HY5: Sept 69:1671:6790
Observations on Hydraulic Jumps at Rounded Step, James J. Sharp, HY6:June 74:787:10592
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603
Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, Teh-Yuh Kao and Daniel L Shoemaker, HYB:Aug 73:349
Plane Jet on Sloping Floors Under Finite Submergence, Valupadas Mura Hari, HY9:Sept 73: 1449:10027
Pressure Fluctuations on Submerged Sluice Gate, Gordon Keir, Tharakkal E. Unny and Harry M. Hill, HY4:Nov 69:1781:6875
Profile of the Hydraulic Jump, Nallamuthu Rajaratnam and Kanakatti Subramanya, HY3:May 68:663:5931
Solution Of Hydraulic Jump In Horizontal Channels By Graphs, Yin Au Yeung, TN: HY8:Aug 72:1465: 9083
Speed of Ships in Restricted Navigation Channels, R. Bryan Schofield, WW2:May 74:133:10539
Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235
Tidal Computations for Rivers, Coastal Areas and Seas, J. J. Dronkers, HY1:Jan 69:29:6341
Towards a Design System for Stratified Flows, Michael B. Abbott and John P. Grubert, ISSF:Aug 72:113
Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468
Water Pollution Control by Hydraulic Aeration, Hans J. Leutheusser and Francois J. Resch, HYB:Aug 73: 315

Hydraulic Laboratories

Hydraulicians are Human Too, Hunter Rouse, HY5: May 72:875:8877
Hydraulicians are Human Too, Hunter Rouse, HY5: May 72:875:8877

Hydraulic Mining

Hydraulic Trenching of Submarine Pipeline, H. Ivan Schwartz, TN: TE4:Nov 71:723:8489

Hydraulic Models

Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
Armor Stability of Overtopped Breakwater, Patrick T. Lording and John R. Scott, WW2:May 71:341: 8138
Artificial Nourishment of Copacabana Beach, Daniel Vera-Cruz, CE13:72:II-1451
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
Backwater Effect of Submerged Sills, Eric J. Schiller, TN: SM11:Nov 72:2059:9311
Bed Topography Effect on Flow in a Meander, Chin-lien Yen, HY1:Jan 70:57:7003
Behavior of Buoyant Jet in Calm Fluid, Habib O. Anwar, HY4:July 69:1289:6688
Brink Depth for Trapezoidal Broad-Crested Weir, Birendra N. Neogy, HY12:Dec 72:2171:9427
Case History of Los Angeles-Long Beach Harbors, Robert W. Whalin, Claude E. Chatham, Donald L. Durham and Ellis B. Pickett, WAVES:Sept 74:466
Change in Quality of Pumped Drainage Effluent, Enos J. Carlson, IR73:Aug 73:195
Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
Characteristics of Waves Broken by a Longshore Bar, E. Clark McNair and Robert M. Sorensen, 12CEC: 71:415
The Cheasapeake Bay Study And Hydraulic Model, John T. Starr, CEO-II:69:349
Chesapeake Bay Model Study for Calvert Cliffs, Lawrence C. Neale, PO4:Dec 71:827:8602
Comparison of Model and Beach Scour Patterns, John B. Herbich, 12CEC:71:1281
Computer Control and Data Acquisition of a Tidal Model, E. R. Funke, CE13:72:III-2387
Computer Determination of Flow Through Bridges, Bill S. Eichert and John Peters, HY7:July 70:1455: 7412
Computer Simulation Of Urban Storm Water Runoff, Carl W. Chen and Robert P. Shubinski, HY2:Feb 71:289:7924
Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024
Consideration on Factors in Breakwater Model Tests, Yvon Ouellet, CE13:72:III-1809
Current Water Systems Automation Research and Development in the Bureau of Reclamation, Charles A. Calhoun, IR73:Aug 73:353
Damage Function of Rubble-Mound Breakwaters, Jacobus van de Kreeke, WW3:Aug 69:345:6743
Decay of Mass Oscillations in Rectangular Basins, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY1: Jan 74:119:10261
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
Design of Mossyrock Arch Dam, Roman P. Wengler and William Y. J. Shieh, PO1:Jan 71:25:7805
Development of Large Scale Drip Irrigation Systems, Benjamin R. Olson, Jr., IR73:Aug 73:311
Dispersion in Homogeneous Estuary Flow, Edward R. Holley, Donald R.F. Harleman and Hugo B. Fischer, HY8:Aug 70:1691:7488
Dissipation of Wave Energy due to Opposing Current, Toshio Iwasaki and Michio Sato, CE13:72: I-605
Distorted Modeling of Density Currents, James J. Sharp, CE13:72:III-2329
Diversion of Wastewater from Madison Lakes, William C. Sonzogni and G. Fred Lee, EE1:Feb 74: 153:10318
Dworshak Dam Spillway and Outlets Hydraulics Design, Albert L. McCormmach, HY4:July 68: 1051:6045
A Dynamic Structure-Soil-Wave Model For Deep Water, Billy L. Edge and Paul G. Mayer, CEO-II: 70:13
Eddy Formation Behind Circular Cylinders, Alan D. K. Laird, HY6:June 71:763:8170
Elbe Tidal Model with Movable Bed, Hans Vollmers and Egon Giese, CE13:72:III-2447
Energy Transfer Mechanism for Finite Amplitude Waves, Konstantin Zagustin, CE13:72:I-523
Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
Equilibrium Profiles of Model Beaches, Irvathur Vasudeva Nayak, 12CEC:71:1321
Estuary Inlet Channel Stabilization Study Using A Hydraulic Model, Theodore T. Lee, 12CEC:71: 1117
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
Experiences with Tidal Salinity Model Europoort, A. J. van Rees, P. van der Kuur and H. J. Stroband, CE13:72:III-2345
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF: Aug 72:527
Failure of Submarine Slopes Under Wave Action, R. J. Mitchell, K. K. Tsui and Dwight A. Sangrey, CE13:72:II-1515
Field and Laboratory Studies: Navigation Channels of the Columbia River Estuary, Morrough P. O'Brien, CE13:72:III-2465

Filling System For Lower Granite Lock, George C. Richardson, WW3:Aug 69:275:6718
Flow-Induced Vibration of Vertical-Lift Gate, J. David Hardwick, HY5:May 74:631:10546
Flow Over Triangular Elements Simulating Dunes, Mahmoud Faisal Rifai and Kenneth V.H. Smith, HY7:July 71:963:8246
Flushing Characteristics of Small-Boat Marinas, Ronald E. Nece and Eugene P. Richey, CE13:72: III-2489
Graph-Theoretic Models for Pipe Network Analysis, H. K. Kesavan and M. Chandrashekar, HY2:Feb 72:345:8709
Guidelines for Selecting a Programmable Calculator, Eugene E. Dallaire, CE:Mar 72:46
Harbor Study for San Nicholas Bay, Peru, James M. Murphy and Emmett J. Murphy, WW2:May 70: 251:7271
Honolulu Reef Runway Dike, Robert Q. Palmer and James R. Walker, 12CEC:71:1629
Horizontal and Vertical Water Particle Velocities Induced by Waves, Yoshito Tsuchiya and Masataka Yamaguchi, CE13:72:I-555
Hydraulic Model Experiment On Waste Diffusion In Tokyo Bay, Tonia Eemura, Masamitsu Onitsuka, Hiroshi Fukao and Fumio Yamaguchi, CEO-II:70: 247
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Hydrodynamic Effects of Seepage on Bed Particles, Gary Z. Watters and Manam V.P. Rao, HY3:Mar 71:421:7973
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Independent Comparison of Three Urban Runoff Models, David P. Heeps and Russell G. Mein, HY7:July 74:995:10685
Interaction Of A River With The Coast: Laboratory Simulation, Omar H. Shemdin, CEO-II:70:763
Jamaica Bay Hurricane Barrier, Frank L. Panuzio, 12CEC:71:2069
Link Between Stochastic and Parametric Hydrology, Rafael G. Quimpo, HY3:Mar 73:461:9602
Loadings on Large Piers in Waves and Currents, Hsiang Wang, 12CEC:71:1491
Mass Transfer Limitations in Substrate Removal, C. Robert Baillod and William C. Boyle, SA2:Apr 70: 525:7239
Mathematical and Hydraulic Models of Tidal Waves, Jurgen Sundermann and Hans Vollmers, CE13:72: III-2413
Measurements of Turbulence in Water at High Velocity, Stephen C. Ko, TN: HY12:Dec 72:2253: 9397
A Model for Computation of Stratified Turbulent Flow, J. L. Lumley, ISSF:Aug 72:335
Model for Sediment Transport through an Estuary Cross Section, Herbert H. Stevens, Jr., David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279
Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385
Modeling of Structures Subjected to Wind Waves, Erich J. Plate and John H. Nath, WW4:Nov 69: 491:6904
Modeling Sedimentation at Inlet and Coastal Region, Pang-Mou Lin, CE13:72:II-883
Modeling Spread of Heated Water over Lake, Heinz Stefan, PO3:June 70:469:7375
Modelling Tidal Flow From Harbors, Frederick E. Camfield, TN: WW4:Nov 70:879:7647
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Model Study of Power Intake Gate Of Mossyrock Dam, Robert A. Robertson and James W. Ball, HY7:July 71:889:8229
Model Study of Transformation of Tsunamis in Urado Bay, Shigehisa Nakamura, Yuichi Iwagaki and Yoshito Tsuchiya, 12CEC:71:2089
Model Tests and Studies For Port Rashid, Dubai, Eric Loewy, 12CEC:71:1137
Model Versus Field Data on Thermal Plumes from Power Stations, Lawrence C. Neale and George E. Hecker, ISSF:Aug 72:399
Modified USBR Impact Basin, Clifford D. Smith and Elias M. Korolischuk, TN: HY1:Jan 73:153:9463
Movable-Bed Model Studies of Perched Beach Concept, C. E. Chatham, Jr., CE13:72:II-1197
Navigation Model Tests for Straight Reach of Missouri River, Duane J. Sveum and Warren J. Mellema, WW2:May 72:191:8867
Northfield Mountain Pumped Storage Project, Ralph W. Gunwaldsen and Antonio Ferreira, CE:May 71: 53
Offshore Mooring Systems, Robert C. H. Russell, BMS:71:254
On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335
On the Geometrically Similar Reproduction of Dunes in a Tidal Model with Movable Bed, Mehmet Selim Yalin, CE13:72:II-1143
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
Physical Model of the Moored Ship as an Oscillating System, Fernando Vasco Costa, BMS:71:53
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195
Power Losses and Flow Topologies in Manifold, Jaime Amorocho and Johannes J. DeVries, HY1: Jan 71:81:7791
Priority Problems for Modifying Cumulus Precipitation, Lewis O. Grant, IR73:Aug 73:131
Protection of Offshore Structures Against Underscour, Chesley J. Posey, HY7:July 71:1011: 8230
Recreational Surfing on Hawaiian Reefs, James R. Walker, Robert Q. Palmer and Joseph K. Kukea, CE13:72:III-2597
Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
Resistance to Reversing Flows over Movable Beds, Mehmetcik Bayazit, HY4:July 69:1109:6649
River-Coast Interaction: Laboratory Simulation, Omar H. Shemdin, WW4:Nov 70:755:7658
River Diversion for Boundary Dam, Adolf A. Schilling, PO3:June 70:319:7339
The Role of Surface Tension in Breaking Waves, Robert L. Miller, CE13:72:I-433
Scale Selection for Mobile Bed Wave Models, J. William Kamphuis, CE13:72:II-1173
Scour Around a Circular Cylinder due to Wave Motion, Donald R. Wells and Robert M. Sorensen, 12CEC:71:1263
Sediment Transport in Tidal River, Amarendra N. Biswas and Arun K. Chakrabarti, HY11:Nov 74: 1677:10964
Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
Select Reservoir Withdrawal by Multilevel Intakes, Walter B. Benton, William J. Wall and Shelton R. McKeever, PO1:Jan 70:109:7029
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122
Similarity of Equilibrium Beach Profiles, M. J. Paul, J. William Kamphuis and A. Brebner, CE13:72:II-1217
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
Simulation of Piers in Hydraulic Models, David J. Ball, WW1:Feb 74:23:10313
Simulation of Waves by an Underwater Explosion, Jan Malan Jordaan, Jr., WW3:Aug 69:355:6745
Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
The Spiral Wavemaker for Littoral Drift Studies, Robert A. Dalrymple and Robert G. Dean, CE13: 72:I-689
Spread of Buoyant Jets at the Free Surface, James J. Sharp, HY3:May 69:811:6538

Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562
Study of Durban Harbor Silting and Beach Erosion, Jan Malan Jordaan, Jr., 12CEC:71:1097
Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691:9216
Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
Surface Tension in Froude Models, W. Hall C. Maxwell and J. Richard Weggel, HY2:Mar 69:677:6482
Survey of Programs for Water-Surface Profiles, Bill S. Eichert, HY2:Feb 70:547:7098
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145
Tidal Inlet Current -- Ocean Wave Interaction, Lyndell Z. Hales and John B. Herbich, CE13:72:I-669
Tidal Waves in Schematic Estuaries, Hans Vollmers and Jurgen Sundermann, 12CEC:71:2133
Turbulent Flow Over Moving Boundary, Konstantin Zagustin, En Yun Hsu and Robert L. Street, WW4:Nov 68:397:6210
Underwater Mound for the Protection of Durban's Beaches, Johan A. Zwamborn, G. A. W. Fromme and J. B. FitzPatrick, 12CEC:71:975
Unsteady Spread of Buoyant Surface Discharge, James J. Sharp, HY9:Sept 71:1471:8396
Uses of Models in Resolving Tidal Problems, Henry B. Simmons, HY1:Jan 69:125:6345
Watershed as Semiinfinite Storage Reservoir, Vit Klemes, IR4:Dec 73:477:10213
Waves Generated by Horizontal Motion of a Wall, Madan M. Das and Robert L. Wiegel, WW1:Feb 72:49:8707
Waves Generated By Model Ship Hull, Robert M. Sorensen, WW4:Nov 69:513:6910
Waves Induced by Non-Permanent Paddle Movements, Carlos de Campos Moraes, Fernando Silveira Ramos and Manuel Mendes de Carvalho, CE13:72:I-707
Wave Transmission by Overtopping, Ralph H. Cross, III and Charles K. Sollitt, WW3:Aug 72:295:9137
Wind-Induced Circulation in Shallow Water, Henry Liu and Himerio J. Perez, HY7:July 71:923:8235

Hydraulic Pressure

Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51

Hydraulic Properties

Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and Tor L. Brekke, RM14:73:481

Hydraulic Radius

Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
Hydraulic Resistance of Artificial Concrete Blocks, Nobuo Shuto and Hiroshi Hashimoto, 12CEC:71:1587
On the Concept of Mean Hydraulic Radius, Desmond F. Moore, HY4:July 69:1305:6691
Resistance Studies on Smooth Open Channels, V. V. Jayaraman, HY5:May 70:1129:7266

Hydraulics

Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809
Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387:9128
Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074
Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859
Alluvial Channel Resistance to Bed Form, Kenneth V.H. Smith, HY1:Jan 68:59:5720
Analysis of Flow in Channels with Gravel Beds, John A. Roberson and Steven J. Wright, HYB:Aug 73:63
Analysis of Integrating-Float Flow Measurement, Henry Liu and Larry D. Martin, HY5:Sept 68:1245:6116
Analysis of Natural Roughness Profiles, Chesley J. Posey, TN: SM11:Nov 72:2065:9311
Analysis Of Probability And Risk Equations, Mohammad Akram Gill, TN: HY5:May 72:969:8864
Analysis of Resistance Over Staggered Roughness, Hsieh W. Shen and Ruh-Ming Li, TN: HY11:Nov 73:2169:10/47
Analysis of Sedimentation Data, Udayagiri Mohan Rao, TN: HY4:Apr 71:647:8018
Analysis of Sediment Sorting in Alluvial Channels, Saeed A. Rana, Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168
Analysis of Seepage into Ground-Water System, Adigun Ade Abiodun, TN: HY7:July 73:1203:9827
Analytical Treatment of Two-Phase Infiltration, Richard L. Brustkern and Hubert J. Morel-Seytoux, HY12:Dec 70:2535:7743
Appearance of Unstable Buoyant Jet, Habib O. Anwar, HY7:July 72:1143:9012
Approximate Solution to Flow Problems Under Dams, Demetrious G. Christoulas, SM11:Nov 71:1573:8528
Aqueduct Route Optimization by Dynamic Programming, Nathan Buras and Ze'ev Schweig, HY5:Sept 69:1615:6779
Are Individual Current-Meter Ratings Necessary, George F. Smoot and Rolland W. Carter, HY2:Mar 68:391:5848
Arrested Wedge in Circular Tube, James J. Sharp and Chung-su Wang, TN: HY7:July 74:1085:10640
Artificial Ground-Water Recharge by Means of Wells in Israel, Yoav Harpaz, HY12:Dec 71:1947:8579
Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409
At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
Autocorrelation and Spectral Analysis in Hydrology, George Quimpo, HY2:Mar 68:363:5837
Automation in California's State Water Project, Robin R. Reynolds and Welby R. Madsen, PL3:Nov 67:15:5574
Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675
Backwater Effect of Submerged Sills, Eric J. Schiller, TN: SM11:Nov 72:2059:9311
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469
Bed Load Transportation in Alluvial Channels, Satya P. Garg, Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091
Bed Scour at End-Dump Channel Constrictions, Bishnu Prasad Das, HY12:Dec 73:2273:10228
Bed Topography Effect on Flow in a Meander, Chin-lien Yen, HY1:Jan 70:57:7003
Behavior of a Slender Body in Shallow-water Waves, Hsiang Wang and Li-San Hwang, CEC:71:1723
Behavior of Buoyant Jet in Calm Fluid, Habib O. Anwar, HY4:July 69:1289:6688
Behavior of Small Gas Bubbles in Accelerated Liquid, Subba Rao Gutti, HY4:Aug 68:1073:6047
Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73:1401:10018
Boundary Contractions as Controls in Two-Layer Flows, Subhash C. Mehrotra, HY11:Nov 73:2003:10160

Boundary Effects on Stability of Structures, Amrik S. Chawla, HY9:Sept 72:1557:9199

Boundary-Layer Development at Curved Conduit Entrances, Palepu V. Rao, HY1:Jan 68:195:5756

Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7: July 72:1127:9007

Boundary Shear Distribution in Open Channel Flow, S. N. Ghosh and N. Roy, HY4:Apr 70:967:7241

Bridge Backwater in Wide Valleys, Emmett M. Laursen, HY4:Apr 70:1019:7246

Bridge Piers-Hydrodynamic Force Coefficients, Colin J. Apelt and Lewis T. Isaacs, HY1:Jan 68:17:5707

Brink Depth for Trapezoidal Broad-Crested Weir, Birendra N. Neogy, HY12:Dec 72:2171:9427

Bubbly Two-Phase Flow in Hydraulic Jump, Francois J. Resch, Hans J. Leutheusser and Solomon Alemu, HY1:Jan 74:137:10297

Buoyant Forced-Plumes in Cross Flow, Vincent H. Chu and Michael B. Goldberg, HY9:Sept 74:1203: 10805

Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378

Calibration of Walnut Gulch Supercritical Flumes, Wendell R. Gwinn, HY8:Aug 70:1681:7479

Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie Ling Chiang, HYB:Aug 73:371

Capital Cost Minimization of Hydraulic Network, Ralf G. Cembrowicz and Joseph J. Harrington, HY3:Mar 73:431:9606

Carbon-14 Ages Related to Occurrence of Salt Water, William Back, Bruce B. Hanshaw and Meyer Rubin, HY11:Nov 70:2325:7702

Cavitation and Size Scale Effects for Orifices, J. Paul Tullis and Rangachari Govindarajan, HY3:Mar 73: 417:9605

Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB: Aug 73:141

Cavitation in Butterfly Valves, James W. Ball and J. Paul Tullis, HY9:Sept 73:1303:9993

Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678

Cavitation in Horizontal Pipelines Due to Water Hammer, J. P. Th. Kalkwijk and C. Kranenburg, HY10:Oct 71:1585:8440

Cavitation Parameters for Outlet Valves, W. Paul Winn and David E. Johnson, HY12:Dec 70:2519: 7771

Cavitation Scale Effects for Valves, J. Paul Tullis, HY7:July 73:1109:9874

Cell Method for Computing Lake Circulation, James A. Liggett, HY3:Mar 70:725:7152

Chance-Constrained Model of System of Reservoirs, Guy L. Curry, James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246

Channel Slope Effect on Peak Discharge of Natural Streams, Charles L. Armentrout and Robert B. Bissell, HY2:Feb 70:307:7052

Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Vito A. Vanoni, Chmn., HY12: Dec 70:2417:7781

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177

Characteristics of an Air-Water Mixture in a Vertical Shaft, C. Samuel Martin, HYB:Aug 73:323

Characteristics of Flow Weirs of Finite Crest Width, Singamsetti Surya Rao and Manoj Kumar Shukla, HY11:Nov 71:1807:8515

Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2: Feb 73:259:9542

Characteristics of Self-Aerated Flows, Nagar S. Lakshmana Rao, Kyatsandra Seetharamiah and Thimmaiah Gangadharaiah, HY2:Feb 70:331:7055

Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678

Chesapeake Bay Model Study for Calvert Cliffs, Lawrence C. Neale, PO4:Dec 71:827:8602

Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72: 287:8819

Choking and Supercavitating Valves, J. Paul Tullis, HY12:Dec 71:1931:8593

Circular Jumps, Subhash C. Mehrotra, HY8:Aug 74: 1133:10758

Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305

Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HY6:June 74:719:10584

Clogging of Porous Column of Spheres by Sediment, Ramaswamy Sakthivadivel and Hans Albert Einstein, HY2:Feb 70:461:7075

Closed Conduit to Open Channel Stilling Basin, Gordon H. Flammer, Gaylord V. Skogerboe and Chi-Yuan Wei, IR1:Mar 70:1:7124

Colorado Pilot Project: Design Hydrometeorology, Patrick A. Hurley, HY5:May 72:811:8901

Colorado River-Flow Management, Robert E. Glover, Chester A. Nelson and John I. Sanders, HY11:Nov 74:1519:10934

Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215

Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799

Comparison of Four Numerical Methods for Flood Routing, Roland K. Price, HY7:July 74:879:10659

Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025

Computational Procedures For Flow Resistance Laws, Alan A. Smith, HY3:Mar 70:665:7142

Computation for Circulation in Stratified Lakes, Kwang K. Lee and James A. Liggett, HY10:Oct 70: 2089:7634

Computer Analysis of Flow toward Artesian Wells, Yang H. Huang, TN: HY9:Sept 71:1579:8349

Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729

Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, Chan F. Lam and M. L. Wolla, HY3:Mar 72:447:8782

Computer Controls for Aqueduct Operation, Alfred R. Golze, PL1:Oct 68:19:6145

Computer Determination of Flow Through Bridges, Bill S. Eichert and John Peters, HY7:July 70:1455: 7412

Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., George Bugliarello, Chmn., HY7:July 72:1243:9072

Computer Model of Vortex Shedding From a Cylinder, John R. Chaplin, HY1:Jan 73:155:9491

Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626

Computer Simulation of Unsteady Flows in Waterways, Robert A. Baltzer and Chintu Lai, HY4:July 68:1083:6048

Computer Simulation Of Urban Storm Water Runoff, Carl W. Chen and Robert P. Shubinski, HY2:Feb 71:289:7924

Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104

Computers in Flood Control Planning, L. Douglas James, HY6:Nov 69:1859:6886

Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841

Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483

Conception Investigation and Design of Arrow Dam, Keith A. Henry and Nigel P. Grant, PO1:May 68: 41:5940

Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024

Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958

Control of Transient Free-Surface Flow, E. Benjamin Wylie, HY1:Jan 69:347:6360
Cooling Water Density Wedges in Streams, Edward M. Polk, Jr., Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
Coordination of Mobile-Bed Hydraulics, Thomas Bunch, HY6:Nov 69:1871:6884
Crest Losses for Two-Way Drop Inlet, George G. Hebaus, HY3:May 69:919:6570
Critical Depth In Trapezoidal Channels, Kuan M. Yao, TN: HY12:Dec 70:2681:7716
Critical Review of Sediment Transport Experiments, Richard H. Cooper, Allan W. Peterson and Thomas Blench, HY5:May 72:827:8873
Cross-Velocity Behavior in Parallel Channel Flow, James F. Wilson, EM4:Aug 69:921:6736
Cubic Interpolation For Numerical Flood Routing, Paul E. Barker and Thomas P. Propson, TN: HY1: Jan 72:309:8617
Daily Streamflow Simulation, Kip Payne, W. R. Neuman and Kenneth D. Kerri, HY4:July 69:1163: 6665
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73: 2195:10233
Dam Collapse Wave in a River, Armando Balloffet, Eric Cole and Armando F. Balloffet, HY5:May 74: 645:10523
Data Error Effects in Unit Hydrograph Derivation, Eric M. Laurenson and Terence O'Donnell, HY6: Nov 69:1899:6887
Decision Criteria for Using Stochastic Hydrology, George K. Young, Jr., Gerald T. Orlob and Larry A. Roesner, HY4:Apr 70:911:7209
Decrease in Scour Rate of Fresh Deposited Muds, Iaakov Karcz and Gonapathy Shanmugam, TN: HY11:Nov 74:1735:10923
Definitive Computations of Sand Discharge in Rivers, Fred B. Toffaleti, HY1:Jan 69:225:6350
Density Induced Return-Currents in Outlet Channels, Ben P. Rigter, HY2:Feb 70:529:7086
Deposition of Sediment in Transient Flow, Fred F. M. Chang and Dennis L. Richards, HY6:June 71: 837:8191
Deposition of Suspended Particles in a Gravel Bed, Hans Albert Einstein, HY5:Sept 68:1197:6102
Depth-Integrating and Dip Samplers, Walter G. Knisel and Ralph W. Baird, HY2:Feb 70:497:7084
De Saint-Venant Equations Experimentally Verified, Willem F. Brutsaert, HY9:Sept 71:1387:8378
Design Conduit System by Dynamic Programming, Tung Liang, HY3:Mar 71:7988
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10: Oct 73:1659:10070
Design Flood Frequency Curves, Stanley S. Butler, TN: HY3:Mar 71:479:7945
Design Hydrographs for Pennsylvania Watersheds, John E. McSparran, HY4:July 68:937:6036
Designing Spillway Crests for High-Head Operation, John J. Cassidy, HY3:Mar 70:745:7153
Design of Carters Pumped Storage Project, Walter W. Burdin, PO3:June 70:383:7353
Design of Combined Service and Auxiliary Spillway at Auld Valley Reservoir, George F. Horowitz and Daumantas Namikas, HY10:Oct 70:1965:7615
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177
Design of Optimal Hydraulic Networks, Shmuel L.S. Jacoby, HY3:May 68:641:5930
Design of Stable Channels in Alluvial Materials, R. M. Haynie and Daryl B. Simons, HY2:Nov 68: 1399:6217
Desktop Computer Flow Routing, Thomas N. Keefer, HY7:July 74:1047:10669
Detection of Upward Percolation of Saline Lake Water, C. J. Braudo, F. Mero and A. Mercado, HY9:Sept 70:1795:7519
Determination of Efficient Open Channel Sections, Mohammad Ali Mahdaviani, HY6:Nov 67:103: 5567
Determination of Kennedy's Parameter j for Dunes, Mehmet Selim Yalin, TN: HY8:Aug 73:1287:9910
Developing Region in Self-Aerated Flows, Robert J. Keller, K. K. Lai and Ian R. Wood, HY4:Apr 74: 553:10501
Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269
Development of Roll-Wave Trains in Open Channels, Richard R. Brock, HY4:July 69:1401:6704
Difference Method for Higher-Order Equations of Flow, G. S. Rodenhuis, HY3:Mar 73:471:9628
Diffusion and Dispersion in Open Channel Flow, Arthur C. Miller and Everett V. Richardson, HY1: Jan 74:159:10298
Diffusion of Sediment in Developing Flow, Robert P. Apmann and Ralph R. Rumer, Jr., HY1:Jan 70:109: 7018
Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11: Nov 72:1969:9330
Digital Model of Alluvial Aquifer, Peter C. Trescott, George F. Pinder and John F. Jones, WW3:May 70:1115:7264
Digital Program for Water Network Analysis, Roger P. Donachie, HY3:Mar 74:393:10424
Dilution of Buoyant Two-Dimensional Surface Discharges, Heinz Stefan, HY1:Jan 72:71:8653
Direct Measurement of Shear Stress in a Flume, Sylvester Petryk and Hsieh W. Shen, TN: HY6: June 71:883:8161
Discharge, Slope, Bed Element Relations in Streams, J. K. Virmani, Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73
Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553
Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138
Dispersion of Floating Particles in Uniform Channel Flow, Frank Engelund, HY4:July 69:1149:6659
Dispersion of Silt Particles in Open Channel Flow, William W. Sayre, HY3:May 69:1009:6579
Dispersion Prediction from Current Meters, Mervin D. Palmer and J. Bryan Izatt, HY8:Aug 70:1667: 7464
Dispersivity Tensor for Uniform Channel Flow, Gedeon Dagan, HY5:Sept 69:1699:6794
Distribution Channels with Multiple Outlets, William E. Hart and John Borrelli, IR2:June 72:267:8976
Distribution of Energy Losses at Conduit Trifurcations, Bezzam C. Syamala Rao, HY6:Nov 68:1363:6207
Distribution of Tractive Force in Open Channels, Viswanathan C. Kartha and Hans J. Leutheusser, HY7:July 70:1469:7415
Diversion by Lake Piercing Snettisham Project, Thomas E. Munsey, CE:Oct 69:48
Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73: 747:9729
Double-Mass Analysis on the Computer, Rameshwar Singh, HY1:Jan 68:139:5729
Drag Coefficient of Cylinders in Turbulent Flow, Stephen C. Ko and Walter H. Graf, HY5:May 72: 897:8920
Drag Coefficients in Nonsteady Turbulent Flow, Alex J. Sutherland and David J. Painter, HY7:July 71: 1031:8233
Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71: 2023:8599
Drag Reduction in Hydraulic Transport of Solid, Michael Poreh, Jacques L. Zakin, Aviel Brosh and Moshe Warshavsky, HY4:Apr 70:903:7208
Drainage Density in Drift-Covered Basins, John F. Orsborn, HY1:Jan 70:183:7033

Drawdown in Compressible Unconfined Aquifer, Tatiana D. Streltsova, HY11:Nov 74:1601:10950
Dredging Fundamentals, John Huston, WW3:Aug 67:45:5390
Dynamic Equations for Steady Spatially Varied Flow, Ben Chie Yen and Harry G. Wenzel, Jr., HY3:Mar 70:801:7179
Dynamic Programming for Conjunction Water Use, Gert Aron and Verne H. Scott, HY5:May 71:705:8145
Effect Of Axial Flow On Preforated Pipe Outflow, Fred J. Molz and Reed A. Edwards, TN: HY4:Apr 72:747:8803
Effect of Channel Shape on Varied Flow Profiles, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY1:Jan 71:55:7796
Effect of Flume Width on Bed-Form Characteristics, Maurice J. Crickmore, HY2:Feb 70:473:7077
Effect of Period of Record on Flood Prediction, Peter Victorov, HY11:Nov 71:1853:8525
Effect Of Side Walls On Flow Past Bluff Bodies, Thomas L. Shaw, HY1:Jan 71:65:7788
Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189
Effect of Stream Turbulence on Heated Water Plumes, James Weil and Hugo B. Fischer, HY7:July 74:951:10674
Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73:793:9748
Effect of Transportation Planning on Flood Plain Management, Thomas M. Lee, HY3:Mar 72:475:8761
Effect of Urban Development on Flood Discharges, Harman F. Smith, HY1:Jan 69:287:6355
Effects of Density Ratio on Sedimentary Similitude, Walter G. Field, HY3:May 68:705:5948
Effects of Helix Angle on Flow in Corrugated Pipes, Edward Silberman, HY11:Nov 70:2253:7685
Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8:Aug 72:1367:9088
Effects of Mechanical Cleaning Operations on Flow In Large Conduits, George F. Horowitz and Nelson N. Lee, HY5:May 71:677:8110
Efficiency of Hydraulic Jump, Satya P. Garg and Hari R. Sharma, HY3:Mar 71:409:7994
Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336
Efficient Code for Steady-State Flows in Networks, Robert Epp and Alvin G. Fowler, HY1:Jan 70:43:7002
Elevation Dependent Model for Estimating Annual Runoff, Verne E. Smith, Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
Energy Dissipators for Large Culverts, Thomas C. MacDonald, HY6:Nov 69:1941:6893
Energy Loss Analysis for Open Channel Expansions, Gaylord V. Skogerboe, HY10:Oct 71:1719:8464
Energy Loss at Pipe Junctions, Fred W. Blaisdell and Philip W. Manson, IR3:Sept 67:59:5411
Energy Losses at 90° Pipe Junctions, H. Ito and K. Imai, HY9:Sept 73:1353:10022
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
Enhanced Dispersion in Drag Reducing Open Channel Flow, Jerald P. Peterson, Walter E. Castro, Paul B. Zielinski and William F. Beckwith, HY6:June 74:773:10622
Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852
Environmental Aspects of River Basin Planning, Maynard M. Hufschmidt, HY6:Nov 67:323:5605
Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Equivalent Roughness for Shallow Channels, Muthusamy Krishnamurthy and Bent A. Christensen, TN: HY12:Dec 72:2257:9397
Erodibility of Channels With Cohesive Boundary, Emmanuel Partheniades and Robert E. Paaswell, HY3:Mar 70:755:7156
Erosion of Cohesive Sediments, Task Commitee on Erosion of Cohesive MaterialH, Frank D. Masch, HY4:July 68:1017:6044
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
Established Surge on an Impervious Vegetated Bed, W. P.J. Wessels, IR1:Mar 68:1:5832
Estimating Discharge From Superelevation in Bends, Robert P. Apmann, HY1:Jan 73:65:9482
Estimating Dispersion Coefficents In Estuaries, David A. Bella and William J. Grenney, TN: HY3:Mar 72:585:8754
Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395
Estimation of Washload Produced on Certain Small Watersheds, Oswald Rendon-Herrero, HY7:July 74:835:10638
Estimation Theory Applications to Design of Water Quality Monitoring Systems, Stephen F. Moore, HY5:May 73:815:9755
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
Exact Flow Rates from Dupuit's Approximation, Bruce W. Hunt, HY3:Mar 70:633:7140
Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467
Experiences with Bed Sills in Stream Stabilization, Robert P. Apmann and Paul H. Blinco, WW3:Aug 69:319:6724
Experimental Examination of the Rational Method, John C. Schaake, Jr., John C. Geyer and John W. Knapp, HY6:Nov 67:353:5607
Experimental Investigation of Form of Bed-Roughness, Sat Dev Khanna, HY10:Oct 70:2029:7623
Experimental Study of the Hydraulic Behaviour of Inclined Groyne Systems, Julio Patriarca Barcelo, 12CEC:71:1021
Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71:1269:8367
Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948
Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177:9794
Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831
Factors Determining Bed Forms of Alluvial Streams, Vito A. Vanoni, HY3:Mar 74:363:10396
Fall Velocity of Irregular Shaped Particles, George R. Alger and Daryl B. Simons, HY3:May 68:721:5949
Field Test of an X-ray Sediment-Construction Gage, Carl E. Murphree, Gerald Bolton and J. Roger McHenry, HY2:Mar 68:515:5868
Field Tests of Ice Jam Prevention Techniques, Julius H. Moor and Carl H. Watson, HY6:June 71:777:8179
Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313:10241
Filling System For Lower Granite Lock, George C. Richardson, WW3:Aug 69:275:6718
Finite-Difference Simulation of Bore Propagation, C. Samuel Martin and Jerome J. Zovne, HY7:July 71:993:8234
Finite Element Analysis of Flow Toward Artesian Well, Yang H. Huang, TN: HY11:Nov 72:2055:9311
Finite Element Shallow Lake Circulation Analysis, Richard H. Gallagher, James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855
Finite Element Solution for Flow in Noncircular Conduits, Robert Gerard, HY3:Mar 74:425:10425
Finite Element Solution for General Fluid Motion, Gary L. Guymon, HY6:June 73:913:9789
First Long-Distance Iron Slurry Pipeline, E. H. Griesshaber, CE:Jan 69:66

Fitting Methods for Conceptual Catchment Models, Richard P. Ibbitt and Terence O'Donnell, HY9:Sept 71:1331:8370

Flexible Roughness in Open Channels, Nicholas Kouwen and Tharakkal E. Unny, HY5:May 73:713:9723

Flood Control Release Optimization Using Methods from Calculus, William C. Hughes, HY5:May 71:691:8117

Flood Flow Downstream from Slide, Harold P. Guy, TN: HY4:Apr 71:643:8018

Flood Frequency Estimating Techniques for Small Watersheds, George Fleming and Delbert D. Franz, HY9:Sept 71:1441:8383

Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105

Flood Peaks from Small Southwest Range Watershed, Kenneth G. Renard, John C. Drissel and Herbert B. Osborn, HY3:Mar 70:773:7161

Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85

Flood Regulation by Columbia Treaty Projects, Mark L. Nelson and David M. Rockwood, HY1:Jan 71:143:7798

Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72:1773:9294

Flow Analysis of Large Triangular Weit, Donn G. DeCoursey and Bruce J. Blanchard, HY7:July 70:1435:7405

Flow and Bed Topography in Channel Bends, Frank Engelund, HY11:Nov 74:1631:10963

Flow Around Inclined Sheet Pile, Annapareddy Siva Reddy, Govinda Chandra Mishra and Kyatsandra Seetharamiah, HY7:July 71:1101:8248

Flow Characteristics of Butterfly and Spherical Valves, Vsevolod G. Guins, HY3:May 68:675:5933

Flow Characteristics of Sloping Channel Jumps, Nallamuthu Rajaratnam and Valupadas Mura Hari, HY6:June 74:731:10594

Flow Field Surrounding a Suction Pipe Inlet, David R. Basco and William J. Apgar, HYB:Aug 73:121

Flowgraph Analysis of Pipeline Networks, Thorleif Enger and Chuan C. Feng, HY10:Oct 71:1607:8404

Flow in Conduits with Low Roughness Concentration, John A. Roberson and C. K. Chen, HY4:Apr 70:941:7224

Flow-Induced Forces on Protruding Walls, Eduard Naudascher and Frederick A. Locher, HY2:Feb 74:295:10347

Flow-Induced Vibration of Vertical-Lift Gate, J. David Hardwick, HY5:May 74:631:10546

Flow in Open Channels with Smooth Curved Boundaries, Mohammad S. Moayeri, HY12:Dec 73:2217:10194

Flow of Layered Fluid Over Broad Crested Weir, Ian R. Wood and K. K. Lai, HY1:Jan 72:87:8649

Flow of Sand and Water in Pipes, Frederic T. Mavis, TN: HY3:Mar 71:483:7945

Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704

Flow Over Triangular Elements Simulating Dunes, Mahmoud Faisal Rifai and Kenneth V.H. Smith, HY7:July 71:963:8246

Flow Processes in Open Channel Bends, Robert P. Apmann, HY5:May 72:795:8886

Flow Profile Computation by Direct Integration, Kanakatti Subramanya and Amruthur S. Ramamurthy, TN: HY9:Sept 74:1307:10776

Flow Rates in Two-Dimensional, Unsteady, Confined Groundwater Flow, Bruce W. Hunt, HY2:Mar 69:603:6451

Flow Simulation System, Richard F. Lanyon and James Jackson, HY8:Aug 74:1089:10743

Flow Through Annulus with Large Radial Clearance, M. H. Abdul Khader and H. Suresh Rao, HY1:Jan 74:25:10265

Flow Through Spillway Flip Bucket, Charles W. Lenau and John J. Cassidy, HY2:Mar 69:633:6478

Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227

Fluctuating Pressures in Spillway Stilling Basins, C. Edward Bowers and Frank Y. Tsai, HY6:Nov 69:2071:6915

Fluid-Dynamic Consideration of Bottom Materials, Hormoz Pazwash and James M. Robertson, HY9:Sept 71:1317:8374

Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465

Fluid Force Analysis and Accelerating Sphere Tests, Wallis S. Hamilton and James E. Lindell, HY6:June 71:805:8195

Fluid Mechanics Teaching and Research: A View from a Dean's Office, Hunter Rouse, HY5:May 72:775:8899

Flume Experiments on Alternate Bar Formation, Hai Yain Chang, Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869

Flume Experiments On Flow In Mobile Bed Channels, Richard H. Cooper and Allan W. Peterson, TN: HY10:Oct 70:2167:7575

Forces From Submerged Jets, Norbert L. Ackermann and Rodolfo Undan, HY11:Nov 70:2231:7675

Formation of Dunes and Antidunes in Open Channels, Taizo Hayashi, HY2:Feb 70:357:7056

Formation of Flood Plain Lands, Walter C. Carley, HY3:May 69:981:6574

Fortran-Hydro, Jacques W. Delleur and Gerrit H. Toebes, HY6:Nov 69:1993:6901

Four-Point Method of Characteristics, Michael B. Abbott and Adrianus Verwey, HY12:Dec 70:2549:7763

Free Streamline Analysis of Two-Dimensional Jet, Anat Arbhabhirama, HY4:July 69:1139:6658

Free-Surface Flow Through Heterogeneous Porous Media, Roland W. Jeppson, HY1:Jan 69:363:6364

Free-Surface Ideal Fluid Flows by Finite Element, Stevens T.K. Chan, Bruce E. Larock and Leonard R. Herrmann, HY6:June 73:959:9787

Free Surface Shear Flow Over a Wavy Bed, Yoshiaki Iwasa and John F. Kennedy, HY2:Mar 68:431:5856

Free Surface Slopes at Controls in Channel Flow, David L. Wilkinson, HY8:Aug 74:1107:10753

Free Surface, Velocity Gradient Flow Past Hemisphere, Gordon H. Flammer, J. Paul Tullis and Earl S. Mason, HY7:July 70:1485:7418

Free-Vortex Theory Applied To Free Overfalls, Kamil H.M. Ali and Ann Sykes, TN: HY5:May 72:973:8864

Friction Factor and Reynolds Number in Porous Media Flow, Anat Arbhabhirama and Antonio A. Dinoy, HY6:June 73:901:9784

Friction Factors and Bed Forms in Fluvial Channels, David Squarer, HY4:Apr 70:995:7245

Friction Factors for Corrugated Plastic Tubing, Lee F. Hermsmeier and Lyman S. Willardson, IR3:Sept 70:265:7531

Friction-Factors for Flat-Bed Flows in Sand Channels, Frederico Lovera and John F. Kennedy, HY4:July 69:1227:6678

Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854

Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes, Hemmat H. Safwat and Jaap v.d. Polder, HY11:Nov 73:1933:10158

Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622

Gas Release During Transient Cavitation in Pipes, C. Kranenburg, HY10:Oct 74:1383:10892

General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205

General Hydrologic System Model, Ven Te Chow and V. C. Kulandaiswamy, HY6:June 71:791:8176

Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438

Generalized Stream Temperature Analysis System, Daniel P. Bauer, Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167

Geometric and Frictional Effects on Sudden Releases, Shih-Tun Su and Albert H. Barnes, HY11:Nov 70:2185:7650

Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679

Graphical Solution to Hydraulic Jump, Roland W. Jeppson, HY1:Jan 70:103:7014

Graph-Theoretic Models for Pipe Network Analysis, H. K. Kesavan and M. Chandrashekar, HY2:Feb 72:345:8709
Gravitational and Dispersive Mixing in Aquifers, Lynn W. Gelhar, John L. Wilson, III and John S. Miller, HY12:Dec 72:2135:9439
Gravity-Affected Flow from Planar Sluice Gatel, Bruce E. Larock, HY4:July 69:1211:6674
Ground-Water Hydraulics in Aquifer Management, Eduardo Aguado and Irwin Remson, HY1:Jan 74:103:10287
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72, 216pp.
Ground Water Quality, West Jefferson County, Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417
Ground-Water Recharge Strip Basin-Experiment, Richard R. Brock and Abnish C. Amar, HY4:Apr 74:569:10503
Head Losses in Wyes and Manifolds, Eugen Ruus, HY3:Mar 70:593:7130
Heated Surface Jets in a Steady Crosscurrent, Robert W. Zeller, John A. Hoopes and Gerard A. Rohlich, HY9:Sept 71:1403:8385
Heated Water Jet in Coflowing Turbulent Stream, Mostafa A. Shirazi, Raul S. McQuivey and Thomas N. Keefer, HY7:July 74:919:10661
Height of Sand Dunes in Open Channel Flows, Mohammad Akram Gill, HY12:Dec 71:2067:8612
Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
Heterogeneous Flow of Solids in Pipelines, Iraj Zandi and George C. Govatos, HY3:May 67:145:5244
High Head Gates and Valves in the United States, Cortland C. Lanning, Chmn., HY10:Oct 73:1727:10107
Homestake Delivery System Pipeline, Donald E. Campbell, Thomas A. Marlow and Roy L. Wright, PL2:July 67:71:5353
Homogeneous Suspensions in Circular Conduits, Walter H. Graf and Ertan R. Acaroglu, PL2:July 67:63:5352
Hot-Film Turbulence Measurements in Water Flow, Francois J. Resch, HY3:Mar 70:787:7177
Hourly Rainfall Synthesis for a Network, Delbert D. Franz, HY9:Sept 71:1349:8375
Hydraulic Design of Self-Cleaning Sewage Tunnels, Dagfinn K. Lysne, SA1:Feb 69:17:6404
Hydraulic Design of Unlined Rock Tunnels, Carl J. Huval, HY4:July 69:1235:6679
Hydraulic Engineering and the Environment, William A. Hunt, Chmn., HYB:74, 466pp.
Hydraulicians are Human Too, Hunter Rouse, HY5:May 72:875:8877
Hydraulic Jumps Below Abrupt Symmetrical Expansions, Nallamuthu Rajaratnam and Kanakatti Subramanya, HY2:Mar 68:481:5860
Hydraulic Jump Within Gradually Expanding Channel, Anat Arbhabhirama and Alejandro U. Abella, HY1:Jan 71:31:7831
Hydraulic Network Analysis Using Linear Theory, Don J. Wood and Carl O.A. Charles, HY7:July 72:1157:9031
Hydraulic Performance Of Penstock Trifurcations, Palepu V. Rao, H. C. Misra and R. V. Juyal, PO:Mar 69:35:6456
Hydraulic Properties of Small Unlined Rock Tunnels, Seppo Priha, HY4:July 69:1181:6672
Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498
Hydraulics and Thermal Dispersion in an Irregular Estuary, Ralph R. Boericke and Darryl W. Hall, HY1:Jan 74:85:10282
Hydraulics of a Gravel-Core Fish Screen, Ronald E. Nece and Milo C. Bell, HYB:Aug 73:31
Hydraulics of Spatially Varied Pipe Flow, Walter W. Hu, HY6:Nov 67:281:5599
Hydraulic Treatment Efficiency of Waste Stabilization, Kenneth A. Mangelson and Gary Z. Watters, SA2:Apr 72:407:8849
Hydrodynamical Stability of Salt Wedge, Fang A. Lee, HY1:Jan 74:17:10276
Hydrodynamic Effects of Seepage on Bed Particles, Gary Z. Watters and Manam V.P. Rao, HY3:Mar 71:421:7973
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Hydrodynamics of Surface Irrigation - Advance Phase, John G. Sakkas and Theodor S. Strelkoff, IR1:Mar 74:31:10422
Hydrograph Synthesis by Digital Computer, Michael D. Hudlow and Robert A. Clark, HY3:May 69:839:6555
Hydrologic Consequences of Rainfall Augmentation, Alan M. Lumb and Ray K. Linsley, HY7:July 71:1065:8232
Hydrologic Evaluations in Bridge Pier Scour Design, Peter C. Klingeman, HY12:Dec 73:2175:10224
Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, HY11:Nov 71:1835:8523
Hydrology and Geology of Honolulu Aquifer, David K. Todd and Charles F. Meyer, HY2:Feb 71:233:7910
Hydrology of Porous Pavement Parking Lots, Thomas J. Jackson and Robert M. Ragan, HY12:Dec 74:1739:11010
Hydrology of 7-Day 10-Year Low Flows, Krishan P. Singh and John B. Stall, HY12:Dec 74:1753:11013
Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, HY11:Nov 72:1983:9372
Identification of Parameters in Finite Leaky Aquifer System, Miguel A. Marino, HY2:Feb 73:319:9567
Impinging Circular Turbulent Jets, Spyridon Beltaos and Nallamuthu Rajaratnam, HY10:Oct 74:1313:10852
Implicit Flood Routing in Natural Channels, Michael Amein and Ching S. Fang, HY12:Dec 70:2481:7773
Inception and Entrainment in Self-Aerated Flows, Thimmaiah Gangadharaiah, Nagar S. Lakshmana Rao and Kyatsandra Seetharamiah, HY7:July 70:1549:7427
Incipient Motion and Sediment Transport, Chih Ted Yang, HY10:Oct 73:1679:10067
Increased Logarithmic Weir Profiles, D. Chandrasekaran and Nagar S. Lakshmana Rao, HY11:Nov 74:1583:10946
Independent Comparison of Three Urban Runoff Models, David P. Heeps and Russell G. Mein, HY7:July 74:995:10685
Indeterminate Hydraulics of Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 70:2309:7696
Infiltration and Antecedent Precipitation, Constantine N. Papadakis and Herbert C. Preul, HY8:Aug 73:1235:9940
Influence of Line Motion on Waterhammer Pressures, Don J. Wood, HY3:May 69:941:6572
Influence of Sediments on Transport of Solutes, Earnest F. Gloyna, HY4:July 69:1347:6699
Influence of Suction and Blowing on Entrainment of Sand Particles, Daniel M. Oldenziel and Warner E. Brink, HY7:July 74:935:10672
Influences of Sedimentation on Water Quality: An Inventory of Research Needs, Robert H. Livesey, Chmn., HY8:Aug 71:1203:8325
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
Initial Instability of Fine Bed Sand, Anthony J. Grass, HY3:Mar 70:619:7139
Initial Loss for Flood Estimation and Forecasting, Ian Cordery, HY12:Dec 70:2447:7737
Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72:1057:8952
Initiation of Ripples on Flat Sediment Beds, Philip B. Williams and Patrick H. Kemp, HY4:Apr 71:505:8042
Instability of Flat Bed in Alluvial Channels, Harry M. Hill, Vajapeyam S. Srinivasan and Tharakkal E. Unny, HY5:Sept 69:1545:6770
Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662

Integrating-Float Measurements at Low Velocities, Henry Liu and Larry D. Martin, HY1:Jan 70:143:7027

Integrating-Float Measurements in Turbulent Flows, Henry Liu and Charles D. Morris, HY2:Feb 70:565:7101

Integrating Water Quality and Water Resources Planning, Joseph A. Krivak, HY9:Sept 74:1257:10829

Interaction of Waves with Submerged Objects, C. J. Garrison and V. Seetharama Rao, WW2:May 71:259:8111

Interfacial Wave Breaking in Stratified Liquids, Ralph R. Rumer, Jr., HY3:Mar 73:509:9633

Interior Drainage Design for Hurricane Protection Projects, Donald Van Sickle, HY2:Mar 68:455:5858

Internal Hydraulic Jump In Co-Current Stratified Flow, Norio Hayakawa, TN: EM5:Oct 70:797:7573

Internal Hydraulics of Thermal Discharge Diffusers, Svein Vigander, Rex A. Elder and Norman H. Brooks, HY2:Feb 70:509:7085

Invariant Imbedding and Unsteady Ground-Water Flow, Shin Chang and William Wen-Gong Yeh, HY10:Oct 74:1343:10862

Investigation of Brahmaputra River, Abdul Latif, HY5:Sept 69:1687:6793

Jet-Forced Circulations in Water-Supply Reservoirs, Rodney J. Sobey and Stuart B. Savage, HY12:Dec 74:1809:11026

Jet-Induced Circulation and Diffusion, Constantin Rouse, HY2:Mar 69:589:6445

Junction Losses in Laminar and Transitional Flows, Donald K. Jamison and James R. Villemonte, HY7:July 71:1045:8258

Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275

Laboratory Experiments with Surface Runoff, Ivan Muzik, HY4:Apr 74:501:10463

Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3:Mar 72:489:8765

Lagrangian Characteristics of Surface Turbulence, Eggert Hansen, HY7:July 72:1255:9008

Laminar and Turbulent Overland Flow Hydrographs, James R. Morgali, HY2:Feb 70:441:7069

Least-Cost Design of Water Distribution Systems, Thawat Watanatada, HY9:Sept 73:1497:9974

Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711

Limit Slope in Uniform Computations, Nagar S. Lakshmana Rao and Kalamear Shridharan, HY1:Jan 70:95:7011

Linearizing Weight Factors For Least-Squares Fitting, Llewellyn E. Jones, HY5:May 71:665:8089

Linear-Momentum Flux to Overbank Sections, Robert R. Wright and Marion R. Carstens, HY9:Sept 70:1781:7517

Linear Programming and Channel Flow Identification, William Wen-Gong Yeh and Leonard Becker, HY11:Nov 73:2013:10177

Linear Proportional Weirs, P. Sreenivasulu and R. Raghavendran, HY2:Feb 70:379:7062

Link Between Stochastic and Parametric Hydrology, Rafael G. Quimpo, HY3:Mar 73:461:9602

Local Scour Around Bridge Piers, Hsieh W. Shen, Verne R. Schneider and Susumu Karaki, HY6:Nov 69:1919:6891

Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002

Long-Chain Alcohol Suppression of Snow Evaporation, James R. Meiman and Charles W. Slaughter, HY6:Nov 67:271:5598

Longitudinal Dispersion in Saturated Porous Media, Miguel A. Marino, HY1:Jan 74:151:10296

Longitudinal Dispersion in Sinuous Channels, Shoju Fukuoka and William W. Aure, HY1:Jan 73:195:9479

Longitudinal Dispersion of Bed-Material Particles, Chih Ted Yang and William W. Sayre, HY7:July 71:907:8228

Long Wave Propagation in Idealized Estuary, Donald W. Knight, HY7:July 73:993:9842

Managing Multiriver System—Past, Present, and Future, R. Gene Pollan, HY10:Oct 74:1429:10873

Managing System Operations—Central Valley Project, Dan M. Fults and Lawrence F. Hancock, HY10:Oct 74:1419:10886

Manifold Flow in Subirrigation Pipes, Edwin Zsak, HY10:Oct 71:1737:8477

Manning Formula-A Misnomer, Garnett P. Williams, HY1:Jan 70:193:7036

Manning n for Cast-in-Place Concrete Pipe, Thomas T. Wilson, Jr. and Edib Kirdar, HY3:May 69:995:6575

Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830

A Man of Hydraulics: Henri de Pitot (1695-1771), Rene Chevray, HY4:July 69:1129:6650

Markov Models for Flow Regulation, Moshe Gablinger and Daniel P. Loucks, HY1:Jan 70:165:7031

Master Planning Methodology for Urban Drainage, Harold F. Bishop, HY1:Jan 74:189:10290

Mathematical Model For Water Distribution Systems, Mehdi S. Zarghamee, HY1:Jan 71:1:7797

Mathematical Tidal Study of St. Lawrence River, J. William Kamphuis, HY3:Mar 70:643:7141

Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472

Maximum Entropy Mixing in Estuaries, Dominic M. Di Toro, TE4:July 69:1247:6885

Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB:Aug 73:43

Measurement of Turbulence in Water, Everett V. Richardson and Raul S. McQuivey, HY2:Mar 68:411:5855

Measurement of Velocity-Concentration Covariance, Raul S. McQuivey and Thomas N. Keefer, HY9:Sept 72:1625:9184

Measurements of Turbulence in Water at High Velocity, Stephen C. Ko, TN: HY12:Dec 72:2253:9397

Mechanics of Stratified Flow Through Orifices, Joseph P. Bohan and John L. Grace, Jr., HY12:Dec 70:2401:7757

Mechanism for Streamflow Meandering, Michael C. Quick, HY6:June 74:741:10587

Metagame Analysis of Water Resources Conflicts, Keith W. Hipel, R. K. Ragade and Tharakkal E. Unny, HY10:Oct 74:1437:10861

Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451

Method of Additional Seepage Resistances—Theory and Application, Tatiana D. Streltsova, HY8:Aug 74:1119:10746

Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72:1575:9206

Minimum Length of Salt Intrusion in Estuaries, Ben P. Rigter, HY9:Sept 73:1475:10010

Mission of U.S. Lake Survey, James E. Bunch, SU2:Sept 70:181:7527

Mixed Technique for Computing Surges in Channels, J. Ian Collins and Samuel N. Fersht, HY2:Mar 68:349:5831

Model for Sediment Transport through an Estuary Cross Section, Herbert H. Stevens, Jr., David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279

Modeling of Structures Subjected to Wind Waves, Erich J. Plate and John H. Nath, WW4:Nov 69:491:6904

Model Study of Dense Jet in Flowing Fluid, Forrest M. Holly, Jr. and John L. Grace, Jr., HY11:Nov 72:1921:9365

Model Study of Power Intake Gate Of Mossyrock Dam, Robert A. Robertson and James W. Ball, HY7:July 71:889:8229

A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171:9034

Modified USBR Impact Basin, Clifford D. Smith and Elias M. Korolischuk, TN: HY1:Jan 73:153:9463

Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437

Mossyrock Arch Spillway, David S. Louie, PO1:Jan 71:39:7792

Motion of Single Particles in Alluvial Channels, Neil S. Grigg, HY12:Dec 70:2501:7770

Movement of Sand in Tunnels, Dagfinn K. Lysne, HY6:Nov 69:1835:6880

Movement of Small Gas Bubbles in Smoothly Decelerating Liquid, Subba Rao Gutti, HY7:July 71:117:8251

Multilake River System Operation Rules, Chin-shu Liu and Allan C. Tedrow, HY9:Sept 73:1369:10021

Multilevel Outlet Works at Four Existing Reservoirs, Garry H. Austin, Donald A. Gray and Donald G. Swain, HY6:Nov 69:1793:6877

Multiple Linearization Flow Routing Model, Thomas N. Keefer and Raul S. McQuivey, HY7:July 74:1031:10668

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827:9304

Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192

Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131

National System for Water Data, Russel H. Langford and George H. Davis, HY7:July 70:1391:7392

National Weather Service River Forecasting System, John C. Monro and Eric A. Anderson, HY5:May 74:621:10549

Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078

Needle Valves as Pressure Regulators, J. Paul Tullis and Maurice L. Albertson, HY5:Sept 69:1633:6787

New Approach to Hydrologic Data Acquisition, Edward J. Langham, HY12:Dec 71:1965:8578

New Developments in the Field of Tidal Hydraulics, Joseph M. Caldwell, HY1:Jan 69:1:6339

New Horizons in the Field of Tidal Hydraulics, Clarence F. Wicker, HY1:Jan 69:147:6346

Nomographs For Some Cumulative Frequency Distributions, Frederic T. Mavis, TN: HY10:Oct 70:2177:7575

Nonconservative Stability by Finite Element, C. D. Mote, Jr., EM3:June 71:645:8204

Nondimensional Gradually Varied Flow Profiles, Cheng-lung Chen and Chun-Tsung Wang, HY5:Sept 69:1671:6790

Nonenlarged Box Culvert Inlets, John L. French, HY6:Nov 69:2115:6928

Nonequilibrium Transport of Suspended Sediment, Allen T. Hjelmfelt and Charles W. Lenau, HY7:July 70:1567:7430

Nonlinear Equation of Unsteady Ground-Water Flow, John C. Bruch, Jr., HY3:Mar 73:395:9589

Nonlinear Flow in Porous Media by Finite Elements, Raymond Edward Volker, HY6:Nov 69:2093:6927

Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333

Nonsteady Flow to Surface Reservoir, William Wen-Gong Yeh, HY3:Mar 70:609:7137

Nonuniform Flow in Flat Rectangular Channels, Kuan M. Yao, HY9:Sept 71:1343:8369

Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300

Numerical Method of Computing Flow Profiles, Ramanand Prasad, HY1:Jan 70:75:7005

Numerical Model of St. Lawrence River Estuary, David Prandle and Norman L. Crookshank, HY4:Apr 74:517:10472

Numerical Solution of Multiphase Well Flow, Willem F. Brutsaert, HY11:Nov 73:1981:10162

Numerical Solution of Saint-Venant Equations, Theodor S. Strelkoff, HY1:Jan 70:223:7043

Objective Determination of Safety Factor in Reservoir Design, E. R. Close, Leo R. Beard and David R. Dawdy, HY5:May 70:1167:7297

Observations on Hydraulic Jumps at Rounded Step, James J. Sharp, HY6:June 74:787:10592

One-Dimensional Analysis of Floods and Tides in Open Channels, Armando Balloffet, HY4:July 69:1429:6695

One-Dimensional Equation of Open-Channel Flow, Theodor S. Strelkoff, HY3:May 69:861:6557

On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335

On the Concept of Mean Hydraulic Radius, Desmond F. Moore, HY4:July 69:1305:6691

Open Channel Expansions Fitted with Local Hump, Amruthur S. Ramamurthy, Sanjay Basak and Pattabhi Rama Rao, HY5:May 70:1105:7257

Open-Channel Simulation by Digital Computer, C. Samuel Martin and Frank G. De Fazio, HY6:Nov 69:2049:6911

Operational Hydrology Using Residuals, George K. Young, Jr. and William C. Pisano, HY4:July 68:909:6034

Optical Current Meter Use in Southern California, Thomas S. Chandler and Winchell Smith, HY9:Sept 71:1461:8390

Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088

Optimal Conjunctive Use Model for Indus Basin, Mohammad T. Chaudhry, John W. Labadie, Warren A. Hall and Maurice L. Albertson, HY5:May 74:667:10550

Optimal Design for Highway Drainage Culverts, George K. Young, Jr., Mitchell R. Childrey and Roy E. Trent, HY7:July 74:971:10676

Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414

Optimal Policy for Reservoir Operation, Ricardo C. Harboe, Fereidoun Mobasheri and William Wen-Gong Yeh, HY11:Nov 70:2297:7673

Optimal Pumping for Aquifer Dewatering, Eduardo Aguado, Irwin Remson, Mary F. Pikul and Will A. Thomas, HY7:July 74:869:10639

Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972

Optimization of Multiple Reservoir System, William J. Trott and William Wen-Gong Yeh, HY10:Oct 73:1865:10065

Optimum Design of Complex Water Resource Projects, David Stephenson, HY6:June 70:1229:7320

Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11:Nov 72:2015:9370

Oroville Dam Diversion Tunnels, Cortland C. Lanning, PO2:Oct 67:51:5506

Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546

Oscillations in Surge Tanks, Mohammad Akram Gill, HY10:Oct 74:1369:10891

Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72:1343:9119

Parameters for Bed Slip Point in Two-Phase Flow, Kenneth C. Wilson, HY10:Oct 71:1665:8426

Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB:Aug 73:21

Particle Size of River Sediments, George Fleming and Thomas Poodle, HY2:Feb 69:431:7068

Pattern Of Potential Flow in a Free Overfall, Theodor S. Strelkoff and Mohammad S. Moayeri, HY4:Apr 70:879:7207

Performance and Design of Labyrinth Weirs, Nessim Hay and Geoffrey Taylor, HY11:Nov 70:2337:7691

Performance Characteristics of Siphon Outlets, Alan F. Babb and William K. Johnson, HY6:Nov 68:1421:6237

Periodic Permanent Roll Waves, Richard R. Brock, HY12:Dec 70:2565:7764

Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9:Sept 72:1527:9186

Photographic Study Of Water Column Separation, Hemmat H. Safwat, TN: HY4:Apr 72:739:8803

Photomicroscopic Sublayer Velocity Measurement, Harry G. Wenzel, Jr. and Michael J. Mathews, HY12:Dec 70:2467:7724

Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259
Physical Interpretation Of Jet Dilution Parameters, James J. Sharp, SA1:Feb 68:55:5789
Physico-Chemical Factors in Erosion of Cohesive Soils, Arunachalan Sargunam, Patrick Reley, Kandiah Arulanandan and Ray B. Krone, TN: HY3:Mar 73:555:9609
Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113
Pipelining of Low-Concentration Sand-Water Mixtures, Millard P. Robinson, Jr. and Walter H. Graf, HY7:July 72:1221:9060
Plane Jet on Sloping Floors Under Finite Submergence, Valupadas Mura Hari, HY9:Sept 73: 1449:10027
Plane Turbulent Reattached Wall Jets, Nallamuthu Rajaratnam and Kanakatti Subramanya, HY1:Jan 68:95:5724
Plastic Analysis of a Plate Sealing a Fluid, Richard H. Lance and David N. Robinson, EM6:Dec 70: 1183:7742
Plotting Positions for Hydrologic Frequencies, John R. Stipp and George K. Young, Jr., TN: HY1:Jan 71:219:7824
Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB: Aug 73:427
Potamology Data Collection on Lower Mississippi River, Charles M. Elliott, WW3:Aug 70:601:7466
Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680
Power Law Solutions for Vertical Plumes, Richard R. Brock, HY9:Sept 70:1803:7523
Power Losses and Flow Topologies in Manifold, Jaime Amorocho and Johannes J. DeVries, HY1: Jan 71:81:7791
Predicting Concentration Profiles in Open Channels, Harvey E. Jobson and William W. Sayre, HY10: Oct 70:1983:7618
Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73: 383
Predicting Sediment Yield in Western United States, Elliott M. Flaxman, HY12:Dec 72:2073:9432
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856
Prediction of Near-Surface Drift Currents from Wind Velocity, Jin Wu, HY9:Sept 73:1291:9995
Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5: May 73:729:9730
Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3: Mar 72:503:8769
Present Day Evaporation Measurement Techniques, G. Earl Harbeck, Jr. and J. Stuart Meyers, HY7: July 70:1381:7388
Pressure Fluctuations in Reattaching Flow, Rangaswami Narayanan and Alan J. Reynolds, HY6:Nov 68:1383:6212
Pressure Fluctuations on Submerged Sluice Gate, Gordon Keir, Tharakkal E. Unny and Harry M. Hill, HY4:Nov 69:1781:6875
Pressure Surge Attenuation Utilizing an Air Chamber, Don J. Wood, HY5:May 70:1143:7267
Profile of the Hydraulic Jump, Nallamuthu Rajaratnam and Kanakatti Subramanya, HY3:May 68:663:5931
Propagation of Flood Waves in Open Channels, Bahram Mozayeny and Charles C.S. Song, HY3: May 69:877:6561
Properties of Circulation in Stratified Lakes, James A. Liggett and Kwang K. Lee, HY1:Jan 71:15:7793
Quality Related Costs of Regional Water Users, Michael B. Sonnen, HY10:Oct 73:1849:10076
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733
Rainfall Excess Model from Soil Water Flow Theory, Roger E. Smith and Donald L. Chery, Jr., HY9: Sept 73:1337:9990
Rapid Creek Watershed, Donald A. Thorson, HYB: Aug 73:449
Reaeration Prediction in Natural Streams, Edward L. Thackston and Peter A. Krenkel, SA1:Feb 69:65: 6407
Real-Time Computer Control of Urban Runoff, James J. Anderson, HY1:Jan 70:153:7028
Real Time Routing of Flood Hydrographs in Storm Sewers, Garth S. Harris, HY6:June 70:1247:7327
Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919
Rectangular Cutthroat Flow Measuring Flumes, Gaylord V. Skogerboe and M. Leon Hyatt, IR:Dec 67:1:5628
Reevaluating Spillway Adequacy of Existing Dams, Russell W. Revell, Chmn., HY2:Feb 73:337:9571
Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952
Regional Sediment Yield Analysis of Alaska Streams, Gary L. Guymon, HY1:Jan 74:41:10255
Register of Selective Withdrawal Works in United States, Task Committee on Outlet Works, Committee on Hydraulic Structures, Ronald E. Nece, Chmn., HY9:Sept 70:1841:7533
Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241
Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1
Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503
Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
Research and Planning in Fluid Mechanics, Stephen J. Kline, HY5:May 72:765:8898
Research Needs on Thermal and Sedimentary Pollution in Tidal Waters by the Committee on Tidal Hydraulics of the Hydraulics Division, Frank D. Masch, Chmn., HY7:July 70:1539:7426
Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058
Reservoir Operation Using Snow Survey Data, Phillip E. Farnes, HYB:Aug 73:249
Reservoir System Design Optimization, Richard J. Butsch, HY1:Jan 70:125:7023
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
Resistance Studies on Smooth Open Channels, V. V. Jayaraman, HY5:May 70:1129:7266
Resistance to Flow over Two-Dimensional Strip Roughness, K. G. Ranga Raju and Ramachandra J. Garde, HY3:Mar 70:815:7181
Resistance to Reversing Flows over Movable Beds, Mehmetcik Bayazit, HY4:July 69:1109:6649
Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691
Resonance in Pressurized Piping Systems, Mohammad Hanif Chaudhry, HY9:Sept 70:1819: 7525
Ripple and Dune Phases in a Narrowly Graded Sand, Christopher John Pratt and Kenneth V.H. Smith, HY5:May 72:859:8912
Ripple Concentration and Friction Factor, Fred F.M. Chang, HY2:Feb 70:417:7067
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441: 9618
Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603: 9191
Risks in Hydrologic Design of Engineering Projects, Ben Chie Yen, HY4:Apr 70:959:7229
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814
River Channel Patterns, Shrikrishna V. Chitale, HY1: Jan 70:201:7038
River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1: Jan 74:1:10281
River Regulation as Influence on Peak Discharge, Alan F. Huggins and Martin R. Griek, HY7:July 74:901:10671

River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130
Routing Storm Water Through a Drainage System, Subin Pinkayan, HY1:Jan 72:123:8642
Run Hydrographs from Poisson Generated Run Lengths, Lourens A.V. Hiemstra, HY11:Nov 74: 1617:10959
Runoff Forecasting By Variable Transformation, Mikio Hino, HY4:Apr 70:871:7203
Runoff Forecasts by Linear Predictive Filter, Mikio Hino, HY3:Mar 70:681:7146
Runoff Routing Through Steep Natural Channels, Rolf Kellerhals, HY11:Nov 70:2201:7666
Safety of Dams - Bureau of Reclamation, Donald A. Gray, HY2:Feb 74:267:10354
Safety of Dams -- Hydrologic and Hydraulic Aspects, Vernon K. Hagen, IMROD:Sept 73:337
Salt Water Interface During Ground-Water Pumping, Norbert L. Ackermann and Y. Y. Chang, HY2:Feb 71:223:7920
Saltwater Intrusion in the United States, C. B. Sherwood, HY5:Sept 69:1651:6788
Sampling Procedures for Coarse Fluvial Sediments, Rolf Kellerhals and Dale I. Bray, HY8:Aug 71: 1165:8279
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201
Scale Effects in Swirling Flow, John A. McCorquodale, HY1:Jan 68:285:5767
Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732
Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: A. Fluvial Sediment, Task Committee on Preparation of the Sedimentation Manual, Vito A. Vanoni, HY5:Sept 69:1477:6756
Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: F. Laboratory Procedures, Task Committee on Preparation of the Sedimentation Manual, Vito A. Vanoni, HY5:Sept 69:1515:6757
Sedimentation Engineering, Chapter IV: Sediment Sources and Sediment Yields, Task Committee on Preparation of Manual on Sedimentation, Vito A. Vanoni, Chmn., HY6:June 70:1283:7337
Sedimentation Engineering, Chapter II: Sediment Transportation Mechanics: Q. Genetic Classification of Valley Sediment Deposits, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:43: 7815
Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY5:May 70:1157:7269
Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73: 1551:10033
Sedimentation in Retarding Basins, Lamont W. Curtis, HY3:May 68:739:5951
Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Vito A. Vanoni, Chmn., HY12:Dec 71:1979:8591
Sediment Balance of Clyde Estuary, George Fleming, HY11:Nov 70:2219:7676
Sediment Control Methods: D. Reservoirs, Vito A. Vanoni, Chmn., HY4:Apr 73:617:9671
Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783
Sediment Dispersion in Flow with Moving Boundaries, Cheng-lung Chen, HY8:Aug 71:1181: 8287
Sediment Measurement Techniques: E. Airborne Sediment, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY1:Jan 70:29:7001
Sediment-Pickup Function, Albert R. LeFeuvre, Hilmi D. Altinbilek and Marion R. Carstens, HY10:Oct 70:2051:7636
Sediment Sampling Efficiency of Slots, Michael Poreh, Abraham Sagiv and Ido Seginer, HY10:Oct 70:2065:7637
Sediment Transportation Mechanics: J. Transportation of Sediment in Pipes, Vito A. Vanoni, Chmn., HY7:July 70:1503:7423
Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division, Vito A. Vanoni, Chmn., HY4:Apr 71:523:8076
Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Vito A. Vanoni, Chmn., HY1:Jan 71:101:7786
Sediment Transportation Mechanics: Nature of Sedimentation Problems, by Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY2:Mar 65:4260
Sediment Transport at Low Shields-Parameter Values, Erik Helland-Hansen, Robert T. Milhous and Peter C. Klingeman, TN: HY1:Jan 74:261: 10283
Sediment Transport in Tidal River, Amarendra N. Biswas and Arun K. Chakrabarti, HY11:Nov 74: 1677:10964
Sediment Transport Measurements in Gravel River, Albert B. Hollingshead, HY11:Nov 71:1817:8521
Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11: Nov 73:2041:10167
Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293
Sediment Yeilds from Central Colorado Snow Zone, Charles F. Leaf, HY1:Jan 70:87:7006
Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12: Dec 72:2087:9426
Seepage Force on Interfacial Bed Particles, C. Samuel Martin and Mustafa M. Aral, HY7:July 71:1081: 8239
Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875
Seepage From Shallow Reservoir, Bruce W. Hunt, HY1:Jan 73:23:9476
Seepage from Trapezoidal Channels, Satya P. Garg and Amrik S. Chawla, HY6:June 70:1261:7335
Seepage into a Sheet Pile Cofferdam, B. S. Rama Rao and J. Visweswara Rao, HY9:Sept 73:1515:10001
Seepage Study Using Electrical Analog, Heinz Stefan and Johannes Meyer, HY2:Feb 70:411:7064
Self-Aerated Flow Characteristics in Wall Region, Nagar S. Lakshmana Rao and Thimmaiah Gangadharaiah, HY9:Sept 71:1285:8359
Self-Stabilizing Tendencies of Alluvial Channels, Johannes Gessler, WW2:May 70:235:7263
Sequential Deterministic Optimization in Reservoir Operation, Thomas E. Croley, II, HY3:Mar 74:443: 10426
Sequential Stochastic Optimization for Reservoir System, Thomas E. Croley, II, HY1:Jan 74:201: 10263
Settling Parameter in Solids Pipelining, M. P. duPlessis and R. W. Ansley, PL2:July 67:1:5340
Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506
Shear Flow Past Circular Cylinder, Thomas L. Shaw and Michael R. Starr, HY3:Mar 72:461:8774
Sill-Controlled Flow Transitions and Extent of Erosion, Walter Rand, HY4:Apr 70:927:7212
Similarity in Unlined Irrigation Canal Systems, Kenneth V.H. Smith, HY1:Jan 70:13:6993
Similitude Criteria for Flow from Unconfined Aquifers, Rameshwar D. Verma and Wilfried Brutsaert, HY9:Sept 71:1493:8397
Similitude in Free-Surface Vortex Formations, Larry L. Daggett and Garbis H. Keulegan, HY11:Nov 74: 1565:10941

Simple Method for Predicting Dispersion in Streams, Raul S. McQuivey and Thomas N. Keefer, EE4: Aug 74:997:10708

Simple Nonlinear Model for Flood Estimation, Russell G. Mein, Eric M. Laurenson and Thomas A. McMahon, HY11:Nov 74:1507:10933

Simulation Accuracies of Gradually Varied Flow, J. Peter Jolly and Vujica Yevjevich, HY7:July 74: 1011:10677

Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020

Simulation Model for Flow Augmentation Costs, Armando I. Perez, John C. Schaake, Jr. and Edwin E. Pyatt, HY1:Jan 70:131:7026

Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056

Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831

Simulation of Waves by an Underwater Explosion, Jan Malan Jordaan, Jr., WW3:Aug 69:355:6745

Siphons: Some Scale-Effects in Models, Richard B. Whittington and Kamil H.M. Ali, HY1:Jan 72:45: 8629

Slip Points of Beds in Solid-Liquid Pipeline Flow, Kenneth C. Wilson, HY1:Jan 70:1:6992

Snow Fence Shielding of Precipitation Gages, Paul A. Rechard and Lee W. Larson, HY9:Sept 71:1427: 8386

Solution for Gravity Flow Under a Sluice Gate, Delmar D. Fangmeier and Theodor S. Strelkoff, EM1:Feb 68:153:5797

Solution Of Hydraulic Jump In Horizontal Channels By Graphs, Yin Au Yeung, TN: HY8:Aug 72:1465: 9083

Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9: Sept 73:1531:10004

Some Basic Concepts on Flow in Branching Conduits (Abstract), James R. Villemonte, HYB:Aug 73:203

Some Design Aspects of a Divided Gate Tower, W. L. Grigg, Robert E. Johnson and Rolf Kellerhals, PO2:Oct 67:1:5482

Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169

Some Sediment Aspects of Tropical Storm Agnes, Harold P. Guy and Terry L. Clayton, TN: HY9: Sept 73:1653:10024

Some Turbulence Measurements in Open-Channel Flow, Raul S. McQuivey and Everett V. Richardson, HY1:Jan 69:209:6349

Sources of Computer Programs, Kneeland A. Godfrey, Jr., CE:June 74:51

Space Correlations in Round Turbulent Jet, Sedat Sami, HY3:May 69:907:6565

Spatially Varied Flow Over Side-Weirs, Kanakatti Subramanya and Subhash Chandra Awasthy, HY1: Jan 72:1:8627

Spillway Design for Series of Reservoirs, Catalino B. Cecilio, Brook A. Kraeger and Vefa Yucel, HY10: Oct 74:1329:10851

Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676

Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533

Spread of Buoyant Jets at the Free Surface, James J. Sharp, HY3:May 69:811:6538

Stability Criteria for Open-Channel Flow, Themistocles A. Dracos and Bard Glenne, HY6: Nov 67:79:5566

Stability of Floating Ice Blocks, Mehmet S. Uzuner and John F. Kennedy, HY12:Dec 72:2117:9418

Stability of Oscillations in Simple Surge Tank, Eugen Ruus, HY5:Sept 69:1577:6773

Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381

Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72: 1117:9014

State Flood-Plain Management Activities, Jack G. Johnson, HY10:Oct 70:2041:7589

Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358

Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658

Steady and Unsteady Flow Towards Gravity Wells, Mohammad Ali Mahdaviani, HY6:Nov 67:135: 5581

Steady Flow Past Flat Plate in Channel, Thomas L. Shaw, HY6:Nov 69:2013:6903

Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093

Stochastic Analysis of Daily River Flows, Rafael G. Quimpo, HY1:Jan 68:43:5719

Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, HY7:July 74:849:10657

Stochastic Analysis of Periodic Hydrologic Process, Rezaul Karim Bhuiya, HY7:July 71:949:8242

Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165

Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72: 1935:9353

Stochastic Model For Sand Dispersion, Chih Ted Yang and William W. Sayre, HY2:Feb 71:265:7892

Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562

Stratification of Flow from Channel into Deep Lake, Heinz Stefan, HY7:July 70:1417:7401

Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969

Streamlines in Two-Dimensional Laminar Branch Flows, David Charles Blest, HY1:Jan 72:171:8656

Stream Turbulence Effects On Turbulent Boundary Layer, James M. Robertson and Charles F. Holt, TN: HY6:June 72:1095:8932

Studies on Seepage from Canals with Partial Lining, Kanakatti Subramanya, Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333: 10197

Subcritical Kinematic Flow in a Stable Stream, William J. Gburek and Donald E. Overton, HY9: Sept 73:1433:10026

Subsurface Environment—Private Property or Public Domain?, William R. Walker and William E. Cox, HY11:Nov 74:1699:10958

Successful Ice Dusting at Fairbanks, Alaska, 1966, R. Gordan Cook and Mason D. Wade, Jr., HY1:Jan 68:31:5717

Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691: 9216

Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846

Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235

Surface Disturbance from Submerged Jet, Norbert L. Ackermann, Rafael T. Apostol and Suvit Siriyong, HY7:July 71:937:8236

Surface Irrigation Hydraulics and Kinematics, William E. Hart, Day L. Bassett and Theodor S. Strelkoff, IR4:Dec 68:419:6284

Surface Irrigation Using the Kinematic-Wave MethoS, Cheng-lung Chen, IR1:Mar 70:39:7134

Surface Jet at Small Richardson Numbers, Frank Engelund and Flemming Bo Pedersen, HY3:Mar 73:405:9588

Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669

Surface Runoff Hydrograph Equation, Vulli L. Gupta and Syed A. Moin, HY10:Oct 74:1353:10880

Surface Shear Waves, D. Howell Peregrine, HY9:Sept 74:1215:10809

Surface Tension in Froude Models, W. Hall C. Maxwell and J. Richard Weggel, HY2:Mar 69:677: 6482

Surface Water Resources Planning in Hudson Basin, Gerald T. McCarthy and Nicholas L. Barbarossa, HY2:Mar 68:375:5841

Surging in Laboratory Pipeline with Steady Inflow, Edward R. Holley, HY3:May 69:961:6573

Survey of Programs for Water-Surface Profiles, Bill S. Eichert, HY2:Feb 70:547:7098

Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062

Suspended Load In Bhagirathi River System, Amarendra N. Biswas, TN: HY1:Jan 72:315:8617
Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11
Swirling Shallow Submerged Turbulent Plumes, Jai P. Narain, HY9:Sept 74:1229:10820
Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887
Systematization of Flood Control Measures, Vujica Yevjevich, HY11:Nov 74:1537:10943
Systemic Variation Pattern of Annual River Flows, Frank W.F. Waitt and Ian C. O'Neill, HY3:May 69:787:6531
Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659
Systems Approach to Power Planning, J. George Thon, HY4:Apr 73:589:9661
Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897
Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12:Dec 72:2191:9456
Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8:Aug 72:1427:9105
Temperature Prediction in Stratified Reservoirs, Wayne C. Huber, Donald R.F. Harleman and Patrick J. Ryan, HY4:Apr 72:645:8839
Temperature Variations in Deep Reservoirs, Gerald T. Orlob and Lawrence G. Selna, HY2:Feb 70:391:7063
Testing Methods for Determination of Urban Runoff, Constantine N. Papadakis and Herbert C. Preul, HY9:Sept 73:1319:9987
Testing Sediment Movement Due to Wave Action, Geoffrey R. Mogridge, HY7:July 70:1587:7433
Tests of Scour Protection for Bridge Piers, Chesley J. Posey, HY12:Dec 74:1773:11017
Tests on Cylinders in Turbulent Flow, Walter H. Graf and Stephen C. Ko, TN: HY8:Aug 71:1265:8274
Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942
Theoretical Baseflow Curves, Krishan P. Singh, HY6:Nov 69:2029:6905
Three-Dimensional Density Current, Trevor R. Fietz and Ian R. Wood, HY6:Nov 67:1:5549
Three-Dimensional Turbulent Wall Jets, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY1:Jan 74:69:10294
Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7:July 73:1129:9871
Tidal Flow in Exponentially Varying Estuaries, Wen-Hsiung Li and Michael Edwin Kozlowski, HY11:Nov 74:1649:10967
Tidal Hydraulics in the Cano Macareo, Shih-Ang Zagustin, Frank D. Masch and Robert J. Brandes, CE13:72:III-2429
Tidal Velocities Across A Partly-Completed Barrage, A. Roy Halliwell, HY5:Oct 67:85:5427
Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728
Timing and Sizing of Complex Water Resource Systems, Leonard Becker and William Wen-Gong Yeh, HY10:Oct 74:1457:10883
Tracer Studies of Sediment Transport Processes, Ronald E. Rathbun and Carl F. Nordin, HY9:Sept 71:1305:8364
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
Transformation of Moody Diagram, Krishna C. Asthana, HY6:June 74:797:10624
Transient Control in Lower Sacramento River, Fred J. Gientke, HY3:Mar 74:405:10418
Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191
Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611
Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466
Translations of Foreign Literature on Hydraulics, Jan C. Van Tienhoven, Chmn., HY10:Oct 70:2079:7630
Transport Equation Stability and Estuary Modeling, Fred G. Haag and Keith W. Bedford, HY12:Dec 71:2051:8610
Transverse Dispersion in Oscillatory Channel Flow, Peter R.B. Ward, HY6:June 74:755:10589
Transverse Flow in a River due to Earth's Rotation, Hans A. Neu, HY5:Sept 67:149:5434
Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72:1187:9061
Turbulence in Wakes of Roughness Elements, C. K. Chen and John A. Roberson, HY1:Jan 74:53:10257
Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY7:July 72:1101:9009
Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992
Turbulent Flows Past Boundaries with Small Streamwise Flows, John F. Kennedy, Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664
Two-Component " Force-Balance, Avittathur Achyuthan and Viswanatha Sethuraman, TN: HY2:Feb 74:339:10340
Two-Dimensional Analysis of Backwater at Bridges, J. Thomas Franques and Dannial W. Yannitell, HY3:Mar 74:379:10403
Two-Dimensional Analysis of Flow in Jet Pumps, Barry J. Hill, HY7:July 73:1009:9847
Two-Dimensional Surface Warm Jets, Robert C. Y. Koh, HY6:June 71:819:8186
Two-Distribution Method for Flood Frequency Analysis, Krishan P. Singh and Robert A. Sinclair, HY1:Jan 72:29:8639
Unconfined Aquifer Seepage by Capillary Flow Theory, Rameshwar D. Verma and Wilfried Brutsaert, HY6:June 70:1331:7363
Unified Formulation of Wall Turbulence, Gour-Tsyh Yeh, TN: HY12:Dec 72:2263:9397
Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468
Unit-Response Method of Open-Channel Flow Routing, Vernon B. Sauer, HY1:Jan 73:179:9499
Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
Universal Formula For Uniform Flow, Walter O. Wunderlich, CE:Jan 70:50
University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
Unsteady Circulation in Shallow, Homogeneous Lakes, James A. Liggett, HY4:July 69:1273:6686
Unsteady Drawdown in Well Groups, Raymond J. Krizek, Gabor M. Karadi and D. Babu Rao, HY10:Oct 71:1625:8436
Unsteady Flow in Channel of Variable Cross Section, John Ellis, HY10:Oct 70:1927:7583
Unsteady Flow Simulation in Rivers and Reservoirs, Jack M. Garrison, Jean-Pierre P. Granju and James T. Price, HY5:Sept 69:1559:6771
Unsteady Free-Surface Flow Computations, E. Benjamin Wylie, HY11:Nov 70:2241:7683
Unsteady Free Surface Ground Water Seepage, Rameshwar D. Verma and Wilfried Brutsaert, HY8:Aug 71:1213:8337
Unsteady Seepage Toward Narrow Ditch, Bruce W. Hunt, HY10:Oct 70:1953:7586
Unsteady Seepage Toward Sink Beneath Free Surface, Bruce W. Hunt, HY4:Apr 70:859:7202
Unsteady Spread of Buoyant Surface Discharge, James J. Sharp, HY9:Sept 71:1471:8396
Urban Flood Frequency Characteristics, William H. Espey, Jr. and David E. Winslow, HY2:Feb 74:279:10352

Urban Runoff by Linearized Subhydrographic Method, Jong-Song Chien and Krishan K. Saigal, HY8:Aug 74:1141:10766
Urban Runoff by Road Research Laboratory Method, Michael L. Terstriep and John B. Stall, HY6:Nov 69:1809:6878
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
Urban Water Planning and Management: A Conceptual Framework and Problem Focus, John R. Sheaffer, UWRM:71:5
Use of Decision Theory in Reservoir Operation, Samuel O. Russell, HY6:June 74:809:10586
Use of Systems Analysis in Water Resources Planning, William K. Johnson, HY9:Sept 72:1543:9174
Uses of Models in Resolving Tidal Problems, Henry B. Simmons, HY1:Jan 69:125:6345
Using Experimental Models to Guide Data Gathering, Charles F. Meyer, HY10:Oct 71:1681:8449
Validity of Dupuit-Forchheimer Equation, Willard A. Murray and Peter L. Monkmeyer, HY9:Sept 73:1573:9997
Validity of Stokes Theory for Accelerating Spheres, Lyle F. Mockros and Robert Y.S. Lai, EM3:June 69:629:6613
Validity Of Two-Point Method Of Velocity Sampling, Robert P. Apmann, TN: HY10:Oct 70:2171:7575
Valve Stroking in Separated Pipe Flow, Morris Driels, HY11:Nov 74:1549:10940
Variational Approach to Non-Darcy Flow, John A. McCorquodale, HY11:Nov 70:2265:7694
Variational Principle in Fluid Dynamics, Pierre F. Lemieux, Tharakkal E. Unny and R. N. Dubey, EM6:Dec 70:1031:7731
Variation in Lag Time for Natural Catchments, Arthur J. Askew, HY2:Feb 70:317:7051
Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514
Vertical Recharge of Unconfined Aquifer, Bruce W. Hunt, HY7:July 71:1017:8257
Vertical Transfer in Open Channel Flow, Harvey E. Jobson and William W. Sayre, HY3:Mar 70:703:7148
Vibration Analysis of Pump Discharge Lines, Jesse M. Diaz and Ravinder K. Jain, HY11:Nov 70:2279:7678
Virtual Mass Of Cylinders In Water, Frederic T. Mavis, TN: HY1:Jan 72:319:8617
Virtual Mass of Plates and Discs in Water, Frederic T. Mavis, HY10:Oct 70:1947:7593
Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999
Vortex-Induced Oscillations at Low-Head Weirs, Zoltan G. Hanko, HY2:Nov 67:255:5597
Vortex Suppression in Stilling Pond Overflow, Y. R. Reddy and John Pickford, HY11:Nov 74:1685:10969
Wall Effect on a Sphere in a Rotating Viscous Fluid, Philip K. Davis, HY10:Oct 70:2019:7625
Wall Shear Stress Measurements with Hot-Film Sensors, Oner Yucel and Walter H. Graf, HYB:Aug 73:55
Water Accounting at Pumping Station S-5A in Florida, Claiborne F. Galliher, IR4:Dec 69:517:6970
Water Distribution Systems Analysis, Uri Shamir and Charles D.D. Howard, HY1:Jan 68:219:5758
Water Exchange in Two-Layer Stratified Waters, Hans Hyden, HY3:Mar 74:345:10402
Water Hammer Analysis, Victor L. Streeter, HY6:Nov 69:1959:6899
Water-Hammer Charts for Various Types of Valves, Don J. Wood and S. E. Jones, HY1:Jan 73:167:9500
Water Infiltration in Hawaiian Sugarcane Furrows, Harlan G. Collins and Robert B. Campbell, IR4:Dec 67:81:5669
Water Pollution Control by Hydraulic Aeration, Hans J. Leutheusser and Francois J. Resch, HYB:Aug 73:315
Water Resources Planning For Pascagoula Basin, Mason B. Oldham, Jr. and John W. Rushing, WW1:Feb 70:65:7060
Water Resources Planning Model, John F. Brotchie, TN: HY10:Oct 71:1801:8413
Water Wave Pressure on Horizontal Plate, Hsiang Wang, HY10:Oct 70:1997:7629
Wave Forces on Cylinders Near a Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, HYB:Aug 73:155
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935
Wave-Induced Pressures in Beds of Sand, John F. A. Sleath, HY2:Feb 70:367:7057
Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, Joseph M. Colonell, Stewart C. Farrell and Victor Goldsmith, HYB:Aug 73:131
Wave Transformation in an Open Channel Transition, Efstathios L. Bourodimos and Arthur T. Ippen, HY5:Sept 68:1317:6128
Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9:Sept 72:1515:9187
Where Is Urban Hydrology Practice Today?, D. Earl Jones, Jr., HY2:Feb 71:257:7917
Wind-Induced Circulation in Shallow Water, Henry Liu and Himerio J. Perez, HY7:July 71:923:8235
Wind Shear-Turbulence and Reaeration Coefficient, Aziz F. Eloubaidy and Erich J. Plate, HY1:Jan 72:153:8651
Winter-Regime Thermal Response of Heated Streams, Poothrikka P. Paily, Enzo O. Macagno and John F. Kennedy, HY4:Apr 74:531:10479
Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359
Work-Energy Equation for the Streamline, Hunter Rouse, HY5:May 70:1179:7300
136, Michael C. Quick, HY7:July 70:1403:7399

Hydraulic Structures

Crest Losses for Two-Way Drop Inlet, George G. Hebaus, HY3:May 69:919:6570
Outlet Transitions with Triangular-Shaped Baffles, Lloyd H. Austin, Gaylord V. Skogerboe and Ray S. Bennett, IR3:Sept 71:433:8366
Research Topics for Small Irrigation Structures, Gaylord V. Skogerboe, Wynn R. Walker, Brent B. Hacking and Lloyd H. Austin, IR3:Sept 70:309:7542
Triangular Broad-Crested Weir, Clifford D. Smith and Wen S. Liang, IR4:Dec 69:493:6954

Hydraulic Test Units

Developing Region in Self-Aerated Flows, Robert J. Keller, K. K. Lai and Ian R. Wood, HY4:Apr 74:553:10501
Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193

Hydraulic Transients

Some Factors Affecting Control of Flow in a Large Canal System, Johannes J. DeVries and Jaime Amorocho, IR73:Aug 73:329
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405:10169

Hydraulic Turbines

Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, Donald C. Raney and Terry G. Arnold, PO1:May 73:139:9707
Grand Coulee 3rd Powerplant — Units 22, 23 and 24, James F. Meyers, EPCE:Aug 74:413
Rehabilitation of Wilson Dam Generating Units, William F. Willis and J. E. Kirkland, PO2:Oct 69:321:6861

Hydraulic Valves

Reducing Cavitation in Valves, J. Paul Tullis and Morris M. Skinner, HY6:Nov 68:1475:6255

Hydrocyclones

Feasibility of Hydrocyclones for Dredge Spoil, William G. Tiederman and Michael M. Reischman, WW4:Nov 74:361:10953

Hydrodynamic Pressure

The Added Mass of a Ship in Longitudinal Oscillation, Jean Sommet, BMS:71:174

Earthquake Hydrodynamic Forces on Arch Dams, Parambakatoor R. Perumalswami and Lakshmidhar Kar, EM5:Oct 73:965:10060

Hydrodynamic Force Coefficients for Oscillatory Flow, George Morgan, WAVES:Sept 74:879

Hydrodynamic Pressures in Stratified Reservoir, Gunaratnam Balachandran, Tharakkal E. Unny and David S. Weaver, TN: EM4:Aug 73:912:9898

The Mechanics of Impact and Evaluation of the Hydrodynamic Mass, Brendan F. Saurin, BMS:71:192

Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923

Hydrodynamics

Accelerometer-Monitored Coring, William L. Preslan, CEO-II:70:655

Analysis of Vibration of Hollow-Cone Valves, Chung-su Wang, EM6:Dec 73:1147:10215

Artificial Beach Nourishment on the German North Sea Coast, Johann Kramer, CE13:72:II-1465

Computation of Open-Channel Surges and Shocks, George Terzidis and Theodor S. Strelkoff, HY12: Dec 70:2581:7780

Containing Oil Slicks in Flows of Finite Depth, David L. Wilkinson, CE13:72:III-2567

Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72: 1817:9127

Dynamic Response Of Submerged Sphere, Herman Bomze, CEO-II:70:511

Eddy Formation Behind Circular Cylinders, Alan D. K. Laird, HY6:June 71:763:8170

Effect on Waterway Depth and Alignments, Casimir J. Kray, WW2:May 70:497:7305

Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465

Fluid Force Analysis and Accelerating Sphere Tests, Wallis S. Hamilton and James E. Lindell, HY6:June 71:805:8195

Fluid Force on Accelerating Bodies, Wallis S. Hamilton, CE13:72:III-1767

Formulation of Mathematical Watershed-Flow Model, Cheng-lung Chen and Ven Te Chow, EM3: June 71:809:8199

Free-Surface Ideal Fluid Flows by Finite Element, Stevens T.K. Chan, Bruce E. Larock and Leonard R. Herrmann, HY6:June 73:959:9787

Ground Water Recharge Design for Renovating Waste Water, Herman Bouwer, SA1:Feb 70:59: 7096

High-Speed Train Simulation Using Hydrodynamics, Robert A. Helfinstine and Charles Dalton, EM2: Apr 72:357:8804

Hydrodynamic Analysis of Sludge Dumped in Coastal Waters, Billy L. Edge, CE13:72:III-2187

Hydrodynamic Force Coefficients for Oscillatory Flow, George Morgan, WAVES:Sept 74:879

Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172

Hydrodynamics of Surface Irrigation - Advance Phase, John G. Sakkas and Theodor S. Strelkoff, IR1:Mar 74:31:10422

Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563

Interaction of Waves with Submerged Objects, C. J. Garrison and V. Seetharama Rao, WW2:May 71: 259:8111

Inverse Solution to Three-Dimensional Flows, Roland W. Jeppson, EM4:Aug 72:789:9110

Irrotational Flow with Irregular Boundary Shapes, Albert G. Mercer, HY8:Aug 73:1209:9937

Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711

Mean and Turbulent Velocities for Plane Jet, Walter C. Mih and John A. Hoopes, HY7:July 72:1275: 9050

Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713

The Mechanics of Impact and Evaluation of the Hydrodynamic Mass Analytic Study of the Problem of Berthing, Fernando Vasco Costa, BMS:71:157

Natural Cleaning of Oil Polluted Seashores, Georges Drapeau, CE13:72:III-2547

The Nile Delta Coastal Protection Project, Ismail E. Mobarek, CE13:72:II-1409

Numerical Model for Wave Pressure Distributions, J. Richard Weggel and W. Hall C. Maxwell, WW3: Aug 70:623:7467

Plane Jet on Sloping Floors Under Finite Submergence, Valupadas Mura Hari, HY9:Sept 73: 1449:10027

Prediction of Wind Wave Heights, Henry T. Falvey, WW1:Feb 74:1:10324

Reproduction of Physical Processes in Coastal Areas, Hans-Gerhard Ramming, CE13:72:III-2197

Rip-Currents, Edward K. Noda, CE13:72:I-653

Sediment Dispersion in Flow with Moving Boundaries, Cheng-lung Chen, HY8:Aug 71:1181: 8287

Seepage from Trapezoidal Channels, Satya P. Garg and Amrik S. Chawla, HY6:June 70:1261:7335

Seepage into a Sheet Pile Cofferdam, B. S. Rama Rao and J. Visweswara Rao, HY9:Sept 73:1515:10001

Simulation of Piers in Hydraulic Models, David J. Ball, WW1:Feb 74:23:10313

Solution for Gravity Flow Under a Sluice Gate, Delmar D. Fangmeier and Theodor S. Strelkoff, EM1:Feb 68:153:5797

Stochastic Hydrodynamics of Sediment Transport, Chao-Lin Chiu and Kuang-Chen Chen, EM5:Oct 69:1215:6858

Surge in the Southeast Basin, Long Beach Harbor, Calif., Basil W. Wilson, James A. Hendrickson and Yuan Jen, CE13:72:III-2617

Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73: 17:9540

Transmission Lines Probe a New Frontier, The Ocean, Ian Watson, Joseph A. Fischer and Lawrence A. Salomone, EPCE:Aug 74:557

Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87

Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72: 1187:9061

Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999

Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098

Winter-Regime Thermal Response of Heated Streams, Poothrikka P. Paily, Enzo O. Macagno and John F. Kennedy, HY4:Apr 74:531:10479

Hydroelasticity

Flow-Induced Vibration of Vertical-Lift Gate, J. David Hardwick, HY5:May 74:631:10546

Inadequacies of Piston Theory in Fluid-Shell Interactions, Jerome M. Klosner, EM2:Apr 70:143: 7237

Hydroelectric Power

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827: 9304

A Preliminary Study of Storm Surges in Hudson Bay, K. B. Yuen and T. S. Murty, CE13:72:I-215

Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297

Hydroelectric Power Generation

Additions To Chief Joseph Dam Power Project, A. Lee Warbington, PO2:Mar 71:493:7970
Advantages Of Inclined-Axis Hydroelectric Units, V. Shannon and Charles H. Fogg, PO2:Mar 71:395:7948
Alternative Water Resource Systems in the Lower Mekong, Kanchit Chaemsaithong, Lucien Duckstein and Chester C. Kisiel, HY3:Mar 74:461:10430
Antilon Lake Pumped Storage Project, James V. Williamson, EPCE:Aug 74:439
At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73:72
Bad Creek Pumped Storage Project, James G. Hester and Robert F. Edmonds, EPCE:Aug 74:241
Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826
Churchill Falls Power Facilities, D. Wermenlinger, J. G.S. Thompson and J. M. Gardiner, PO2:Mar 71:515:7974
Coordinated Operation of Central Valley and State Water Projects, Welby R. Madsen and David G. Coleman, HY10:Oct 74:1399:10887
Design of Carters Pumped Storage Project, Walter W. Burdin, PO3:June 70:383:7353
Development of Wells Hydroelectric Project, James G. Patrick, PO2:Mar 71:267:7967
Discharge Facilities at Hells Canyon Dam, J. T. Gilchrist and D. E. Barclay, PO2:Nov 68:161:6230
Diversion at Portage Mountain Project, Harold K. Pratt, PO3:June 70:349:7346
Economic Planning for Staged Development, Kenneth E. Sorensen and Robert D. Jackson, HY5:Sept 68:1231:6114
Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1:May 73:205:9738
The Future of Pumped Storage Generation in the Nuclear Power Age, Kenneth E. Sorensen, CE:Mar 69:66
Hydraulic Design of Unlined Rock Tunnels, Carl J. Huval, HY4:July 69:1235:6679
Hydroelectric Power Plant Trashrack Design, Lloyd E. Sell, PO1:Jan 71:115:7819
Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3:July 72:373:9029
The Lower Mekong Development Program, Leon W. Damours, CE:July 70:58
Ludington, Mich., Pumped Storage Project, Carl F. Whitehead, CE:June 73:64
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696
Managing Multiriver System—Past, Present, and Future, R. Gene Pollan, HY10:Oct 74:1429:10873
Modernization of Dams on Salt River, J. George Thon, John W. O'Hara and Clarence H. Whalin, PO1:Jan 70:157:7039
Northfield Mountain Pumped Storage Project, Ralph W. Gunwaldsen and Antonio Ferreira, CE:May 71:53
Optimal Development of Multipurpose Hydro Projects, Phillip R. Hoffman, PO1:July 74:43:10655
Optimal Policy for Reservoir Operation, Ricardo C. Harboe, Fereidoun Mobasheri and William Wen-Gong Yeh, HY11:Nov 70:2297:7673
Optimizing of Canal Flow in All Seasons, E. L. Hamilton, OIDS:72:521
Owner's Comments, Edward J. Drobnack, IMROD:Sept 73:523
Penstocks For Six Pumped Storage Projects, J. Edgar Revelle and Robert W. Mikitka, PO2:Mar 71:435:7947
Positive Points on Electric Power, George R. Higgins, PP1:Jan 72:65:8666
Power and Energy Study of Hydroelectric Plants, Peri Z. Valvis and Miltos Th. Mathioudis, PO2:Mar 71:567:8003
Power Generation Under IJC Regulation, George T. Berry, PO2:Nov 68:217:6257
Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65:8984
Proposed Third Power Plant at Grand Coulee Dam, Harold G. Arthur, PO1:Mar 67:15:5148
Rectangular-Bar Trashrack and Baffle Headlosses, John F. Orsborn, PO2:Nov 68:111:6223
Rehabilitation of Wilson Dam Generating Units, William F. Willis and J. E. Kirkland, PO2:Oct 69:321:6861
Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254
Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305:10145
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405:10169
Structural Design of Angeles Tunnel Surge Chamber, Rossiter L. White, PO1:July 74:71:10644
Surge Studies for Portage Mountain Tailrace System, Kenneth C. Wilson, PO1:Mar 69:1:6432
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
Timing and Sizing of Complex Water Resource Systems, Leonard Becker and William Wen-Gong Yeh, HY10:Oct 74:1457:10883
Use of Remote Controlled Spraying Nozzle, Claes Alberts, SUSS:July 73:65
Use of Shotcrete for Tunnelling in Difficult Grounds, Pericle Quadrio Curzio, Glauco Barazzoni, Fiorenzo Nobili and Alessio Anselmi, SUSS:July 73:79
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72:333:9259

Hydroelectric Powerplants

Design of Rock Caverns for Hydraulic Projects, Mircea S. Vasilescu, C. P. Benziger and Robert W. Kwiatkowski, URC:72:21
Engineering Geologist's Responsibilities in Dam Foundation Studies, Don U. Deere, EFFD:Mar 74:417
Jose Ma de Oriol Dam, Manuel Castillo, EFFD:Mar 74:167
Manicouagan 3 Cut-Off, Yves Pigeon, EFFD:Mar 74:289
Mattmark — A Dam Founded on Alluvial and Morainic Deposits, Bernhard E. Gilg, EFFD:Mar 74:215
Oroville Dam and Edward Hyatt Powerplant, William R. Gianelli, CE:June 69:68
Pumped Storage: State-of-the-Art, Richard S. Woodruff, Chmn., PO3:July 71:675:8262
Stone Asphalt Cores Waterproof French Dams, Victorien Lelu, CE:Apr 72:70
Structural Design of Angeles Tunnel Surge Chamber, Rossiter L. White, PO1:July 74:71:10644
Supervision of Dams at the Swedish State Power Board, Karl Arthur Scherman and S. Nylander, IMROD:Sept 73:157
Underwater Inspection by Submarine, Edward J. Drobnack, IMROD:Sept 73:459

Hydrofoils

Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2:Feb 73:259:9542

Hydrogeochemistry

Carbon-14 Ages Related to Occurrence of Salt Water, William Back, Bruce B. Hanshaw and Meyer Rubin, HY11:Nov 70:2325:7702

Hydrogeology

Geohydrologic Aspects of Cross-Florida Barge Canal, Glen L. Faulkner, SEA:70:307

Hydrograph Analysis

Subsurface Hydrograph Analysis by Convolution, Willard M. Snyder and Loris E. Asmussen, IR3: Sept 72:405:9213

Surface Runoff Hydrograph Equation, Vulli L. Gupta and Syed A. Moin, HY10:Oct 74:1353:10880

Hydrographic Charts

Chart Compilation-Field and Office, William J. Monteith, SU2:Sept 70:157:7522

Reverse and Direct Reservoir Routing Method Sets Highway Grade, Constantine Voutyras, CE:Oct 69: 56

Runoff Grouping for Detection of Change in Runoff, Hiroshi Nakamichi and Hubert J. Morel-Seytoux, IR2:June 71:275:8201

Hydrographic Surveys

Beach Nourishment at Virginia Beach, Virginia, James W. Bunch, 12CEC:71:967

The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979

Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Vito A. Vanoni, Chmn., HY12: Dec 70:2417:7781

Effect of Long Period Waves on Hydrographic Surveys, Orville T. Magoon and William O. Sarlin, 12CEC:71:2251

Hydrographic Surveys Offshore—Error Sources, Ralph H. Cross, III, SU2:Nov 74:83:10908

Hydrographic Survey Techniques on Mississippi, Otis T. Welch, SU1:May 71:109:8123

Hydrography and the Engineer, Colin G. McQ. Weeks, SU1:Sept 73:1:9981

An Offshore Beach Nourishment Scheme, Robert A. Dalrymple, 12CEC:71:955

Hydrographs

Analysis of Hurricane Tides at Padre Island, Texas, Frank D. Masch, Robert J. Brandes, Floyd R. Hill and William A. White, 12CEC:71:2031

Effect of Urbanization on Storm Water Peak Flows, Pedro C.C. DaCosta, SA2:Apr 70:187:7198

Reduction of Urban Runoff Peak Flows by Ponding, Leonard Rice, IR3:Sept 71:469:8351

Routing Storm Water Through a Drainage System, Subin Pinkayan, HY1:Jan 72:123:8642

Run Hydrographs from Poisson Generated Run Lengths, Lourens A.V. Hiemstra, HY11:Nov 74: 1617:10959

Simple Nonlinear Model for Flood Estimation, Russell G. Mein, Eric M. Laurenson and Thomas A. McMahon, HY11:Nov 74:1507:10933

Surface Runoff Hydrograph Equation, Vulli L. Gupta and Syed A. Moin, HY10:Oct 74:1353:10880

University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298

Hydrography

Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216

Computer Simulation Of Urban Storm Water Runoff, Carl W. Chen and Robert P. Shubinski, HY2:Feb 71:289:7924

Design Criteria for Single-Point Mooring Terminals, J. M. Langeveld, WW4:Nov 74:305:10931

Dispersion and Flushing of Pollutants in Extuaries, Donald W. Pritchard, HY1:Jan 69:115:6344

Dr. Santorio's Water Current Meter, Circa 1610, Arthur H. Frazier, HY1:Jan 69:249:6351

Hydrographic Surveys Offshore—Error Sources, Ralph H. Cross, III, SU2:Nov 74:83:10908

Investigation of Brahmaputra River, Abdul Latif, HY5:Sept 69:1687:6793

Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35

Robert Hooke's Water Current Meter, Circa 1663, Arthur H. Frazier, HY1:Jan 69:439:6369

Runoff Hydrographs for a Mathematical Watershed Model, Roger E. Machmeir, HY6:Nov 68:7453: 6248

Seafloor Surveying by Divers, John B. Ciani, E. Kent Hunter, George B. Dowling and David M. Bunk, SU2:Nov 71:149:8496

Unit-Response Method of Open-Channel Flow Routing, Vernon B. Sauer, HY1:Jan 73:179:9499

Water Features on Topographic Maps, Morris M. Thompson, SU1:July 72:1:9018

Hydrologic Models

Evaluation of Effects of Land-Use Changes on Streamflow, David R. Dawdy and James M. Bergmann, IR73:Aug 73:619

Flood Inflation, Donald L. Milliken, IMROD:Sept 73:399

National Weather Service River Forecasting System, John C. Monro and Eric A. Anderson, HY5:May 74:621:10549

Hydrologic Properties

Hydrologic Evaluations in Bridge Pier Scour Design, Peter C. Klingeman, HY12:Dec 73:2175:10224

Hydrology

Analysis of Ephemeral Flow in Aridlands, Chester C. Kisiel, Lucien Duckstein and Martin M. Fogel, HY10:Oct 71:1699:8455

Analytically Derived Unit Graph and Runoff, Roger P. Betson and Ralph F. Green, HY6:Nov 68:1489: 6256

Autocorrelation and Spectral Analysis in Hydrology, George Quimpo, HY2:Mar 68:363:5837

Beginning of Quantitative Hydrology, Asit K. Biswas, HY5:Sept 68:1299:6123

Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766

Border Irrigation Advance and Ephemeral Flood Waves, Roger E. Smith, IR2:June 72:289:8979

Channel Slope Effect on Peak Discharge of Natural Streams, Charles L. Armentrout and Robert B. Bissell, HY2:Feb 70:307:7052

Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216

Control of Natural Chloride, Arkansas-Red Rivers, Myron W. DeGeer and Robert J. Hensley, WW4: Nov 71:631:8494

Conversion of Maximum Rainfalls to Floods (Bureau of Reclamation Techniques), Frederick A. Bertle, IMROD:Sept 73:302

Daily Streamflow Simulation, Kip Payne, W. R. Neuman and Kenneth D. Kerri, HY4:July 69:1163: 6665

Decision Criteria for Using Stochastic Hydrology, George K. Young, Jr., Gerald T. Orlob and Larry A. Roesner, HY4:Apr 70:911:7209

Design Hydrographs for Pennsylvania Watersheds, John E. McSparran, HY4:July 68:937:6036

Design Sensitivity of Pollution Control Reservoirs, George K. Young, Jr., R. W. Schrecongost and W. N. Fitch, SA5:Oct 68:829:6147

Desktop Computer Flow Routing, Thomas N. Keefer, HY7:July 74:1047:10669

Double-Mass Analysis on the Computer, Rameshwar Singh, HY1:Jan 68:139:5729

Economic Measure of Effect of Extreme Data, Myron B. Fiering, SA4:Aug 69:683:6720

Effect of Snow Cover on Upward Movement of Soil Moisture, Eugene L. Peck, IR4:Dec 74:405:10989

Elevation Dependent Model for Estimating Annual Runoff, Verne E. Smith, Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245

An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255

Evaluation of Segmented IUH From Derivatives, Mordechai H. Diskin, HY1:Jan 69:329:6359

Factors Affecting Floods from Small amd Large Watersheds, Yoseph Bar-Kochba and Andrew L. Simon, IRS:Sept 72:87

Fitting Methods for Conceptual Catchment Models, Richard P. Ibbitt and Terence O'Donnell, HY9:Sept 71:1331:8370

Flood Frequency Estimating Techniques for Small Watersheds, George Fleming and Delbert D. Franz, HY9:Sept 71:1441:8383

Flood Inflation, Donald L. Milliken, IMROD:Sept 73:399

Fluorometer Calibration Curves and Nomographs, Thomas A. Butts, SA4:Aug 69:705:6728

General Hydrologic System Model, Ven Te Chow and V. C. Kulandaiswamy, HY6:June 71:791:8176

Generalized Rainfall-Duration-Frequency Relationships, Frederick C. Bell, HY1:Jan 69:311:6357

Geohydrologic Aspects of Cross-Florida Barge Canal, Glen L. Faulkner, SEA:70:307

Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72, 216pp.

Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215

Hydrograph Synthesis by Digital Computer, Michael D. Hudlow and Robert A. Clark, HY3:May 69:839:6555

Hydrologic Consequences of Rainfall Augmentation, Alan M. Lumb and Ray K. Linsley, HY7:July 71:1065:8232

Hydrologic Simulation Procedures As Applied To Vegetation Management, George Fleming, SEA:70:269

Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, HY11:Nov 71:1835:8523

Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, IAWM:72:165

Hydrology and Geology of Honolulu Aquifer, David K. Todd and Charles F. Meyer, HY2:Feb 71:233:7910

The Hydrology and Stability of Cutover Slopes, Donald H. Gray and R. Peter Brenner, IAWM:72:295

Hydrology of Spray-Runoff Wastewater Treatment, Richard E. Thomas, James P. Lae, Jr. and Curtis C. Harlin, IR3:Sept 70:289:7538

Hydrology of 7-Day 10-Year Low Flows, Krishan P. Singh and John B. Stall, HY12:Dec 74:1753:11013

Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205

Independent Comparison of Three Urban Runoff Models, David P. Heeps and Russell G. Mein, HY7:July 74:995:10685

Infiltration and Antecedent Precipitation, Constantine N. Papadakis and Herbert C. Preul, HY8:Aug 73:1235:9940

Infiltration Equation in Exponential Forms, Yu-Si Fok, IR4:Dec 67:125:5686

Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615

In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62

Interior Drainage Design for Hurricane Protection Projects, Donald Van Sickle, HY2:Mar 68:455:5858

Irrigation Storage Probabilities of Small Reservoir, Larry A. Kramer, IR4:Dec 74:485:10987

Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275

Laboratory Experiments with Surface Runoff, Ivan Muzik, HY4:Apr 74:501:10463

Land Capability Classes As Hydrologic Response Units in Watersheds, Charles B. England, IAWM:72:53

Link Between Stochastic and Parametric Hydrology, Rafael G. Quimpo, HY3:Mar 73:461:9602

Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002

Low-Flow Criteria for Stream Standards, William C. Ray and William R. Walker, SA3:June 68:507:6005

Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451

Mission of U.S. Lake Survey, James E. Bunch, SU2:Sept 70:181:7527

Multiple Linearization Flow Routing Model, Thomas N. Keefer and Raul S. McQuivey, HY7:July 74:1031:10668

Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192

New Approach to Hydrologic Data Acquisition, Edward J. Langham, HY12:Dec 71:1965:8578

One-Dimensional Infiltration into Layered Soils, Yu-Si Fok, IR2:June 70:121:7343

Opportunities for Watershed Management in Wyoming, Paul A. Rechard, IR73:Aug 73:423

Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088

Plotting Positions for Hydrologic Frequencies, John R. Stipp and George K. Young, Jr., TN: HY1:Jan 71:219:7824

Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73:383

Present Day Evaporation Measurement Techniques, G. Earl Harbeck, Jr. and J. Stuart Meyers, HY7:July 70:1381:7388

Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785

Propagation of Flood Waves in Open Channels, Bahram Mozayeny and Charles C.S. Song, HY3:May 69:877:6561

Rapid Creek Watershed, Donald A. Thorson, HYB:Aug 73:449

Refraction Computations for Practical Applications, Ove Skovgaard and Jens Aage Bertelsen, WAVES:Sept 74:761

Research on Sleepers River at Danville, Vermont, Martin L. Johnson, IR1:Mar 70:67:7184

Risks in Hydrologic Design of Engineering Projects, Ben Chie Yen, HY4:Apr 70:959:7229

River Metamorphosis, Stanley A. Schumm, HY1:Jan 69:255:6352

Role of Bedrock in Watershed Management, Walter F. Megahan, IR73:Aug 73:449

Runoff Forecasts by Linear Predictive Filter, Mikio Hino, HY3:Mar 70:681:7146

Runoff Hydrographs for a Mathematical Watershed Model, Roger E. Machmeir, HY6:Nov 68:7453:6248

Runoff Routing Through Steep Natural Channels, Rolf Kellerhals, HY11:Nov 70:2201:7666

Safety Appraisal of Old Dams: An Updated Perspective, Gurmukh S. Sarkaria, IMROD:Sept 73:405

Safety of Dams -- Hydrologic and Hydraulic Aspects, Vernon K. Hagen, IMROD:Sept 73:337

Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12:Dec 72:2087:9426

Simulation Model for Flow Augmentation Costs, Armando I. Perez, John C. Schaake, Jr. and Edwin E. Pyatt, HY1:Jan 70:131:7026

Some Factors Influencing Required Reservoir Storage, Stephen J. Burges and Ray K. Linsley, HY7:July 71:977:8227

Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169

Some Procedures for Determining Extreme Precipitation Criteria, John T. Riedel, IMROD:Sept 73:284

South Florida Training Runway and Everglades National Park, H. C. Lamberton, Jr., CE:Apr 70:53

Stochastic Analysis of Periodic Hydrologic Process, Rezaul Karim Bhuiya, HY7:July 71:949:8242

Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72:1935:9353

Subcritical Kinematic Flow in a Stable Stream, William J. Gburek and Donald E. Overton, HY9:Sept 73:1433:10026

Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598

Summaries of Sessions, William N. Holway, IMROD:Sept 73:273

Surface Runoff Hydrograph Equation, Vulli L. Gupta and Syed A. Moin, HY10:Oct 74:1353:10880

A System for Regulation of Combined Sewage Flows, Charles V. Gibbs, Stuart M. Alexander and Curtis P. Leiser, SA6:Dec 72:951:9402
Testing Methods for Determination of Urban Runoff, Constantine N. Papadakis and Herbert C. Preul, HY9:Sept 73:1319:9987
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611
University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
Unsteady Free-Surface Flow Computations, E. Benjamin Wylie, HY11:Nov 70:2241:7683
Urban Flood Frequency Characteristics, William H. Espey, Jr. and David E. Winslow, HY2:Feb 74:279:10352
Urban Runoff by Linearized Subhydrographic Method, Jong-Song Chien and Krishan K. Saigal, HY8:Aug 74:1141:10766
Urban Runoff by Road Research Laboratory Method, Michael L. Terstriep and John B. Stall, HY6:Nov 69:1809:6878
Using Experimental Models to Guide Data Gathering, Charles F. Meyer, HY10:Oct 71:1681:8449
Water Features on Topographic Maps, Morris M. Thompson, SU1:July 72:1:9018
Water-Quality Management in Irrigation Systems, Gerald T. Orlob and Philip C. Woods, IR2:June 67:49:5280
Water Resources Management In South Florida, Charles L. Nowlin, SEA:70:27
Watershed Behavior After Forest Fire in Washington, J. D. Helvey, IR73:Aug 73:403
Wave Refraction and Littoral Transport Computation, Theodor R. Mogel and Robert L. Street, WAVES:Sept 74:790

Hydrolysis
Hydrolysis of Lipids in Wastewater, Gary R. Kramer, SA5:Oct 71:731:8418

Hydromechanics
Computer Model of Vortex Shedding From a Cylinder, John R. Chaplin, HY1:Jan 73:155:9491
Gravity-Affected Flow from Planar Sluice Gatel, Bruce E. Larock, HY4:July 69:1211:6674
Hydraulic Engineering and the Environment, William A. Hunt, Chmn., HYB:74, 466pp.
A Numerical Model for the Hydrodynamics of Lagoons, Jacobus van de Kreeke, CE13:72:III-2241
Numerical Modeling Of Hydromechanics Of Bay Systems, Akhileshwar P. Verma and Robert G. Dean, CEO-II:70:1069
One-Dimensional Equation of Open-Channel Flow, Theodor S. Strelkoff, HY3:May 69:861:6557
Pressure Upon Vertical Wall from Standing Waves, V. K. Shtencel, CE13:72:III-1649

Hydrometeorology
Colorado Pilot Project: Design Hydrometeorology, Patrick A. Hurley, HY5:May 72:811:8901
Reevaluating Spillway Adequacy of Existing Dams, Bob J. Buehler, IMROD:Sept 73:320
Some Procedures for Determining Extreme Precipitation Criteria, John T. Riedel, IMROD:Sept 73:284

Hydrophones
Engineering Aspects Of A Movable Surveillance System, Richard C. Swenson, CEO-II:70:385

Hydrostatic Pressure
Pressure-Stabilized Drop-Shaped Tanks, John W. Leonard, TN: EM10:Oct 73:1110:10041

Hydrostatic Tests
Cylindrical Concrete Hulls Under Hydrostatic Loading, Harvey H. Haynes, Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963

Hyetographs
Urban Runoff by Linearized Subhydrographic Method, Jong-Song Chien and Krishan K. Saigal, HY8:Aug 74:1141:10766

Hyperbaric Medicine
Material Safety Requirements of Hyperbaric Facilities, William J. Bobisch and Michael Yachnis, ST7:July 72:1465:9019

Hyperbaric Oxygenation
Material Safety Requirements of Hyperbaric Facilities, William J. Bobisch and Michael Yachnis, ST7:July 72:1465:9019

Hyperbolas
Minimum Weight Design of Hyperbolic Cooling Towers, Phillip L. Gould, ST2:Feb 69:203:6395

Hyperbolic Parabolic Shells
Analysis and Design of Hyperbolic Cooling Towers, Ajaya K. Gupta and Adolf Walser, EPCE:Aug 74:307
Analysis of Hipped Roof Hyperbolic Paraboloid Structures, William C. Schnobrich, ST7:July 72:1575:9052
Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11:Nov 72:2605:9356
Buckling Of Orthotropic Hyberbolic Paraboloid Shells, Peter Gergely, TN: ST1:Jan 72:395:8619
Cooling Towers Supported on Columns, Salman H. Abu-Sitta, ST12:Dec 70:2575:7753
Differential Settlement of Hyperbolic Cooling Towers, Phillip L. Gould, ST10:Oct 72:2207:9252
Dynamic Wind Stresses in Hyperbolic Cooling Towers, Salman H. Abu-Sitta and Mahmoud G. Hashish, ST9:Sept 73:1823:9989
Earthquake Design of Cooling Towers, Salman H. Abu-Sitta and Alan G. Davenport, ST9:Sept 70:1889:7524
Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236
Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730
Finite Element Analysis Of Hyperbolic Paraboloid Shells, Semih S. Tezcan, Krishna M. Agrawal and George Kostro, EC5:70:675
Finite Element Analysis of Hyperbolic Paraboloid Shells, Semih S. Tezcan, Krishna M. Agrawal and George Kostro, ST1:Jan 71:407:7847
Free Vibration of Hyperbolic Cooling Towers, Mahmoud G. Hashish and Salman H. Abu-Sitta, EM2:Apr 71:253:8037
Hangar Features Stressed-Skin Hypars, Charles H. Thornton and Richard L. Tomasetti, CE:Nov 70:54
Hyberboloidal Shells on Discrete Supports, Subir K. Sen and Phillip L. Gould, TN: ST3:Mar 73:595:9629
Hyperbolic Paraboloid Structures on Four Supports, Roy R. Russell and Kurt H. Gerstle, ST4:Apr 68:995:5902
Hyperboloids of Revolution Supported on Columns, Phillip L. Gould and Seng-Lip Lee, EM5:Oct 69:1083:6820
Record Concrete Shell Roof Featured in Coliseum, Yue-Chyou Yang, CE:June 72:51
Response of Hyperbolic Cooling Towers to Turbulent Wind, Mahmoud G. Hashish and Salman H. Abu-Sitta, ST5:May 74:1037:10542
Study of Suspended Roof Model, Prem Krishna and Tej P. Agarwal, ST6:June 71:1671:8168
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70

Hypolimnion
Cooling Water Studies at Electric Power Station, R. Fred Gray and J. Ben Stephenson, PO2:Oct 69:293:6853

Hysteresis

Analysis of Infiltration into Draining Porous Media, Frank D. Whisler and Keith K. Watson, IR4:Dec 69:481:6946

Dynamic Moduli and Damping Ratios For Soft Clay, William D. Kovacs, H. Bolton Seed and Clarence K. Chan, SM1:Jan 71:59:7813

Earthquake Response of a Ramberg-Osgood Structure, Movses J. Kaldjian and William R.S. Fan, ST10:Oct 68:2451:6196

Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725

Equivalent Viscous Damping for Yielding Structures, Paul C. Jennings, EM1:Feb 68:103:5793

I Beams

Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903

Effect of Major Axis Curvature on I-Beam Stability, Nicholas S. Trahair and Scott T. Woolcock, EM1: Feb 73:85:9548

Elastic Lateral Buckling of Stepped I-Beams, Nicholas S. Trahair and Sritawat Kitipornchai, ST10:Oct 71:2535:8445

Elastic Stability of Tapered I-Beams, Sritawat Kitipornchai and Nicholas S. Trahair, ST3:Mar 72: 713:8775

Inelastic Buckling of Monosymmetric I-Beams, David A. Nethercot, TN: ST7:July 73:1696:9828

Model I-Shaped Beams under Alternating Deflections, Settiana G. Krishnasamy and Archibald N. Sherbourne, TN: ST3:Mar 71:1015: 7946

Oregon Gets a Segmental Post-Tensioned Bridge, L. F. Pierce, CE:Mar 72:67

Warping and Distortion at I-Section Joints, Porpan Vacharajittiphan and Nicholas S. Trahair, ST3:Mar 74:547:10390

Ice

All-Weather Tanker Terminal for Cook Inlet, Alaska, William S. Gaither and Robert E. Dalton, WW2: May 69:131:6549

Control for Antarctic Ice Cap Reconnaissance, James L. Clapp, SU1:Jan 68:1:5716

Field Tests of Ice Jam Prevention Techniques, Julius H. Moor and Carl H. Watson, HY6:June 71:777: 8179

Ice Effects on Coastal Structures, H. R. Kivisild and G. D. Ransford, CE13:72:III-1801

Impact of Spheres on Ice, Yin-Chao Yen, Fuat Odar and Lynwood R. Bracy, EM5:Oct 70:641:7607

Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47

Pile Tips and Barbs Prevent Ice Uplift, James E. Muschell, CE:June 70:41

Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114

Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603: 9191

River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1: Jan 74:1:10281

Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090

Stability of Floating Ice Blocks, Mehmet S. Uzuner and John F. Kennedy, HY12:Dec 72:2117:9418

Successful Ice Dusting at Fairbanks, Alaska, 1966, R. Gordan Cook and Mason D. Wade, Jr., HY1:Jan 68:31:5717

Tellurometer Ground Swing Over Ice Surface, Thomas A. Asbeck and James L. Clapp, SU1:May 71:53:8149

Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475

Water Pollution and Associated Effects from Street Salting, Richard Field, Edmund J. Struzeski, Jr., Hugh E. Masters and Anthony N. Tafuri, EE2:Apr 74:459:10473

Ice Breakup

Control of Ice Jams at Barrett Chute G.S., David R. Townsend, PO3:July 71:597:8244

Ice Control

Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114

Ice Cover

Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498

Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841

Ice Formation

Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498

Ice Jams

Control of Ice Jams at Barrett Chute G.S., David R. Townsend, PO3:July 71:597:8244

Stability of Floating Ice Blocks, Mehmet S. Uzuner and John F. Kennedy, HY12:Dec 72:2117:9418

Ice Lenses

Frost Heaving of Piles in Permafrost, James Allen and Robert W. Huck, CE:Apr 72:77

Ice Loads

Ice Effects on Coastal Structures, H. R. Kivisild and G. D. Ransford, CE13:72:III-1801

Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242

Ice Pressure

Ice Effects on Coastal Structures, H. R. Kivisild and G. D. Ransford, CE13:72:III-1801

The Pressure of Floating Ice-fields on Piles, Joachim Schwarz, 12CEC:71:1523

Ice Prevention

Winter-Regime Thermal Response of Heated Streams, Poothrikka P. Paily, Enzo O. Macagno and John F. Kennedy, HY4:Apr 74:531:10479

Ice-Water Interfaces

Effect of Seepage Stream on Artificial Soil Freezing, Hadi T. Hashemi and Cedomir M. Sliepcevich, SM3:Mar 73:267:9630

Idaho

Experience and Problems with Dams in Idaho, A. Kenneth Dunn, IMROD:Sept 73:100

Irrigation Scheduling on the Minidoka Project, Idaho, Jerry F. Buchheim, OIDS:72:539

Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2: June 72:193:8940

Rock Property Correlation, Crescent Mine, Idaho -- Abstract, E. H. Skinner, G. G. Waddell, P. C. McWilliams and B. J. Scheibner, RM14:73:754

Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129

Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359

Idle Time

Queueing at Single-Berth Shipping Terminal, Alan J. Miller, WW1:Feb 71:43:7895

Illinois

Engineering at the University of Illinois (Chicago Circle), Ernest F. Masur, CEE:Feb 74:1-127

Goals and Objectives, Elizabeth J. McLean and Martin E. Goldsmith, MTI:May 72:267

Highlights — Foundation Exploration and Design — Locks and Dam No.26 (Replacement), Bruce H. Moore, EFFD:Mar 74:11

Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., IR3:Sept 73:215:9983

Rock Tunnels to Control Pollution and Flooding, Vinton W. Bacon and William T. Painter, URC:72: 115

Illite

Shearing Strength of Kaolinite, Illite, and Montmorillonite, Roy E. Olson, GT11:Nov 74:1215:10947

Images

Computer Mapped Hologram Images in Stress Analysis, John L. Ford and Arthur P. Boresi, EM2:Apr 74:173:10476
Depth to Ground-Water Table by Remote Sensing, Mohamed Abdel-Hady and Harlan H. Karbs, IR3:Sept 71:355:8360
Sequential Photography of Coastal Water, Maynard M. Nichols, CE13:72:II-747

Imbeddings (Mathematics)

Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094

Impact

Avalon Transportation Wharf, James W. Dunham, WW2:May 71:371:8104
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434
Damage to Structures Due to Floor Shocks, Nelson M. Isada, ST2:Feb 71:561:7897
Design Criteria for Fenders and Berthing Structures, Brendan F. Saurin, BMS:71:256
Designing Fail-Safe Structures of Highway Safety, Flory J. Tamanini, TE2:May 71:305:8150
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
Forced Vibration of Class of Nonlinear Dissipative Beams, Sami F. Masri, EM4:Aug 73:669:9959
Full Scale Observation of Berthing Impacts: Their Interpretation, John T. O'Brien, BMS:71:203
Full Scale Observations on Berthing Impacts: Their Interpretation, Brendan F. Saurin, BMS:71:198
Gravity Loads and Temperature Effects, Theme Report, Raymond C. Reese, TB:73:Ib-5-5
Homogeneity Analysis and Planning Studies, Robert E. Paaswell, UP2:Dec 71:125:8561
Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, EM3:June 74:599:10620
Impact from Railway Loading on Steel Girder Spans, William G Byers, ST6:June 70:1093:7341
Impact Loading Of Submersible Hulls, Frederick John Dzialo, CEO-II:70:487
Impact of Spheres on Ice, Yin-Chao Yen, Fuat Odar and Lynwood R. Bracy, EM5:Oct 70:641:7607
Large Area Wave-Load Meter, M. Geleedst and H. H. Hart, WW4:Nov 68:415:6209
Loadings on Large Piers in Waves and Currents, Hsiang Wang, 12CEC:71:1491
Lower Strength Steel Brittle Fracture Assessment, Mohammed H. Magued and D J. Laurie Kennedy, ST5:May 74:983:10551
The Mechanics of Impact and Evaluation of the Hydrodynamic Mass Analytic Study of the Problem of Berthing, Fernando Vasco Costa, BMS:71:157
The Mechanics of Impact and Evaluation of the Hydrodynamic Mass, Brendan F. Saurin, BMS:71:192
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9:Sept 71:1367:8373
Model Investigation of Berthing Impacts, Andre Pierre X. Pages, BMS:71:209
Model Investigation of Berthing Impacts, Robert C. H. Russell, BMS:71:215
Modern Design of Concrete Pavements, Phil Fordyce and W. A. Yrjanson, TE3:Aug 69:407:6726
Numerical Model for Wave Pressure Distributions, J. Richard Weggel and W. Hall C. Maxwell, WW3:Aug 70:623:7467
The Penetration of Objects Into The Ocean Bottom, Werner E. Schmid, CEO-II:70:167
Periodic Excitation of Multiple-Unit Impact Dampers, Sami F. Masri, EM6:Dec 70:1195:7747
Plunging Wave Pressures on Semicylindrical Tube, Yuan Jen and Pang-Mou Lin, WW3:Aug 71:567:8342
Pressure of Waves Against Vertical Walls, M. E. Plakida, 12CEC:71:1451
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73:771:9733
Reexamination of Transportation Planning, Raymond H. Ellis, TE2:May 73:371:9752
References to Literature on Mooring and Berthing of Ships Mainly Published between 1965 and 1970, Basil W. Wilson, BMS:71:288
Response of Rate-Sensitive Frames to Impulsive Loads, Nicholas Perrone, EM1:Feb 71:49:7890
Selection of Design Basis Tornado, M. A. Suarez, SDNPF:Dec 73:597
Selection of Fenders, Fernando Vasco Costa, BMS:71:260
Stability of Columns Subject to Impulsive Loading, Siegfried M. Holzer and Robert A. Eubanks, EM4:Aug 69:897:6734
Transthetics, Harold P. Hulett, PO1:June 72:103:8989
Water Wave Pressure on Horizontal Plate, Hsiang Wang, HY10:Oct 70:1997:7629
Ways to Improve Berthing Operations, Basil W. Wilson, BMS:71:268

Impact Loads

Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
Impact and Dynamic Load Effects, State-of-Art Report 4, Masanori Izumi, TB:73:Ib-5-77

Impact Prediction

Boulder Creek - An Environmental Status Report, Gerard E. Mick, CO1:Mar 74:1:10389
The Engineer and the EIS: Some NEPA Court Decisions, Jack Golden and Thomas R. Mongan, CE:Mar 74:49
Environmental Studies for Rocky Mountain Highway, Austin B. Milhollin, UP1:Mar 74:17:10387
Issues in Water Resources Impact Assessment, Leonard Ortolano, HY1:Jan 74:173:10292
Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080
New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93:8981

Impact Tests

Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Low Velocity Penetration of Kaolin Clay, James D. Murff and Harry M. Coyle, SM5:May 73:375:9737
Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592

Impedance

Impedance Effects On Unsaturated Flow In A Non-Swelling Soil, Hong Yau Wong and Raymond N. Yong, TN: SM8:Aug 72:837:9085

Imperfections

Post-Buckling of Axially Compressed Plates, Archibald N. Sherbourne and Robert M. Korol, ST10:Oct 72:2223:9239

Impervious Linings

Aguada Blanca Rockfill Dam with Metal Facing, Piero Sembenelli and Marco Fagiolo, GT1:Jan 74:31:10270

Impervious Materials

Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075

Impervious Membranes

Aguada Blanca Rockfill Dam with Metal Facing, Piero Sembenelli and Marco Fagiolo, GT1:Jan 74:31:10270

Impervious Soils
Experiments of Wave Reflexion on Impermeable Slopes, Carlos de Campos Moraes, 12CEC:71:509
Model Study of Boundary Effects on Ditch Drainage Division, Eugene W. Rochester, Jr., IR4:Dec 68: 493:6313

Impingement
Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219
Impinging Circular Turbulent Jets, Spyridon Beltaos and Nallamuthu Rajaratnam, HY10:Oct 74:1313: 10852

Impoundments
Chemistry of N and Mn in Cox Hollow Lake, Wis., Following Destratification, Patrick L. Brezonik, Joseph J. Delfino and G. Fred Lee, SA5:Oct 69: 929:6850

Impulses
Bounds for Impulsively Loaded Plastic Structures, John B. Martin and Alan R.S. Ronter, EM1:Feb 72:107:8745
Dynamics of Impulsively Loaded Circular Plates, Robert J. Green, EM2:Apr 71:413:8079
Impulse Waves Generated by Landslides, J. William Kamphuis and R. J. Bowering, 12CEC:71:575
Prediction Curves for Waves near the Source of an Impulse, Robert L. Miller, 12CEC:71:609

Incentives
Management the Lincoln Electric Way, CE:Jan 73:76

Incineration
Chicago's Northwest Incinerator, Milton Pikarsky, CE:Sept 71:55
Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104
Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10: Oct 71:1431:8451

Incinerators
Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10: Oct 71:1431:8451
New Municipal Incinerator Defeats Pollution/ Corrosion Problems, Eugene S. Backus, CE:Dec 71: 48
Residue Characterizations, Robert J. Schoenberger and Paul W. Purdom, SA3:June 69:387:6590

Inclinometers
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
Field Measurements at La Angostura Cofferdams, Luis Ramirez De Arellano and Edmundo Moreno Gomez, PES:72:I-779
Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101
Measuring Pile Deflections With Inclinometer, Jai B. Kim and Robert J. Brungraber, TN: GT7:July 74: 867:10641
Recording Inclinometer for Measuring Soil Movement, Leslie G. Bromwell, Christopher R. Ryan and William E. Toth, 4PCSM:71:II333

Inclusions
Chicago's Northwest Incinerator, Milton Pikarsky, CE:Sept 71:55
Stress Analysis of Hollow Cylindrical Inclusions, Sidiq M. Dar and Robert C. Bates, GT2:Feb 74: 123:10364

Incompressible Flow
Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472

Incremental Costs
Multi-year Construction Contracts, Donald A. Patrick, CE:Jan 71:65

Indentation
Upper Bound Analysis Of Rough Footing Indentation, Lawrence A. Larkin, TN: EM2:Apr 72:493:8815

Indexes (Documentation)
Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132
Information Sources on Water Quality, Including Thermal Pollution, Fred A. Limpert, Chmn., SA3: June 72:569:8987

India
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Evaluation of Harbor Deepening Projects, Sunil K. Bhattacharya and Amarendra N. Biswas, WW1:Feb 73:111:9575
General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225: 8866
Study of Mudbanks along the Southwest Coast of India, N. S. Moni, 12CEC:71:739
Suspended Load In Bhagirathi River System, Amarendra N. Biswas, TN: HY1:Jan 72:315:8617
Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887
Systematic Study of Coastal Erosion and Defence Works in the Southwest Coast of India, N. S. Moni, CE13:72:II-1427
Wave Forecasting for the West Coast of India, Jade Dattatri and P. S. Renukaradhya, 12CEC:71:203
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532

Indiana
Education for Construction Engineering and Management, John A. Havers and Donn E. Hancher, CEE:Feb 74:1-662

Industrial Engineering
SCSD:Pioneer Effort in Systems Approach to Building Construction, Christopher Arnold, CE:Apr 69:41

Industrial Management
Recycling of Land Resources, Ellis L. Armstrong, PWS:Nov 72:57

Industrial Plants
Broad Scope of Navigation's Economic Impact, Minard I. Foster, WW1:Feb 69:23:6389
Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397

Industrial Relations
Dsc, Industrial Relations and Manpower in Construction, by Daniel Quinn Mills (Book Review), Glenn Vogelein, CE:Sept 72:38

Industrial Wastes
Analysis of Equalization Basins, Alfred T. Wallace, SA6:Dec 68:1161:6310
Centralized Treatment of Industrial Wastewaters, Charles A. Monaghan and Don Simmons, CE:June 73:85
Characterization of Mixing Aerated Lagoons, Keith L. Murphy and Alfred Warren Wilson, EE5:Oct 74: 1105:10865
Clarification of Book-Mill Effluent by Enzyme-Alum, Yeun C. Wu, EE3:June 74:541:10573
Collection of Oil Slicks, Ralph H. Cross, III and David P. Hoult, WW2:May 71:313:8122

Costs and Benefits Reating to Paper Mill Waste Treatment, Arthur Lesser, Jr. and Michael A. Tirabassi, EI1:Jan 74:61:10279
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Design and Economics of Joint Wastewater Treatment, W. Wesley Eckenfelder, Jr., SA1:Feb 72:153:8746
Disposal Well Problems in Chicago and Bakersfield Areas, Ralph G. Berk, SA5:Oct 71:675:8405
Economics from the Viewpoint of Industry, Nelson L. Nemerow, CWFE:Mar 71:279
Field Consolidation of High Ash Papermill Sludge, Robert P. Vallee and Orlando B. Andersland, GT3: Mar 74:309:10431
Five Year Study of Des Moines River Water Quality, E. Robert Baumann, J. G. DeBoer and Charles S. Oulman, IR73:Aug 73:711
Hydrology of Spray-Runoff Wastewater Treatment, Richard E. Thomas, James P. Lae, Jr. and Curtis C. Harlin, IR3:Sept 70:289:7538
Industrial Sewage in the Weser Estuary, Gunter Luck, CE13:72:III-2137
Industrial Waste Charges, James A. Seagraves, EE6: Dec 73:873:10203
Industrial Waste Surcharges, Robert L. Coughlin, CWFE:Mar 71:323
Industry and Conservation--A Strange but Compatible Marriage, George B. Angevine, WQEF: Mar 70:45
Japan Develops Water Pollution Control Technology, Takeshi Goda and Hisashi Sumitomo, CE:Nov 71: 42
Lignosulphonates in Lake Paijanne Water, Seppo Priha, SA2:Apr 71:191:8021
Mini Automobile-shredding Plant for Western Michigan, Charles E. Haltenhoff, CE:Apr 71:55
Monte Carlo Simulation of Industrial Waste Discharges, Paul M. Berthouex and Linfield C. Brown, SA5:Oct 69:887:6836
Nitrogen Transformation in Activated Sludge Treatment, Jerzy Ganczarczyk, SA3:June 71:247: 8163
Oil Boom for Emergency Harbor Use, Ralph H. Cross, III and John J. Cunningham, WW1:Feb 73: 27:9531
Oil Booms in Tidal Currents, Ralph H. Cross, III and David P. Hoult, WW1:Feb 72:25:8719
Recent Paper Industry Waste Treatment Systems, William J. Gillespie, SA2:Apr 70:467:7234
Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214
Removal of Lignin from Water by Precipitate Flotation, Mu-Hao Wang, Marvin L. Granstrom, Thomas E. Wilson and Lawrence K. Wang, EE3: June 74:629:10574
Research Needs in Sanitary Engineering, Jack M. Betz, Chmn., SA2:Apr 72:299:8833
Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543
Static Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE3:June 74:529:10572
Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561: 8990
Versatility and Expandability of Pretreatment, Rolf Eliassen and D. F. Coburn, SA2:Apr 69:299:6514
Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
What's New in Deep-Well Injection?, Herman Bouwer, CE:Jan 74:58

Industrial Waste Treatment

Burying Your Pickle Liquor Disposal Problem, D. R. Smith, CE:Nov 69:37
Collection of Oil Slicks, Ralph H. Cross, III and David P. Hoult, WW2:May 71:313:8122

Industrial Water

Economic Impact of the Conversion of Water from Irrigation to Municipal and Industrial Use in the Rio Grande Basin of New Mexico, Edwin A. Lewis, IR73:Aug 73:67
Irrigation Engineering and National Goals, William S. Butcher, OIDS:72:13

Industries

Economics from the Viewpoint of Industry, Nelson L. Nemerow, CWFE:Mar 71:279
Evaluation of a University-Industry Interaction Program, Subhash C. Anand and Marvin E. Criswell, CEE:Feb 74:1-971

Inelastic Action

Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72: 2507:9348
Gravity Effect on Single-Degree Inelastic System, Chang-Kuei Sun, Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565
Inelastic Analysis of Reinforced Concrete Frames, Leone Corradi, Osvaldo De Donato and Giulio Maier, ST9:Sept 74:1925:10832
Inelastic Spatial Stability of Restrained Beam-Columns, Sriramulu Vinnakota and Pentti Aysto, ST11:Nov 74:2235:10919
Inelastic Structural Response to 2D Ground Motion, David A. Pecknold, EM5:Oct 74:949:10846

Inertia

Rotary Flow Meter as Turbulence Transducer, Erich J. Plate and James P. Bennett, EM6:Dec 69:1307: 6955

Infiltration

Analytical Treatment of Two-Phase Infiltration, Richard L. Brustkern and Hubert J. Morel-Seytoux, HY12:Dec 70:2535:7743
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Designing Against Infiltration, State-of-Art Report 4, Elmer E. Botsai, TB:73:Ia-12-1131
Graphic Relation of Intake Length-of-Run and Time, I-pai Wu and A. Alvin Bishop, IR3:Sept 70:223: 7506
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061
Impedance Effects On Unsaturated Flow In A Non-Swelling Soil, Hong Yau Wong and Raymond N. Yong, TN: SM8:Aug 72:837:9085
Infiltration and Antecedent Precipitation, Constantine N. Papadakis and Herbert C. Preul, HY8:Aug 73: 1235:9940
Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047
Infiltration Equation in Exponential Forms, Yu-Si Fok, IR4:Dec 67:125:5686
Infiltration Equations from Rate-of-Advance Data, Donald I. Norum and Don M. Gray, IR2:June 70: 111:7331
Infiltration of Water into Nonuniform Soil, Herman Bouwer, IR4:Dec 69:451:6937
One-Dimensional Infiltration into Layered Soils, Yu-Si Fok, IR2:June 70:121:7343
Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9: Sept 72:1527:9186
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195
Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78
Potable Water Availability on Long Oceanic Islands, Eugene W. Rochester, Jr. and George J. Kriz, SA5: Oct 70:1235:7627
A Proposed Watershed Retention Function, Willard M. Snyder, IR1:Mar 71:193:7979
Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443: 9212

Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870

Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375:10013

Water Infiltration in Hawaiian Sugarcane Furrows, Harlan G. Collins and Robert B. Campbell, IR4:Dec 67:81:5669

What's New in Sewer and Water Pipe, Kneeland A. Godfrey, Jr., CE:May 74:72

What's new in sewer-pipe—II, Virginia Fairweather, CE:July 74:79

What's New in Water and Sewer Pipe, Kneeland A. Godfrey, Jr., CE:Oct 70:46

Infiltration Rate

Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443:9212

Infiltrometers

Infiltration and Antecedent Precipitation, Constantine N. Papadakis and Herbert C. Preul, HY8:Aug 73:1235:9940

Infiltration Equations from Rate-of-Advance Data, Donald I. Norum and Don M. Gray, IR2:June 70:111:7331

Inflatable Structures

Finite Element Analysis of Inflatable Shells, Chin-Tsang Li and John W. Leonard, EM3:June 73:495:9802

State-of-the-Art in Inflatable Shell Research, John W. Leonard, EM1:Feb 74:17:10334

Inflation (Economics)

Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877

Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146

Inflection Points (Mathematics)

Influence of Current on Statistical Properties of Waves, Chi C. Tung and Norden E. Huang, WW4:Nov 74:267:10922

Inflow

Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8:Aug 72:1367:9088

Furrow Irrigation with Decreasing Inflow Rate, Radhey Lal and Amarendra C. Pandya, IR4:Dec 70:451:7748

•Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221

Influence Charts

Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921

Influence Surfaces for Curved Multibeam Bridges, Cenap Oran and Sheng Ching Lin, ST7:July 73:1349:9846

Vertical Stress Chart for Rigid Circular Foundations, Alfreds R. Jumikis, TN: SM12:Dec 73:1196:10189

Influence Lines

Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478

Influence Lines for Beams on Elastic Supports, Edward N. Wilson, TN: ST6:June 74:1325:10596

Information

Environment, Power, and Impact Assessment — The Politics of Information, Michael D. Bradley, EPCE:Aug 74:653

Introduction to Tall Buildings Conference, Lynn S. Beedle, Chmn, TB.73:C-21

Public Policy: Who Speaks for the Engineer, Augustine J. Fredrich, EI1:Jan 74:1:10266

Information Centers

Summary of Session I - Opening, Charles F. Corns, SUSS:July 73:29

Information Retrieval

Engineering Computer Program Documentation Standards, G. Andrew Reti, Chmn., SM3:Mar 73:249:9614

The Engineering Societies Library, Gail Bays, CE:Aug 74:88

Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132

Industry Continuing Engineering Education, Vincent J. Vitagliano, CEE:Feb 74:1-868

Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615

Information Sources on Water Quality, Including Thermal Pollution, Fred A. Limpert, Chmn., SA3:June 72:569:8987

Information Utilization in Project Planning, Donald E. Kawal, CO2:Nov 71:227:8505

Integrated Information Systems for Utilities, Brian W. Mar, UP2:Sept 73:123:9984

International Abstracts Section, Joseph M. DeSalvo, Chmn., SM3:May 70:1091:7294

International Abstracts Section, Joseph M. DeSalvo, Chmn., SM4:July 70:1505:7428

International Abstracts Section, Joseph M. DeSalvo, Chmn., SM6:Nov 70:2197:7665

International Abstracts Section, Committee on Information Retrieval, Joseph M. DeSalvo, Chmn., SA8:Aug 71:1145:8341

International Abstracts Selection, Committee on Information Retrieval, Joseph M. DeSalvo, Chmn., SM1:Jan 71:313:7848

List of Information Sources for Airport Planners, Robert K. Palmer, TE1:Feb 72:131:8721

Man-Oriented Program System for Engineering, George Rabe and Vincent A. Trossello, ST1:Jan 71:223:7850

Ocean Engineering—Selected References, Walter J. Tudor, Chmn., WW3:Aug 74:241:10767

Pipeline Location: Bibliography Supplement, Edward T. Marsh, Chmn., TE2:May 73:363:9739

Practical Continuing Education for the Individual Engineer, Russel C. Jones, CE:Feb 70:66

Specs - A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, EC5:70:707

Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55

Tall Buildings Bibliography, Gerard F. Fox, TB:73:C-AC10-39

Tall Buildings: Computerized Bibliography, Committee on Bibliography, TB:73:C-AC10-47

Tall Buildings: Preliminary Bibliography, Committee on Bibliography, TB:73:C-AC10-41

Technical Information Retrieval, Harold W. Conner and J. Nieves, CE:Nov 69:47

Theme Report: Committee on Tall Building Research, Ivan M. Viest and Wai F. Chen, TB:73:C-AC11-53

Information Systems

Coordinates Versus Confusion, Robert T. Howe, SU2:Sept 70:191:7528

Information System in Transportation Facilities, Paul Arthur, MTI:May 72:99

Integrated Information Systems for Utilities, Brian W. Mar, UP2:Sept 73:123:9984

National System for Water Data, Russel H. Langford and George H. Davis, HY7:July 70:1391:7392

Specs - A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, EC5:70:707

Specs-A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, ST1:Jan 71:425:7844

Infrared Cameras

Coastal Engineering Applications of Aerial Remote Sensing, Donald B. Stafford, CE13:72:III-2045

Infrared Detection

Infrared Imaging for Water Resources Studies, James I. Taylor and Ronald W. Stingelin, HY1:Jan 69:175:6331

Thermal Discharge: A Model-Prototype Comparison, Peter D. Hindley, Russell M. Miner and Ramon F. Cayot, PO4:Dec 71:783:8580

Infrared Heating

Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623

Infrared Mapping

Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HY6:June 74:719:10584

Infrared Photography

Area Infrared Locates Solid Ground in Mined Area, Bob Beaver and Jack Wood, CE:Mar 73:62

Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305

Infrared Scanners

Remote Sensing in the Study of Coastal Processes, Orville T. Magoon and Douglas M. Pirie, CE13:72: III-2027

Inhibition

Oxidation of Sulfide by O_2: Catalysis and Inhibition, Kenneth Y. Chen and J. Carrell Morris, SA1:Feb 72:215:8710

Initial Stress

Nonlinear Stress Analysis of Reinforced Concrete, Somasundaram Valliappan and T. F. Doolan, ST4: Apr 72:885:8845

Injection

Lime is not a panacea, Edward D. Graf, CE:July 74: 47

Lime Slurry Pressure Injection Tames Expansive Clays, Paul J. Wright, CE:Oct 73:42

Injection Wells

Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813

Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598

Injectors

Repairs Delaminated Bridge Decks, Carl F. Crumpton, Bruce F. McCollom and F. Wayne Stratton, CE:Nov 74:55

Inland Waterways

Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881

Implication of Systems Analysis to Inland Navigation, DuWayne A. Koch, WW3:Aug 71:559: 8302

Navigation Charting for Inland Waterways, Benjamin O. Holmes, SU1:Oct 69:117:6856

Inlets (Waterways)

Characteristics and Behavior of Pacific Coast Tidal Inlets, Joe W. Johnson, WW3:Aug 73:325:9927

Coastline Changes Near a Tidal Inlet, Emmanuel Partheniades and James A. Purpura, CE13:72:II-843

Equilibrium Flow Areas of Inlets on Sandy Coasts, Morrough P. O'Brien, WW1:Feb 69:43:6405

Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948

Hydraulics and Sedimentary Stability of Coastal Inlets, Morrough P. O'Brien and Robert G. Dean, CE13:72:II-761

Modeling Sedimentation at Inlet and Coastal Region, Pang-Mou Lin, CE13:72:II-883

Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:1:9706

Preservation of Estuaries by Tidal Inlets, Mason G. Lockwood and Henry P. Carothers, WW4:Nov 67: 133:5583

Rapid Discharge Measurement In Tidal Inlets, Bent A. Christensen and H. E. Walker, CEO-II:70:743

Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952

Sand Transport During Closure of Tidal Channels, J. N. Svasek, J. H.J. Terwindt and A. W. Walther, CE13:72:II-865

Sediment Transport in a Tidal Inlet, John R. Ritter, CE13:72:II-823

Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831

Unsteady Flow in Channel of Variable Cross Section, John Ellis, HY10:Oct 70:1927:7583

Innovation

Alternative Paths to Guideway Transportation, William F. Hamilton, UTI:71:385

Analyzing Urban Transporatation Innovations, Joseph L. Schofer, UTI:71:187

Assessing the Prospects of Current Transit Proposals, Martin Wohl, UTI:71:43

Demand Responsive Transportation Systemp, Daniel Roos, UTI:71:123

Demand Responsive Transportation Systems, Daniel Brand, UTI:71:327

General Introduction, Daniel Brand, UTI:71:5

The Identification of Transportation Demand, Richard de Neufville and Joseph H. Stafford, UTI: 71:281

Improving Urban Highway Transportation through Electronic Route Guidance, Rinaldo Favout, UTI: 71:141

Introduction to Section III: Analyzing Innovative Transportation Alternatives, Daniel Brand, UTI:71: 185

Introduction to Section II: Innovative Transportation Prototypes, Paul L. Sitton, UTI:71:79

Introduction to Section IV: Transportation Innovation -- Directions and Strategy, Charles Baker, Chmn., UTI:71:325

Measuring and Interpreting Consumer Preferences, Siegfried M. Breuning, UTI:71:307

Pallet System for Integrating and Automating Urban Transportation, David Gordon Wilson, UTI:71:81

Specialization of Urban Transportation Systems, Clark Henderson, UTI:71:405

StaRRcar Automatic Capsule Transportation, William L. Alden, UTI:71:113

Systematically Analyzing Transportation Alternatives, Marvin L. Manheim and Earl R. Ruiter, UTI:71: 207

Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897

Transportation Innovation and the Manufacturer, Richard H. Shackson, UTI:71:367

Transportation Innovation: Making It Profitable, C. Wade Tambor, UTI:71:421

The Urban Transportation / Innovation Problem: Can New Concepts Help? - The Institutional Response, Michael Cafferty, UTI:71:19

Why Man Creates -- Introduction, M. D. Morris, CEWAU:74:3

Inorganic Compounds

Effect of Inorganics on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, NSCD:71:85

In Situ Tests

The Development of a Special Instrument for the In Situ Measurement of the Strength and Stiffness of Soils, C. Peter Wroth and John M.O. Hughes, EFSE:Aug 74:295

Indirect Determination of In Situ Stress Ratios in Particulate Materials, Geoffrey E. Blight, EFSE: Aug 74:350

In-situ Shear Test for Rock Fills, Surendra P. Jain and Ramesh C. Gupta, GT9:Sept 74:1031:10823

Instrumentation to Monitor Behavior of Shotcrete Support Systems, Ronald A. Jones and J. W. Mahar, SUSS:July 73:297

Measurement of InSitu Stress in Soils, Peter J. Huck and Madan M. Singh, EFSE:Aug 74:269

New Developments in In-Place Testing of Shotcrete, Todd E. Rutenbeck, SUSS:July 73:246

Summary of Workshop C - Shotcrete Quality Control and Instrumentation, Paul J. Tilp, SUSS:July 73:351

Inspection

Application of New Methods of Structural Analysis for Safety Investigations of Concrete Dams, Eric B. Kollgaard, IMROD:Sept 73:498

Bridge Deck Protection and Resurfacing, Roland A. Pettitt, ST4:Apr 70:791:7217

Bureau of Reclamation Examination Program, Paul K. Bock, IMROD:Sept 73:50

Caisson Construction Problems and Correction in Chicago, Clyde N. Baker, Jr. and Fazlur R. Khan, SM2:Feb 71:417:7934

Closing Remarks, Ellis L. Armstrong, IMROD:Sept 73:901

Closing the Last Unlicensed Gap in the Construction Process, Edward R. Fisk, CE:Sept 74:96

Construction of Deep Foundations, William F. Swiger, PES:73:III-207

Construction Practice for Hot-Mix Bituminous Pavements, Report of the Subcommittee on Construction of the ASCE Committee on Airfield Pavements, Henry Aaron, Chmn., AT1:Nov 68:31:6251

Control of Quality-A System, Edward A. Abdun-Nur, CO2:Oct 70:119:7576

Corps of Engineers Dam Inspection Program, James A. Rhodes, IMROD:Sept 73:61

Dam Inspection Program of the Federal Power Commission, Desloge Brown, IMROD:Sept 73:23

Dam Safety-An Objective of Federal Licensing, F. Stewart Brown, PO1:Mar 67:67:5155

Dam Safety Laws and Dam Safety Inspections in South Africa, Johannes Gideon du Plessis, IMROD:Sept 73:241

Dam Safety Laws and Inspection Procedures in the United Kingdom, Angus A. Fulton, IMROD:Sept 73:180

Design Limitations for Fatigue, State-of-Art Report 5, Takeo Naka, TB:73:II-18-771

EBMUD's Programs for Inspection and Remedial Treatment of Old Dams, Walter F. Anton, IMROD:Sept 73:829

Fracture Analysis of King's Bridge, Melbourne, Ronald B. Madison and George R. Irwin, ST9:Sept 71:2229:8377

French Laws and Regulations Regarding Dam Supervision and Inspection, Michel A. Carlier, IMROD:Sept 73:198

The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40

Inspect Bridges Now, Avoid Problems Later, Chester F. Comstock, CE:Nov 71:66

Inspection, Maintenance and Remedial Treatment: San Francisco Water Department, Julian L. Bardoff and Paul T. Matsumura, IMROD:Sept 73:849

Inspection of Steel Bridges For Fatigue Damage, by the Subcommittee on Inspection of Steel Bridges for Fatigue of the Task Committee on Structural Fatigue of the Structural Division, Ivan M. Viest, Chmn., ST8:Aug 71:2107:8321

Inspection Practices for Tall Buildings, Lowell A. Napper, TB:73:Ib-9-898

Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867

Investigation by Geophysical and Instrumentation, Gordon W. Prescott, IMROD:Sept 73:558

Maintenance and Repairs of Ancillary Equipment, Dale H. Doble, IMROD:Sept 73:451

Mechanical Equipment Problems on Old Dams, Fred Engstrom, IMROD:Sept 73:440

National Program for Inspection of Dams, John W. Morris, IMROD:Sept 73:14

New Design Criteria for USBR Penstocks, Harold G. Arthur and John J. Walker, PO1:Jan 70:129:7034

Opening Remarks, Ellis L. Armstrong, IMROD:Sept 73:1

Owner's Comments, Edward J. Drobnack, IMROD: Sept 73:523

An Owner's Program for the Investigation and Analysis of Its Dams, Richard B. Roche, Jr., IMROD:Sept 73:516

Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941

Progress Model for Construction Activity, Robert I. Carr, Thomas O. Brightman and Franklin B. Johnson, CO1:Mar 74:59:10428

Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749

Rehabilitation of Dams: Retrospect and Prospect, Gilbert G. Stamm, IMROD:Sept 73:4

A Review of TVA's Problems and Treatment of Foundations of Existing Dams, Lloyd W. Lundin, IMROD:Sept 73:641

Safety Inspection Of Hydro Projects-FPC Order 315, Arthur Martin, Jr., PO2:Mar 71:449:7958

Safety of Dams -- Hydrologic and Hydraulic Aspects, Vernon K. Hagen, IMROD:Sept 73:337

Selecting the Appropriate Design Flood, Gordon R. Williams, IMROD:Sept 73:348

Significance of Safety in Civil Engineering Practice, in the Public Interest, by the ASCE Task Committee on Safety Policy, Richard N. Bergstrom, Chmn., EI1:Jan 74:11:10299

Stability of Existing Dam Foundations, Jacob F. Redlinger, IMROD:Sept 73:677

Stability of Old Dams as Related to Their Foundations, Karl V. Taylor, IMROD:Sept 73:688

States' Experience and Their Problems, Robert B. Jansen, IMROD:Sept 73:77

Summaries of Sessions, William N. Holway, IMROD: Sept 73:273

Summary of the Session on Federal Inspection Activities, Samuel H. Miles, IMROD:Sept 73:67

Summary of the Session on International Experiences, Jack C. Jones, IMROD:Sept 73:262

Summary of the Session on International Experiences, Jack C. Jones, IMROD:Sept 73:262

Summary of Workshop on Foundations, Melvin A. Jabara and Paul K. Bock, IMROD:Sept 73:541

Summary Report of Questionnaire on Construction Inspection, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192

Supervision of Dams at the Swedish State Power Board, Karl Arthur Scherman and S. Nylander, IMROD:Sept 73:157

Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239

TVA Dam Inspection Activities, Lloyd W. Lundin, IMROD:Sept 74:39

The Undersea Aqueduct -- A New Concept in Transportation, Ellis L. Armstrong, TE2:May 72: 303:8893

Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66

Underwater Inspection by Submarine, Edward J. Drobnack, IMROD:Sept 73:459

Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851

Installation

Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64

Installing

Guide for the Design of Aluminum Formed-Sheet Building Sheathing, Robert B.B. Moorman, Chmn, ST8:Aug 69:1727:6744

Instantaneous Unit Hydrograph

Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024

Institutional Constraints

Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812

Institutional Aspects of Water Management, Edwin S. Haycock, OIDS:72:265

Legal and Institutional Constraints in Consolidating Irrigation Systems, George E. Radosevich, OIDS: 72:349

Institutions

Our Priceless Heritage, Our Youth, Leon Jaworski, CE:Mar 73:76

Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667

Instructions

Experience in Teaching Engineering Judgment by Case Histories in Foundation Engineering, Ralph B. Peck and Herbert O. Ireland, CEE:Feb 74:1-187

Instructors

The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74:1-559

Can Continuing Education Teach Experience?, Arthur B. Gruver, CEE:Feb 74:1-825

Civil Engineering Education Requirements for an Electric Utility, Bruce R. Laverty and Jim O. Bass, CEE:Feb 74:1-400

Civil Engineering Faculty Profile (Discussion), James H. Schaub and D. A. Eckler, CEE:Feb 74:2-298

Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538

A Consulting Firm in Civil Engineering Education: A History of Four Years of Participation, Eben Vey and David A. Novick, CEE:Feb 74:1-927

Continuing Education for the Engineering Educator, Edward J. Rhomberg and David A. Novick, CEE:Feb 74:1-955

Doctoral Education and the Practicing Professional, Warren J. Baker and Edward J. Rhomberg, CEE:Feb 74:1-764

Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442

Engineering at the University of Illinois (Chicago Circle), Ernest F. Masur, CEE:Feb 74:1-127

The Ethics of Teacher Evaluation, Chester Lee Allen, PP1:Oct 71:153:8465

Experience in Teaching Engineering Judgment by Case Histories in Foundation Engineering, Ralph B. Peck and Herbert O. Ireland, CEE:Feb 74:1-187

Future Goals and Directions - The Educator's Viewpoint, William M. Sangster, CEE:Feb 74:2-280

Involvement of Practitioners in Education for the Practice of Law, Millard H. Ruud, CEE:Feb 74:2-210

Involvement of Practitioners in Education for the Practice of Medicine, James F. Schieve, CEE:Feb 74:2-218

The ME(Civil) Program at Cornell University - Part 1 - Program Development, Dwight A. Sangrey and George Winter, CEE:Feb 74:1-779

The ME(Civil) Program at Cornell University - Part II - Program Implementation, Richard N. White, Vaughn C. Behn, Gerard F. Fox and Arthur Adams, CEE:Feb 74:1-787

A New Civil Engineering Curriculum at Purdue, Gerald A. Leonards, Martin J. Gutzwiller and Robert H. Lee, CEE:Feb 74:1-39

New Interdisciplinary Program in Construction Management at WPI, A. Fattah Chalabi, CEE:Feb 74:1-645

The "Professional" Faculty, Waldron Murrill McLellon and Robert D. Kersten, CEE:Feb 74:1-800

A Proposed Doctor of Engineering Program, Fred J. Benson and Charles H. Samson, Jr., CEE:Feb 74:1-772

Role of a Small College in Education of Engineers, Jon A. Cole and Edward F. Cross, CEE:Feb 74:1-55

The Role of Consulting in Faculty Development, Furman W. Barton, Fred C. McCormick and Henry L. Kinnier, CEE:Feb 74:1-962

A Sabbatical Leave with a Consulting Firm, Peter George Hoadley, CEE:Feb 74:1-950

The Socio-Engineering Program at S.U.N.Y.-Buffalo, George C. Lee, CEE:Feb 74:1-703

Teaching Design with Practicing Engineers (Five Years of Experience), John J. Cassidy, CEE:Feb 74:1-937

Trends in Faculty Qualifications and Objectives, Dan H. Pletta, CEE:Feb 74:2-168

University Teaching by Practicing Engineers, King S. Luk, CEE:Feb 74:1-945

The Urban and Environmental Engineering Program at the University of North Carolina at Charlotte, Jack B. Evett, CEE:Feb 74:1-90

Women in Civil Engineering Education, Judith S. Liebman, CEE:Feb 74:1-993

Instrumentation

Benefits of Tunnel Measurements, Larry H. Heflin, EFSE:Aug 74:366

Buoy for Recording Ocean Wave Height and Period, P. M. Blair, WAVES:Sept 74:254

Calibration of Wave Recorders by an Optical Method, John A. Charlton, WAVES:Sept 74:247

CERC Field Wave Gaging Program, Harold G. Peacock, WAVES:Sept 74:170

The Development of a Special Instrument for the In Situ Measurement of the Strength and Stiffness of Soils, C. Peter Wroth and John M.O. Hughes, EFSE:Aug 74:295

Embankment Instrumentation Tunnel Performance, Charles H. Dowding, T. William Lambe and L. Anthony Wolfskill, TN: GT5:May 74:567:10510

Engineering Measurements, Eugene L. Foster, EFSE:Aug 74:23

Geomechanical Instrumentation in Mexico Tunnels, Derek F. Berry, URC:72:51

Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101

Instrumentation to Monitor Behavior of Shotcrete Support Systems, Ronald A. Jones and J. W. Mahar, SUSS:July 73:297

Integrating-Float Measurements at Low Velocities, Henry Liu and Larry D. Martin, HY1:Jan 70:143:7027

Investigation by Geophysical and Instrumentation, Gordon W. Prescott, IMROD:Sept 73:558

Load Transfer in Earth and Rockfill Dams, L. Radley Squier, SM1:Jan 70:213:7004

Measured Performance of Braced Excavation, T. William Lambe, L. Anthony Wolfskill and Ing H. Wong, SM3:May 70:817:7307

Measurement of InSitu Stress in Soils, Peter J. Huck and Madan M. Singh, EFSE:Aug 74:269

Measuring Pile Deflections With Inclinometer, Jai B. Kim and Robert J. Brungraber, TN: GT7:July 74:867:10641

Minor Principal Stress Measurements in Marine Clay with Hydraulic Fracture Tests, Michael Bozozuk, EFSE:Aug 74:333

New Applications of Seismic Investigations to Engineering Problems, Phillip Romig, EFSE:Aug 74:144

Ocean Wave Measuring Instrumentation, Richard L. Ribe and Eugene M. Russin, WAVES:Sept 74:396

Ocean Wave Research in Southern Africa, Johan A. Zwamborn, C. van Schaik and A. Harper, 12CEC:71:13

Oroville Dam and Edward Hyatt Powerplant, William R. Gianelli, CE:June 69:68

Performance Instrumentation Installed in Oroville Dam, John E. O'Rourke, GT2:Feb 74:157:10363

Performance of Briones Dam, Walter F. Anton and David J. Dayton, PES:72:I-853

Recent Developments in Earthwork Instrumentation, Raymond A. Forsyth and Kenneth Jackura, EFSE:Aug 74:254

Rock Mechanics at Churchill Falls, Raymond P. Benson, Robert J. Conlon, Andrew H. Merritt, Paul Joli-Coeur and Don U. Deere, URC:72:407

Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: F. Laboratory Procedures, Task Committee on Preparation of the Sedimentation Manual, Vito A. Vanoni, HY5:Sept 69:1515:6757

Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73:281:10164

Slurry Wall Construction for BART Civic Center Subway Station, J. George Thon and Richard C. Harlan, SM9:Sept 71:1317:8361

Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653: 9016

Temperature Effects on Behavior of Port Allen Lock, Gerald W. Clough and James M. Duncan, PES:72: I-1467

What's Ahead in Subsurface Exploration (Closing Remarks), Madan M. Singh, EFSE:Aug 74:387

Instruments

Considerations in Design of Air Monitoring Network, Alroy F. Aschoff, PO1:Mar 69:119:6475

Equipment for Field Deformation Measurements, C. John Dunnicliff, 4PCSM:71:II319

Hydrodynamic Effects of Seepage on Bed Particles, Gary Z. Watters and Manam V.P. Rao, HY3:Mar 71:421:7973

Reliability of Refraction in Polar Astronavigation, Gerald W. Johnson and James L. Clapp, SU2:Nov 71:165:8502

Structural Reaction Dynamometers, M. Daniel Vanderbilt, ST6:June 71:1701:8188

Insulation

Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009

Insulated and Improved Sub-grades for Eliminating Frost Heave, Edward P. Keiner, Jr., CE:Feb 69:38

Optimal Multifactor Design Procedure for Sandwich Panels, Chester P. Smolenski and Edward M. Krokosky, ST4:Apr 70:823:7243

Performance Requirements for Fireproofing Materials, Lawrence G. Seigel, EM3:June 74:489: 10598

Sanitary Sewer Extension Built Above Ground, R. Andrew Easley, Jr., CE:Apr 71:66

Insurance

General Aviation in Our Transportation System, George P. Coker, ASC73:Mar 73:133

Overview of the Health Care Services Industry, Robert A. Tschetter, PP4:Oct 72:655:9283

Professional Liability Insurance, Paul L. Genecki, PP2:Apr 72:213:8820

Superior Pension Plan Helps Attract Employees, Jack J. Schoustra and Richard S. Summerhays, CE:Jan 73:58

Toward a Coherent Natural Hazards Policy, John H. Wiggins, CE:Apr 74:74

Insurance Costs

Overview of the Health Care Services Industry, Robert A. Tschetter, PP4:Oct 72:655:9283

Intakes

Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859

Diversion by Lake Piercing Snettisham Project, Thomas E. Munsey, CE:Oct 69:48

Intake System Assessment for Central Columbia River, David L. Schreiber, C. Dale Becker, James J. Fuquay and Ronald A. Chitwood, PO2:Dec 74:139: 11001

Numerical Modeling of Constituent Transport in Bay Systems, Robert G. Dean and R. B. Taylor, CE13: 72:III-2227

136, Michael C. Quick, HY7:July 70:1403:7399

Intake Structures

Multilevel Outlet Works at Four Existing Reservoirs, Garry H. Austin, Donald A. Gray and Donald G. Swain, HY6:Nov 69:1793:6877

Intake Systems

Novel Construction Concept for Raw-Water Intake, Carlton T. Wise and Doyle D. Gillespie, CE:June 71:43

Integral Equations

Application of Dual Series to Rectangular Plates, Kraiwood Kiattikomol, Leon M. Keer and John Dundurs, EM2:Apr 74:433:10486

Increased Logarithmic Weir Profiles, D. Chandrasekaran and Nagar S. Lakshmana Rao, HY11:Nov 74:1583:10946

Singular Integral Equation Solution For Torsion, Christopher C. Lo and Francis W. Niedenfuhr, TN: EM4:Aug 70:535:7444

Integral Transformations

Boussinesq Problems for Nonhomogeneous Solid, Mumtaz K. Kassir, EM2:Apr 72:457:8847

Integration (Mathematics)

Flow Profile Computation by Direct Integration, Kanakatti Subramanya and Amruthur S. Ramamurthy, TN: HY9:Sept 74:1307:10776

Interactions

Approximate Solution of Beam-columns, Wai F. Chen, TN: ST2:Feb 71:743:7861

Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, TE4:Nov 74:943:10936

Equilibrium Conditions in Beach Wave Interactioe, Harihar Raman and John J. Earattupuzha, CE13: 72:II-1237

Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675

Nonlinear Elastic Truss Analysis Partitioning, N. M. Singaraj and Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364

Prestressed Beams in Torsion, Bending, and Shear, Robert L. Henry and Paul Zia, ST5:May 74:933: 10560

Settlement Of Rectangular Foundation On Soil Layer, Jean-Pierre Giroud, TN: SM1:Jan 72:149: 8618

Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193

Tidal Inlet Current -- Ocean Wave Interaction, Lyndell Z. Hales and John B. Herbich, CE13:72:I-669

Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73: 1205:9788

Inter-Agency Cooperation

Case Studies of Interdisciplinary Team Efforts in Environmental Design, Eugene D. Jones, ABS:71: 75

Experiences with Interdisciplinary Teams, Norman M. Klein, ABS:71:83

Goals of the Conference, William J. Hedley, ABS:71: v

Keynote Address, Oscar S. Gray, ABS:71:1

Interchanges

Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7: July 72:1377:9013

High-mount Interchange Lights, Richard C. LeVere, CE:May 71:44

New Concepts in Rail-Bus Interchange, Joel P. Leisch, TE1:Feb 74:103:10328

Planning Implications of Urban and Rural Freeway Interchanges, Herman A.J. Kuhn, UP1:Apr 69:81: 6521

Theoretical Analysis of Interchange Composition, Ken-ichi Takebe, TE:Aug 69:483:6737

The 1-Point Procedure, R. A. Georgi, CE:Feb 71:60

Interest

Construction Cost and Design Considerations, John W. Leonard, RCCD:70:31

Interest Groups

Needed: A National Land Use Policy, Daniel A. Dreyfus, CE:May 72:52

Interfaces
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493
Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095
Interface Specialists: A New Engineering Profession?, Granville H. Sewell, CEWAU:74:154
Interfacial Wave Breaking in Stratified Liquids, Ralph R. Rumer, Jr., HY3:Mar 73:509:9633
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649
Measurement of Density Currents in an Idealized Model, Timm Stuckrath, 12CEC:71:1979
Turbulence in the Weakly Mixing Zone of the Interface, Toshio Iwasaki and Tetsuo Abe, ISSF: Aug 72:251

Interference
Delays and Interferences, Albert Foreman, CEWAU: 74:163

Interferometers
Holography—A New Tool for Soil Dynamics, Richard D. Woods, Norman E. Barnett and Rolf Sagesser, GT11:Nov 74:1231:10949

Interior Decorating
First National Bank of Oregon, Ormond Robert Berry, TB:73:C-P-258

Internal Friction
Residual Shear Strength, Peter Smart, TN: SM6:Nov 70:2181:7646
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566
Yielding of Sand in Plane Strain, Sam Frydman, GT5:May 74:491:10540

Internal Pressure
Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375
Analytical Study of Pressurized Elliptical Cavities, Yoginder P. Chugh and H. Reginald Hardy, Jr., RM14:73:339

Internal Waves
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727
Interfacial Wave Breaking in Stratified Liquids, Ralph R. Rumer, Jr., HY3:Mar 73:509:9633
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603
Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581
Water Exchange in Two-Layer Stratified Waters, Hans Hyden, HY3:Mar 74:345:10402
Wind-Generated Internal Waves and Inertial-Period Motions, Wolfgang Krauss, ISSF:Aug 72:283

International Commissions
Closing Remarks at Tall Buildings Conference, Le-Wu Lu, TB:73:C-511
Closing Remarks at the Tall Buildings Conference, Michael P. Gaus, TB:73:C-509
Construct Systems, Summary Report, W. H. Arch, Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823
Implementation, Elmer K. Timby, TB:73:C-DM-225
International Standards on Steel, Albert J. Oudheusen, TB:73:II-13-135
Introduction to Metric or SI, Burton Kleinberg, CE: Mar 73:55
Introduction to Tall Buildings Conference, Lynn S. Beedle, Chmn, TB:73:C-21
Introduction to Tall Buildings Proceedings, Lynn S. Beedle, TB:73:C-1
Limit States of Composite Structures, Duiliu Sfintesco, TB:73:II-19-895
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Opening Remarks to Tall Buildings Conference, Le-Wu Lu, Conference Chairman, TB:73:C-19
Some Comments on Coastal Engineering, Morrough P. O'Brien, CE13:72:I-3
Systems and Concepts, Preface, Fazlur R. Khan, TB: 73:Ia-1
Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55
Tall Buildings, Conference Summary, Duiliu Sfintesco, TB:73:C-505
Tall Buildings in the World (The Viewpoint of a Non-American), Duiliu Sfintesco, TB:73:C-13
Welcoming Remarks at the Tall Buildings Conference, Oscar S. Bray, President, ASCE, TB: 73:C-27
Welcoming Remarks at the Tall Buildings Conference, Oscar S. Bray, President, ASCE, TB: 73:C-27
Welcoming Remarks at the Tall Buildings Conference, Maurice Cosandey, President, IABSE, TB:73:C-29

International Compacts
Reaction to USCOLD's Proposed Law for Dam Safety, Alfred R. Golze, IMROD:Sept 73:282

International Relations
Function of the International Joint Commission, Eugene W. Weber, PO2:Nov 68:177:6236
Welcoming Remarks at the Tall Buildings Conference, Oscar S. Bray, President, ASCE, TB: 73:C-27

International Trade
Expo '74 Rejuvenates Downtown Spokane, Virginia Fairweather, CE:June 74:48

Interoceanic Canal
Currents in an Interoceanic Canal, Edwin W. Eden, Jr., HY1:Jan 69:79:6342

Interpolation
Cubic Interpolation For Numerical Flood Routing, Paul E. Barker and Thomas P. Propson, TN: HY1: Jan 72:309:8617
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Intersections
Proximal Decisions in Traffic Intersections, Lloyd Sako and Samuel Zundelevich, TE3:Aug 73:597: 9915
The 1-Point Procedure, R. A. Georgi, CE:Feb 71:60

Interstate Highway System
Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138
Private Engineering in Public Works, William A. Bugge, TE1:Feb 69:67:6396

Invariance
Convenient Form Of Stress Invariants For Plasticity, Gyan C. Nayak and Olgierd C. Zienkiewicz, TN: ST4:Apr 72:949:8838
Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094
Solution of Elastic Plates by Invariant Imbedding, Nestor Distefano and Jaime Schujman, EM5:Oct 71:1349:8424

Inventions
The Creative Force, Will Oursler, CEWAU:74:10

Inventories
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078

Investigations
An Analysis of the Pt. Pleasant Bridge Investigation, Charles F. Scheffey, STF:73:77
Corps of Engineers Studies of Shotcrete, Thomas J. Reading, SUSS:July 73:263
Foundation Design, Theme Report, William F. Swiger, TB:73:Ia-11-849
Model Investigation of Berthing Impacts, Robert C. H. Russell, BMS:71:215
Program for Investigation and Analysis of Dams -- Los Angeles County Flood Control District, Richard B. Roche, Jr., IMROD:Sept 73:804
Soils Engineering For Wells Project, Harris H. Burke, PO2:Mar 71:317:7976
Summary of Workshop C - Shotcrete Quality Control and Instrumentation, Paul J. Tilp, SUSS:July 73:351

Investment
Budget Constraints and Multiobjective Planning, Arthur Maass and David C. Major, PP3:July 72:359:9064

Investments
Financing Metro, William I. Herman, TE4:Nov 70:571:7680
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742
Optimum Investment in Structural Flood Control, William Whipple, Jr., HY6:Nov 68:1507:6238
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115

Inviscid Flow
Circular Jumps, Subhash C. Mehrotra, HY8:Aug 74:1133:10758
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711

Iodine
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
Status of Water Disinfection with Iodine, Riley N. Kinman, A. P. Black and W. C. Thomas, Jr., 4NSCD:71:11

Ion Density (Concentration)
Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489:9944

Ion Exchange
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901
Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45
Sewerage and Sewage Treatment: State-of-the-Art Abstracts, Ralph Stone, Chmn, SA1:Feb 70:35:7074

Ions
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, NSCD:71:61
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
Optimization of the Ion Flotation of Dichromate, Robert B. Grieves, Gregory A. Ettelt, J. Thomas Schrodt and Dibakar Bhattacharyya, SA3:June 69:515:6610

Iowa
Five Year Study of Des Moines River Water Quality, E. Robert Baumann, J. G. DeBoer and Charles S. Oulman, IR73:Aug 73:711
Iowa's Dilemma--or--the Iowa Dilemma, WQEF:Mar 70:15

Iran
Ghanats of Iran: Drainage of Sloping Aquifer, Mohammed Bybordi, IR3:Sept 74:245:10785
Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973

Iraq
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10:Oct 72:995:9303

Iron
Effects of Iron on Activated Sludge Treatment, John L. Carter and Ross E. McKinney, EE2:Apr 73:135:9679
Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672
Iron Removal Using Magnesium Oxide, John T. O'Connor and Barrett E. Benson, SA6:Dec 70:1335:7740

Iron Compounds
Anaerobic Digestion of Sludge Containing Iron Phosphate, Sudershan Malhotra, Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432

Iron Ore Deposits
First Long-Distance Iron Slurry Pipeline, E. H. Griesshaber, CE:Jan 69:66

Iron Oxides
Coagulation of Iron Oxide with Alum, Kamlesh K. Jain, Kun Li and Robert R. Rothfus, EE4:Aug 73:411:9945
Pennsylvania Erases Its Mining Scars, Alfred C. Ackenheil, CE:Oct 70:54

Irradiation
Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561:8990

Irreversible Processes
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72:1021:9430

Irrigation
Agricultural Waste Management, by the Committee on Agricultural Waste Management of the Environmental Engineering Division, Dan M. Wells, Chmn., EE1:Feb 74:1:10317
Agriculture and the City, Warren A. Hall, IR73:Aug 73:1
Alfalfa Water Table Investigations, Rhys Tovey, IR4:Dec 69:525:6974
Algorithm For Adjusting Stream Stage Records, William C. Mills and Willard M. Snyder, IR1:Mar 71:51:7955
Allocating Water Among Alternative Uses, John E. Reynolds, IR1:Mar 71:85:7978
Analog of Ground Water in East-Central New Mexico, H. Boyd Phillips and Harris R. McDonald, IR1:Mar 69:27:6435
Analysis of Sprinkler Irrigation Losses, Yaron M. Sternberg, IR4:Dec 67:111:5672
Analytical Model for Management of Alluvial Aquifers, Raziq Qazi and Jeris Danielson, IR2:June 74:143:10627
Applications Programs of Hail Suppression, Thomas J. Henderson, OIDS:72:403
An Approach To Operation Of A Regional Primary Water Control Sysrem, William V. Storch and Robert L. Hamrick, SEA:70:45
Aqueduct Route Optimization by Dynamic Programming, Nathan Buras and Ze'ev Schweig, HY5:Sept 69:1615:6779
Arizona Weather Modification Research Program, Paul B. MacCready, Jr., IR2:June 70:103:7324
Art of Agricultural Drainage Design and Costs, Ralph L. Toren, IR73:Aug 73:557

Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957

Automatic Cutback Furrow Irrigation System Design, Ion Nicolaescu and E. Gordon Kruse, IR3:Sept 71:343:8358

Automation For Small Irrigation Projects, Theodore E. Mann, IR3:Sept 71:501:8344

Automation of an Existing Irrigation System - Part I, Richard G. Ericsen, IR73:Aug 73:369

Basic Principles of Pulse Irrigation, David Karmeli and Gideon Peri, IR3:Sept 74:309:10831

Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760

Bentonite Sealing Methods Compared in the Field, Myron B. Rollins and Anthony S. Dylla, IR2:June 70:193:7379

Biological Control of Aquatic Weeds, Robert D. Blackburn, David L. Sutton and Thomas Taylor, IR3:Sept 71:421:8362

Biological Implications Of Water Resource Management, Taylor R. Alexander, SEA:70:1

Border Irrigation Advance and Ephemeral Flood Waves, Roger E. Smith, IR2:June 72:289:8979

Center Pivot Design Capacities in Eastern Colorado, Dale F. Heermann, Hollis H. Shull and Rome H. Mickelson, IR2:June 74:127:10588

Central California Evapotranspiration Frequencies, William O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941

Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72:585:9413

Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945

Construction and Operation of Pump Irrigation Facilities Along the Columbia and Okanogan Rivers, Boyd H. Walter, OIDS:72:161

Consumptive Use Derived From Evaporation Pan Data, George H. Hargreaves, IR1:Mar 68:97:5863

Consumptive Use of Water and Irrigation Water Requirements, Marvin E. Jensen, Chmn., CUWI:74, 215pp.

Control of Transient Free-Surface Flow, E. Benjamin Wylie, HY1:Jan 69:347:6360

Coordinated Operation of Central Valley and State Water Projects, Welby R. Madsen and David G. Coleman, HY10:Oct 74:1399:10887

Corrugated Metal Flumes, Tadaaki Naruse, OIDS:72:219

A Criterion for Vegetation Stiffness, Nicholas Kouwen and A. Harrington, IR73:Aug 73:273

Cultural Influences on Irrigation Drainage Water, J. R. Busch, D. W. Fitzsimmons, G. C. Lewis, D. V. Naylor and R. D. Carlson, IRS:Sept 72:45

Current Design Capacity Procedure Used by the USBR, Albert E. Gibbs, IRS:Sept 72:331

Current Design Capacity Procedure Used by SCS, Harlan G. Collins, IRS:Sept 72:339

Designing Trickle Irrigation Laterals for Uniformity, Terry A. Howell and Edward A. Hiler, IR4:Dec 74:443:10983

Design of California Adequct, Harald D. Frederiksen, IR2:June 69:307:6614

Design of Cloud Seeding Program, Robert D. Elliott, IR2:June 69:275:6600

Development of Automation on Salt River Project, Henry Shipley, IR2:June 70:151:7373

Development of Large Scale Drip Irrigation Systems, Benjamin R. Olson, Jr., IR73:Aug 73:311

Discharge and Travel Time for Ground-Water Conduits, Stanley S. Butler and David L. Gundlach, IR1:Mar 74:17:10393

Distribution Channels with Multiple Outlets, William E. Hart and John Borrelli, IR2:June 72:267:8976

Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72:433:9219

Ecological Impacts of Water Projects in California, Robert M. Hagan and Edwin B. Roberts, IR1:Mar 72:25:8780

The Economic Evaluation of Irrigation in Humid Areas, Milton L. David and Gary M. Mennem, OIDS:72:443

Economic Evaluation of Water Deficiencies, Alan D. Kleinman, IRS:Sept 72:415

Economic Impact of the Conversion of Water from Irrigation to Municipal and Industrial Use in the Rio Grande Basin of New Mexico, Edwin A. Lewis, IR73:Aug 73:67

Economic Pipe Sizing for Gravity Sprinkler Systems, Roland P. Perold, IR2:June 74:107:10583

Economic Pipe Sizing in Pumped Irrigation Systems, Roland P. Perold, IR4:Dec 74:425:10988

Economics of a Water-Yield Function for Sugar Cane, Howard C. Hogg, Jack R. Davidson and Jen-hu Chang, IR1:Mar 69:127:6448

Effect of Agricultural Use on Water Quality for Downstream Use for Irrigation, Jerald E. Christiansen, IR73:Aug 73:753

Environmental Aspects of Aquatic Plant Control, Thomas R. Bartley and Edward O. Gangstad, IR3:Sept 74:231:10810

Environmental Considerations in the Use of Herbicides on Reclamation Projects, John E. Knoll, OIDS:72:205

Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994

Environmental Impact of Wastewater Discharges, E. R. Hendrickson and J. B. Koogler, SEA:70:91

Established Surge on an Impervious Vegetated Bed, W. P.J. Wessels, IR1:Mar 68:1:5832

Estimation and Use of Water Production Functions in Crops, Dan Yaron, IR2:June 71:291:8208

Estuaries Need Freshwater, Charles R. Chapman, SEA:70:233

Evaluating Watershed Management Alternativee, Harry E. Brown, IR1:Mar 71:93:7952

Evaluation of Agricultural Drainage in Water Quality Management, T. Clark Lyons, Dwight P. Russell and Roger G. Fry, IR73:Aug 73:529

Evaporation Reduction with Floating Granular Materials, Lloyd E. Myers and Gary W. Frasier, IR4:Dec 70:425:7741

Evaporation Reduction with Reflective Covers, Keith R. Cooley and Lloyd E. Myers, IR3:Sept 73:353:9982

Feasibility of Water Export, Edward Kuiper, HY4:July 68:873:6024

Float Valve Provides Variable Flow Rates at Low Pressures, John L. Merriam, IR73:Aug 73:385

Flow Retardance in Vegetated Channel , Nicholas Kouwen, Tharakkal E. Unny and Harry M. Hill, IR2:June 69:329:6633

Former I&D Chairman Honored, CE:Mar 72:90

Free Overfall As Flow Measuring Device, Sebastian W. Bauer and Walter H. Graf, IR1:Mar 71:73:7987

Frequency of Potential Evapotranspiration Rates in Great Central Plains, Norman J. Rosenberg, IR2:June 72:203:8946

Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73:421:10229

Functions to Predict Optimal Irrigation Programs, J. Ian Stewart, Robert M. Hagan and William O. Pruitt, IR2:June 74:179:10626

Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622

Furrow Irrigation with Decreasing Inflow Rate, Radhey Lal and Amarendra C. Pandya, IR4:Dec 70:451:7748

Future Irrigation Demand in the Susquehanna Basin, Howard Miller, IR4:Dec 68:391:6278

Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438

General Statement of Principles to be Included in State Water Rights Laws, Floyd A. Bishop, Chmn., IR2:June 72:317:8996

Geophysics in Groundwater Exploration, Tsvi Meidav and Jerome S. Nelson, OIDS:72:257

Graphic Relation of Intake Length-of-Run and Time, I-pai Wu and A. Alvin Bishop, IR3:Sept 70:223:7506

Groundwater Control by Pumping, James A. Robertson, Jr., Frank J. Dragoun and Dale W. Sall, IR73:Aug 73:179

Ground Water Management-A Progress Report, Jack J. Coe, IR1:Mar 71:149:7971

Groundwater Model as a Tool in Planning and Management, Robert W. Charley, Edwin V. Lance and G. Morgan Powell, IR73:Aug 73:251

Ground-Water Quality Study, Nikolas F. White and Daniel K. Sunada, IR3:Sept 74:277:10813

High Plains Irrigation and Texas Water Plan, Dan M. Wells, IR1:Mar 71:123:7960

Hydraulics and Uniformity for Drip Irrigation, I-pai Wu and H. M. Gitlin, IR2:June 73:157:9786

Hydrodynamics of Surface Irrigation - Advance Phase, John G. Sakkas and Theodor S. Strelkoff, IR1:Mar 74:31:10422

Hydrogeology of Florida's Largest Citrus Grove, William E. Wilson, IRS:Sept 72:293

Hydrologic Response of Watersheds to Land Use Management, Louis M. Glymph, Heggie N. Holtan and Charles B. England, IR2:June 71:305:8174

Hydrology of Spray-Runoff Wastewater Treatment, Richard E. Thomas, James P. Lae, Jr. and Curtis C. Harlin, IR3:Sept 70:289:7538

Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205

Impacts of Colorado River Salinity, Vernon E. Valantine, IR4:Dec 74:495:10985

Inadvertent Weather and Precipitation Modification by Urbanization, Stanley A. Changnon, Jr., IR1: Mar 73:27:9608

Infiltration Equation in Exponential Forms, Yu-Si Fok, IR4:Dec 67:125:5686

Infiltration Equations from Rate-of-Advance Data, Donald I. Norum and Don M. Gray, IR2:June 70: 111:7331

Infiltration of Water into Nonuniform Soil, Herman Bouwer, IR4:Dec 69:451:6937

Institutional Aspects of Water Management, Edwin S. Haycock, OIDS:72:265

Irrigating with Cut-Back Furrow Streams, John G. Sakkas and William E. Hart, IR1:Mar 68:91:5852

Irrigation Adequacy with Center Pivot Sprinklers, Douglas Anderson and Robert J. Brown, IRS:Sept 72:353

Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973

Irrigation Channel Structures, Victoria, Australia, Keith A. Murley, IR2:June 70:131:7371

Irrigation Development in Bangladesh, Stephen V. Allison and Kazi F. Jalal, IR1:Mar 74:69:10394

Irrigation Engineering and National Goals, William S. Butcher, OIDS:72:13

Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211

Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR73:Aug 73:647

Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR3:Sept 74:321:10822

Irrigation Scheduling from Evaporation Reports, Mel A. Hagood, OIDS:72:533

Irrigation Scheduling on the Minidoka Project, Idaho, Jerry F. Buchheim, OIDS:72:539

Irrigation Scheduling Using Mean Evapotranspiration Rates, Delvin D. Brosz, OIDS:72:561

Irrigation Storage Probabilities of Small Reservoir, Larry A. Kramer, IR4:Dec 74:485:10987

Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3: Sept 72:363:9183

Irrigation Timing to Maximize Economic Crop Yields, Dan Salcedo and W. L. Meier, Jr., OIDS: 72:81

Land Treatment of Food Processing Wastewaters, Louis C. Gilde, IR3:Sept 73:339:10000

Legal and Institutional Constraints in Consolidating Irrigation Systems, George E. Radosevich, OIDS: 72:349

Legal Aspects of Weather Modification, Palmer King, IR3:Sept 69:403:6782

The Lower Mekong Development Program, Leon W. Damours, CE:July 70:58

Management: A Key to Irrigation Efficiency, Leonard J. Erie, IR3:Sept 68:285:6107

Management Structure for Irrigation, Richard A. Smith, IR4:Dec 70:475:7722

Mathematical Model of Leaky Aquifer, Robert Bibby and Daniel K. Sunada, IR3:Sept 71:387:8350

Maximum Potential Evapotranspiration Frequency - East Central U.S., J. L. McGuinness and Leslie H. Parmele, IR2:June 72:207:8943

Mechanical Structures for Farm Irrigation, Allan S. Humpherys, IR4:Dec 69:463:6944

The Metropolis Runs Dry, Richard A. Hogarty, IR4: Dec 71:559:8563

Model For Farm Irrigation in Humid Areas, James S. Windsor, IR3:Sept 71:369:8355

Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779

Modification of Convective Clouds in Northern Plains, Martin R. Schock and Arnett S. Dennis, OIDS:72:373

Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72: 115

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827: 9304

National Hail Research Experiment, William C. Swinbank, OIDS:72:395

Needed - A New Outlook for Irrigation, Ellis L. Armstrong, OIDS:72:1

New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19

New Water for Northern Plains, Richard A. Schleusener, IR1:Mar 70:53:7145

One-Dimensional Infiltration into Layered Soils, Yu-Si Fok, IR2:June 70:121:7343

Operational Experience with Snow Pillows in California, Glenn H. Castel, IR1:Mar 69:105:6444

Operation and Maintenance of an Irrigation District in an Urbanizing Environment, R. E. Moore, D. L. Weesner and T. M. Sabin, IRS:Sept 72:243

Operation and Maintenance of Colorado Aqueduct, Henry J. Mills, IR1:Mar 71:203:8007

Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71: 601:8613

Operation and Maintenance of Irrigation and Drainage Systems, Robert L. Taylor, Chmn., IR3: Sept 73:237:10014

Opportunities for Water Salvage, Lloyd E. Myers, CE:Jan 70:41

Optimal Allocation of Stochastic Water Supply, Warren A. Hall and David T. Howell, IR4:Dec 70: 395:7718

Optimal Design of Furrow Length of Surface Irrigation, I-pai Wu and Tung Liang, IR3:Sept 70: 319:7543

Optimal Irrigation Quantity and Frequency, I-pai Wu and Tung Liang, IR1:Mar 72:117:8776

Optimal Timing of Irrigation, Warren A. Hall and William S. Butcher, IR2:June 68:267:5993

Optimal Utilization of Playa Water in Irrigation, Marvin J. Dvoracek and Theodore G. Roefs, OIDS: 72:597

Optimization of an Existing Large Complex Drainage System, N. N. Khanal and Robert L. Hamrick, OIDS:72:503

Optimizing of Canal Flow in All Seasons, E. L. Hamilton, OIDS:72:521

Optimum Groundwater Level Decline in Eastern Washington, Walter R. Butcher, IRS:Sept 72:291

Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405

Organizational Alternatives in Consolidating Irrigation Systems, Evan Vlachos, OIDS:72:317

Pan Evaporation and Evapotranspiration from Climatic Data, Jerald E. Christiansen, IR2:June 68:243:5988
Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2:June 72:193:8940
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
A Perspective on Weather Control, Richard A. Schleusener, IR1:Mar 68:73:5845
Physics of Desaturation in Porous Materials, Nikolas F. White, Harold R. Duke, Daniel K. Sunada and Arthur T. Corey, IR2:June 70:165:7376
Planning and Interpreting Soil Permeability Measurements, Herman Bouwer, IR3:Sept 69:391:6775
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Planning Profitable Irrigation Investments in Missouri, Herman E. Workman, OIDS:72:491
Policies for Efficient Regional Water Management, W. Charles Howe and Blair T. Bower, IR4:Dec 70:387:7721
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
Predicting Irrigation Requirements of Crops, Wilfredo P. David and Edward A. Hiler, IR3:Sept 70:241:7507
Predicting Return Flows From Irrigation, Patrick A. Hurley, IR1:Mar 68:41:5838
Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939
Probability Distribution of Annual Droughts, Eratakulan S. Joseph, IR4:Dec 70:461:7727
Problems of Water Quality Management in Western River Basin Systems, Arthur F. Pillsbury, IR73:Aug 73:729
Programming for Pavlovsky's Ground-Water Problem, George T. Papadopoulos and Joakim G. Laguros, IR1:Mar 68:49:5840
A Proposed Watershed Retention Function, Willard M. Snyder, IR1:Mar 71:193:7979
Public Irrigation Systems In Puerto Rico, Garcia Rafael Reyes, IR1:Mar 71:109:7953
Public Participation in Planning the St. John River, Desmond M. Connor and Keith T. Bradley, OIDS:72:279
Public Policy Issues in Weather Modification, Dean E. Mann, IR3:Sept 69:375:6772
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2:June 72:275:8964
Rational Design of Wall Screens, Satya P. Garg and Jagroshan Lal, IR1:Mar 71:131:7969
Rational Model Describing Slope Erosion, Dale L. Rowlison and Glen L. Martin, IR1:Mar 71:39:7981
Rectangular Cutthroat Flow Measuring Flumes, Gaylord V. Skogerboe and M. Leon Hyatt, IR:Dec 67:1:5628
Regime Theory Design of Canals with Sand Beds, Thomas Blench, IR2:June 70:205:7381
Remote Photographic Acquisition of Data, E. Gordon Kruse and Meredith L. Payne, TN: IR4:Dec 70:503:7752
Research on Sleepers River at Danville, Vermont, Martin L. Johnson, IR1:Mar 70:67:7184
Responsibility in Weather Modification Operation, Merlin C. Williams and Richard A. Schleusener, IR1:Mar 70:61:7171
Role of Ground Water in Texas Water Plan, Richard C. Peckham, IR1:Mar 68:137:5874
Role of Irrigation in the West's Expanding Economy, Floyd E. Dominy, IR4:Dec 68:401:6281
Role of the Public in Weather Modification, Adrian R. Chamberlain, IR73:Aug 73:171
Salt and Water Balance in Coachella Valley, California, Charles A. Bower, James R. Spencer and L. O. Weeks, IR1:Mar 69:55:6437
Salt Balance, Irrigation Efficiency, and Drainage Design, Herman Bouwer, IR1:Mar 69:153:6465
Salt Penetration Technique for Seepage Measurement, Herman Bouwer and R. C. Rice, IR4:Dec 68:481:6304
Satisfying Water Needs in Southern California, Jack J. Coe, IR2:June 71:233:8193
Scheduling Irrigations Using Climate-Crop-Soil Data, Marvin E. Jensen, David C.N. Robb and C. Eugene Franzoy, IR1:Mar 70:25:7131
Sealing Sands with Waterborne Bentonite, Myron B. Rollins, IR4:Dec 67:25:5640
Sedimentation of Reservoirs, I. C. dos M. Pais-Cuddou and Shri N. C. Rawel, IR3:Sept 69:415:6789
Seepage from Recharge and Landfill Ditches, Paul A. Witherspoon and T. N. Narasimhan, IR73:Aug 73:39
Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875
Self-Closing Irrigation Pipe Valve, Howard R. Haise and Meredith L. Payne, TN: IR3:Aug 72:517:9160
Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443:9212
Shihmen Embankment Dam in Taiwan, China, Shen C. Yuan, Paul E. Bartlett and Chuan C. Feng, IR2:June 67:1:5257
Silver Iodide Generators and Public Health, William J. Douglas, IR3:Sept 70:273:7535
Simulation Model for the Appraisal of Irrigation Projects, Paul Egli, OIDS:72:35
Simulation of Post-Irrigation Moisture Movement, Fred J. Molz, IR4:Dec 72:523:9419
Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415
Simulation of Water Yield from Devegetated Basins, George Fleming, IR2:June 71:249:8175
Simulation of Wind Effects on Sprinkler Performance, Stephen V. Allison and Victor L. Hesse, IR4:Dec 69:537:6978
Simulation Techniques for Water Project Analyses, Milton L. Holloway and Lial F. Tischler, IR3:Sept 74:211:10784
Social and Institutional Aspects of Irrigation and Drainage, Asit K. Biswas, OIDS:72:261
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9:Sept 73:1531:10004
Spillway Stilling Basin Repair Using Bonded Concrete and Epoxy Mortar, James R. Graham, OIDS:72:185
Sprayed Asphalt Pavements for Water Harvesting, Lloyd E. Myers, Gary W. Frasier and John R. Griggs, IR3:Sept 67:79:5413
Stands for Automation Achieved by Sprinkling, Frank E. Robinson, IR3:Sept 69:385:6774
Status of Pilot Watershed Studies in Arizona, Harry E. Brown, IR1:Mar 70:11:7129
Status of Weather Modification in Watershed Management, Merlin C. Williams, IR4:Dec 71:585:8608
Stress Day Index ... A New Concept for Irrigation Timing, Edward A. Hiler, Terry A. Howell and David G. Bordovsky, OIDS:72:579
Subsurface Drainage by Transient-Flow Theory, Lee D. Dumm, IR4:Dec 68:505:6315
Subsurface Hydrograph Analysis by Convolution, Willard M. Snyder and Loris E. Asmussen, IR3:Sept 72:405:9213
Subsurface Irrigation Easily Automated, Sterling Davis and Sheldon D. Nelson, IR1:Mar 70:47:7135
Subsurface Irrigation System Analysis and Design, Yu-Si Fok and Lyman S. Willardson, IR3:Sept 71:449:8380
Surface Irrigation Using the Kinematic-Wave MethoS, Cheng-lung Chen, IR1:Mar 70:39:7134
Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625
Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
Theoretical Irrigation Tailwater Volumes, Ott C. Wilke, TN: IR3:Sept 73:415:9967

Theory and Practice of Public Participation in Planning, Gene E. Willeke, IR1:Mar 74:75:10391
Tools for Water-Resource Study, Julius H. Dawes, IR4:Dec 70:403:7720
Transient Functions for Land Drainage, S. Abdollah Jenab, A. Alvin Bishop and Dean F. Peterson, IR3: Sept 69:361:6768
Trickle Irrigation Design Requirements for Row Crops, Dale A. Bucks, IR73:Aug 73:673
Tunnel Vision or Ecological View, Virginia M. Hines, IR3:Sept 71:397:8368
Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73: 133:9783
Uniform Irrigation with Low-Pressure Trickle Systems, Lloyd E. Myers and Dale A. Bucks, IR3: Sept 72:341:9175
Unique Role of Water in a Developing Economy, Clark N. Crain and David W. Greenman, IR1:Mar 69:79:6439
Use of Runoff Forecasting in Reservoir Operations, Thomas T. Wilson, Jr. and Edib Kirdar, IR3:Sept 70:299:7541
User's View of Weather Modification, Donald Christy, IR73:Aug 73:165
Utilization of Sewage Effluent for Irrigation, Leonard C. Halpenny, IR73:Aug 73:575
Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178
Water Consumption in the Lower Colorado River Valley, O. J. Loeltz and C. C. McDonald, IR1:Mar 69:65:6457
Water Deficits -Irrigation Design and Programming, Robert M. Hagan and J. Ian Stewart, IR2:June 72: 215:8955
Water Infiltration in Hawaiian Sugarcane Furrows, Harlan G. Collins and Robert B. Campbell, IR4: Dec 67:81:5669
Water Management Aspects of Consolidating Irrigation Systems, Gaylord V. Skogerboe, OIDS: 72:293
Water Management Through Irrigation and Drainage: Progress, Problems, and Opportunities, by the Committee on Research of the Irrigation and Drainage Division, Jan van Schilfgaarde, Chmn., IR2:June 74:153:10619
Water-Quality Management in Irrigation Systems, Gerald T. Orlob and Philip C. Woods, IR2:June 67: 49:5280
Water-Table Fluctuation in Response to Recharge, Miguel A. Marino, IR2:June 74:117:10582
Water Use and Production of Trickle Irrigated Onions, Theodore C. Patterson, IR73:Aug 73:317
Water-Yield Relations for Nonforage Crops, Lloyd A. Downey, IR1:Mar 72:107:8772
Weather Information and Irrigation Scheduling - I. Weather and Irrigation Demand, Wayne L. Decker, OIDS:72:65
Weather Modification and People, Robert G. Beebe, OIDS:72:435
Weather Modification for Use in High Plains, Richard A. Schleusener and J. R. Miller, Jr., IR3: Sept 74:339:10816
Weather Modification Regulation, Richard A. Schleusener, IR3:Sept 70:281:7537
Weed Control in Arid Southwest, James W. Kirby and A. Darrell Summers, IR4:Dec 71:571:8570
Well Capacity for Continuous Permeability Variation, Raymond J. Krizek, Wallace H. Baker and Arley G. Franklin, IR3:Sept 69:409:6785
Wellton-Mohawk Drainage and the Mexican Salt Problem, Clifford C. Tabor, IR73:Aug 73:285
Wet-Wells Volumes for Multipump Systems, Gunther Goldschmidt, IR3:Sept 74:371:10830
Wind Variation and Sprinkler Water Distribution, Ido Seginer, IR2:June 69:261:6594

Irrigation Canals
Controlling Salinity by Lining Distribution System, Wynn R. Walker, IRS:Sept 72:113
Distribution Channels with Multiple Outlets, William E. Hart and John Borrelli, IR2:June 72:267:8976
Irrigation Channel Structures, Victoria, Australia, Keith A. Murley, IR2:June 70:131:7371
Managing Canal System for Water Quality Control, Thomas L. Huntzinger and James H. Taylor, IRS: Sept 72:171
Role of Water Delivery System in Water Quality, Gaylord V. Skogerboe, IRS:Sept 72:101
Sediment Routing in Irrigation Canal Systems, Khalid Mahmood, IR1:Mar 74:49:10401
Similarity in Unlined Irrigation Canal Systems, Kenneth V.H. Smith, HY1:Jan 70:13:6993

Irrigation Design
Research Topics for Small Irrigation Structures, Gaylord V. Skogerboe, Wynn R. Walker, Brent B. Hacking and Lloyd H. Austin, IR3:Sept 70:309: 7542

Irrigation Ditches
Deterioration of Concrete Ditch Liners in Saline-Alkali Soil, Luther B. Grass and Paul Koluvek, IR4: Dec 74:477:10997

Irrigation Effects
Optimal Utilization of Playa Water in Irrigation, Marvin J. Dvoracek and Theodore G. Roefs, OIDS: 72:597
Weather Modification for Alaska Fire Control, James W. Franks, OIDS:72:423

Irrigation Efficiency
Alfalfa Water Table Investigations, Rhys Tovey, IR4: Dec 69:525:6974
Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957
Hydraulics and Uniformity for Drip Irrigation, I-pai Wu and H. M. Gitlin, IR2:June 73:157:9786
Importance of Flow Measurement in Water Control, W. Roger Walker, IRS:Sept 72:131
Irrigation Scheduling from Evaporation Reports, Mel A. Hagood, OIDS:72:533
Irrigation Scheduling Using Mean Evapotranspiration Rates, Delvin D. Brosz, OIDS:72:561
Legal and Institutional Constraints in Consolidating Irrigation Systems, George E. Radosevich, OIDS: 72:349
Scheduling Irrigations Using Climate-Crop-Soil Data, Marvin E. Jensen, David C.N. Robb and C. Eugene Franzoy, IR1:Mar 70:25:7131
Simulation of Wind Effects on Sprinkler Performance, Stephen V. Allison and Victor L. Hesse, IR4:Dec 69:537:6978
Stress Day Index ... A New Concept for Irrigation Timing, Edward A. Hiler, Terry A. Howell and David G. Bordovsky, OIDS:72:579

Irrigation Engineering
Irrigation Engineering and National Goals, William S. Butcher, OIDS:72:13
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Research Topics for Small Irrigation Structures, Gaylord V. Skogerboe, Wynn R. Walker, Brent B. Hacking and Lloyd H. Austin, IR3:Sept 70:309: 7542
Well Efficiency and Skin Effect, Yaron M. Sternberg, TN: IR2:June 73:203:9766

Irrigation Operation " Maintenance
Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211

Irrigation Practices
Development of Automation on Salt River Project, Henry Shipley, IR2:June 70:151:7373
Economics of a Water-Yield Function for Sugar Cane, Howard C. Hogg, Jack R. Davidson and Jen-hu Chang, IR1:Mar 69:127:6448
Graphic Relation of Intake Length-of-Run and Time, I-pai Wu and A. Alvin Bishop, IR3:Sept 70:223: 7506
Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973

Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR73:Aug 73:647
Irrigation Practices in Desert Regions of Chile, Wulf Klohn, IRS:Sept 72:211
Irrigation Scheduling on the Minidoka Project, Idaho, Jerry F. Buchheim, OIDS:72:539
Operation and Maintenance of an Irrigation District in an Urbanizing Environment, R. E. Moore, D. L. Weesner and T. M. Sabin, IRS:Sept 72:243
Predicting Irrigation Requirements of Crops, Wilfredo P. David and Edward A. Hiler, IR3:Sept 70:241:7507
Water Requirements of Rostered Irrigation Schemes, Patrick D. Fitzgerald and Gregory C. Arnold, IR1:Mar 72:91:8767

Irrigation Programs
Managing Canal System for Water Quality Control, Thomas L. Huntzinger and James H. Taylor, IRS:Sept 72:171
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625

Irrigation Systems
Agriculture and the City, Warren A. Hall, IR73:Aug 73:1
Art of Agricultural Drainage Design and Costs, Ralph L. Toren, IR73:Aug 73:557
Automation of an Existing Irrigation System - Part I, Richard G. Ericsen, IR73:Aug 73:369
Basic Principles of Pulse Irrigation, David Karmeli and Gideon Peri, IR3:Sept 74:309:10831
Development of Large Scale Drip Irrigation Systems, Benjamin R. Olson, Jr., IR73:Aug 73:311
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
Float Valve Provides Variable Flow Rates at Low Pressures, John L. Merriam, IR73:Aug 73:385
Hydraulics and Uniformity for Drip Irrigation, I-pai Wu and H. M. Gitlin, IR2:June 73:157:9786
Irrigation Scheduling on the Minidoka Project, Idaho, Jerry F. Buchheim, OIDS:72:539
Irrigation Scheduling Using Mean Evapotranspiration Rates, Delvin D. Brosz, OIDS:72:561
Irrigation Timing to Maximize Economic Crop Yields, Dan Salcedo and W. L. Meier, Jr., OIDS:72:81
Land Application of Treated Sewage, Kneeland A. Godfrey, Jr., CE:Sept 73:103
Legal and Institutional Constraints in Consolidating Irrigation Systems, George E. Radosevich, OIDS:72:349
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72:115
Operation and Maintenance of Irrigation and Drainage Systems, Robert L. Taylor, Chmn., IR3:Sept 73:237:10014
Organizational Alternatives in Consolidating Irrigation Systems, Evan Vlachos, OIDS:72:317
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195
Planning Profitable Irrigation Investments in Missouri, Herman E. Workman, OIDS:72:491
Rehabilitation of Irrigation System, Ray S. Bennett and Charles F. Lurvey, IRS:Sept 72:151
Trickle Irrigation Design Requirements for Row Crops, Dale A. Bucks, IR73:Aug 73:673
Utilization of Sewage Effluent for Irrigation, Leonard C. Halpenny, IR73:Aug 73:575
Water Management Aspects of Consolidating Irrigation Systems, Gaylord V. Skogerboe, OIDS:72:293
Water Use and Production of Trickle Irrigated Onions, Theodore C. Patterson, IR73:Aug 73:317
Weather Information and Irrigation Scheduling - I. Weather and Irrigation Demand, Wayne L. Decker, OIDS:72:65

Irrigation Water
Agriculture and the City, Warren A. Hall, IR73:Aug 73:1
Cultural Influences on Irrigation Drainage Water, J. R. Busch, D. W. Fitzsimmons, G. C. Lewis, D. V. Naylor and R. D. Carlson, IRS:Sept 72:45
Optimal Conjunctive Use Model for Indus Basin, Mohammad T. Chaudhry, John W. Labadie, Warren A. Hall and Maurice L. Albertson, HY5:May 74:667:10550

Islands
Water Quality and Effluent Standards of Hawaii, Gordon L. Dugan, Reginald H.F. Young and L. Stephen Lau, HY9:Sept 74:1245:10824

Isotropy
Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626
Buckling Of Orthotropic Hyberbolic Paraboloid Shells, Peter Gergely, TN: ST1:Jan 72:395:8619
A Model for Computation of Stratified Turbulent Flow, J. L. Lumley, ISSF:Aug 72:335
Torsion of Nonhomogeneous Anistropic Bars, Somasundaram Valliappan and V. Pulmano, TN: ST1:Jan 74:286:10264
Wave Propagation in Transversely Isotropic, Layered Cylinders, Henry E. Keck and Anthony E. Armenakas, EM2:Apr 71:541:8071

Israel
An American Engineer in Israel, Irving Kett, CE:June 72:63
Artificial Ground-Water Recharge by Means of Wells in Israel, Yoav Harpaz, HY12:Dec 71:1947:8579
Needed - A New Outlook for Irrigation, Ellis L. Armstrong, OIDS:72:1

Italy
An Alternative Interpretation of the Vaiont Slide, Kwan Y. Lo, C. F. Lee and P. Gelinas, RM13:72:595
Concrete Dam Construction Practices, Marcello Garavaglia, ECCD:72:467
Notes on The Construction Of The Alpe Gera Dam, Guilio Gentile, RCCD:70:349
Opening Remarks, E. Montford Fucik, ECCD:72:395
Problems with Large Underground Stations in Italy, Morando Dolcetta, URC:72:243
Summary of Session V -- Foreign Practices in Concrete Dam Construction, James E. Bennett, ECCD:72:477
Use of Shotcrete for Tunnelling in Difficult Grounds, Pericle Quadrio Curzio, Glauco Barazzoni, Fiorenzo Nobili and Alessio Anselmi, SUSS:July 73:79
Venice is Sinking into the Sea, Carlo Berghinz, CE:Mar 71:67

Iteration
Finite Element Analysis of Slabs on Elastic Solids, Yang H. Huang, TE2:May 74:403:10535
Nonlinear Analysis of Space Trusses, Ahmed K. Noor, ST3:Mar 74:533:10419
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128
Stiffness-Analysis of Cable-Stayed Bridges, Benjamin E. Lazar, ST7:July 72:1605:9036
Structural Optimization by Inscribed Hyperspheres, Roman Baldur, EM3:June 72:503:8934

Jackets
Eads Bridge Repaired by Jacking, Bernard H. Spinner, CE:June 71:50

Jacking
Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62

Jamming

Shear Strength Of Sand At Extremely Low Pressures, V. Miguel Ponce and James M. Bell, SM4:Apr 71:625:8062

Japan

A Civil Engineer's Guide to EXPO 70, Shunta Shiraishi and Yuzo Matsui, CE:Mar 70:43

Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87

Earthquake-proof Design Gives Rise to First Japanese Skyscrapere, Kiyoshi Muto, CE:Mar 71:49

High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067

Hydraulic Model Experiment On Waste Diffusion In Tokyo Bay, Tonia Eemura, Masamitsu Onitsuka, Hiroshi Fukao and Fumio Yamaguchi, CEO-II:70:247

Japan Develops Water Pollution Control Technology, Takeshi Goda and Hisashi Sumitomo, CE:Nov 71:42

Japanese Structural Standards for Reinforced Concrete Buildings, Masahide Tomii, TB:73:III-20-125

Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569

Model Study of Transformation of Tsunamis in Urado Bay, Shigehisa Nakamura, Yuichi Iwagaki and Yoshito Tsuchiya, 12CEC:71:2089

Overloads on Japan's 130 mph Railroad Structures, Tatsuo Nishiki and Shunta Shiraishi, ST6:June 70:1017:7325

Rail Tracks for Japan's 130-mph Trains, Kentaro Matsubara, CE:Dec 69:32

Replacement-Lock and Dam No. 26: History, Objectives and Scope, Edwin R. Decker, WW1:Feb 70:1:7070

Researches on Sea-Walls, Shoshichiro Nagai, 12CEC:71:1431

Structural Design of Fukushima No. 6 and Tokai No. 2 Nuclear Power Plants, Hsiang-Sheng Chang, SDNPF:Dec 73:391

Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, Yoshiaki Iwasa and Kazuya Inoue, ISSF:Aug 72:237

Variation of Topography of Sea-bed Caused by the Construction of Breakwaters, Shoji Sato and Isao Irie, 12CEC:71:1301

Jet Aircraft

Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891

Jet Flow

Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675

Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378

Heated Surface Jets in a Steady Crosscurrent, Robert W. Zeller, John A. Hoopes and Gerard A. Rohlich, HY9:Sept 71:1403:8385

Heated Water Jet in Coflowing Turbulent Stream, Mostafa A. Shirazi, Raul S. McQuivey and Thomas N. Keefer, HY7:July 74:919:10661

Jet-Induced Circulation and Diffusion, Constantin Rouse, HY2:Mar 69:589:6445

Mean and Turbulent Velocities for Plane Jet, Walter C. Mih and John A. Hoopes, HY7:July 72:1275:9050

Space Correlations in Round Turbulent Jet, Sedat Sami, HY3:May 69:907:6565

Steam Jet Force Decay, R. H. Greenwood, SDNPF:Dec 73:591

Surface Disturbance from Submerged Jet, Norbert L. Ackermann, Rafael T. Apostol and Suvit Siriyong, HY7:July 71:937:8236

Jet Mixing Flow

Space Correlations in Round Turbulent Jet, Sedat Sami, HY3:May 69:907:6565

Surface Jet at Small Richardson Numbers, Frank Engelund and Flemming Bo Pedersen, HY3:Mar 73:405:9588

Jet Pumps

Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177:9794

Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73:589

Two-Dimensional Analysis of Flow in Jet Pumps, Barry J. Hill, HY7:July 73:1009:9847

Jets

Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291

Appearance of Unstable Buoyant Jet, Habib O. Anwar, HY7:July 72:1143:9012

Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675

Behavior of Buoyant Jet in Calm Fluid, Habib O. Anwar, HY4:July 69:1289:6688

Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678

Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555

Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613

Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948

Flow-Induced Vibrations of Trashrack Bars, Joseph W. Fortey and Robert F. Tiry, CE:May 72:44

Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897:10119

Forces From Submerged Jets, Norbert L. Ackermann and Rodolfo Undan, HY11:Nov 70:2231:7675

Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273

Free Streamline Analysis of Two-Dimensional Jet, Anat Arbhabhirama, HY4:July 69:1139:6658

Heated Surface Jets in a Steady Crosscurrent, Robert W. Zeller, John A. Hoopes and Gerard A. Rohlich, HY9:Sept 71:1403:8385

Horizontal Surface Discharge of Warm Water Jets, Nobuyuki Tamai, Robert L. Wiegel and Gordon F. Tornberg, PO2:Oct 69:253:6847

Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, HY11:Nov 72:1983:9372

Impinging Circular Turbulent Jets, Spyridon Beltaos and Nallamuthu Rajaratnam, HY10:Oct 74:1313:10852

Jet-Forced Circulations in Water-Supply Reservoirs, Rodney J. Sobey and Stuart B. Savage, HY12:Dec 74:1809:11026

Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3

Model Study of Dense Jet in Flowing Fluid, Forrest M. Holly, Jr. and John E. Grace, Jr., HY11:Nov 72:1921:9365

Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469

P-Function Approximations For Jet Momentum Flux, W. Hall C. Maxwell and Kuo- Cheng Chang, TN:EM4:Aug 72:1011:9082

Plane Turbulent Reattached Wall Jets, Nallamuthu Rajaratnam and Kanakatti Subramanya, HY1:Jan 68:95:5724

Power Law Solutions for Vertical Plumes, Richard R. Brock, HY9:Sept 70:1803:7523

Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663

Steam Jet Force Decay, R. H. Greenwood, SDNPF:Dec 73:591

Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
Swirling Shallow Submerged Turbulent Plumes, Jai P. Narain, HY9:Sept 74:1229:10820
Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942
Three-Dimensional Turbulent Wall Jets, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY1:Jan 74:69:10294
Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY7:July 72:1101:9009
Turbulent Entrainment in Buoyant Jets and Plumes, E. J. List and Jorg Imberger, HY9:Sept 73:1461:9992
Unsteady Spread of Buoyant Surface Discharge, James J. Sharp, HY9:Sept 71:1471:8396
Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999

Jetties
Coastline Changes Near a Tidal Inlet, Emmanuel Partheniades and James A. Purpura, CE13:72:II-843
Estuary Inlet Channel Stabilization Study Using A Hydraulic Model, Theodore T. Lee, 12CEC:71:1117
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696
New Shape in Shore Protection, Greer E. Coursey, CE:Dec 73:68
On Wave Damping in Harbors, Charles E. Lee, WW4:Nov 68:489:6241
Simulation of Piers in Hydraulic Models, David J. Ball, WW1:Feb 74:23:10313

Job Satisfaction
Construction Productivity and Job Satisfaction, John D. Borcherding and Clarkson H. Oglesby, CO3:Sept 74:413:10826
A Word With The Executive Director About. . . The Quality of Personal Success, William H. Wisely, CE:June 71:37

Joint Operations
Book Review: Joint Ventures For Architects And Engineers, William D. Alexander, CE:Aug 73:30
Is Joint Development the Chicken, or the Egg?, Constantine Sidamon-Eristoff, TE3:Aug 71:469:8315

Joints (Connections)
Analysis of T-Stub Flange-to-Column Connections, Ben Kato and William McGuire, ST5:May 73:865:9725
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48
Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
Design Limitations for Fatigue, State-of-Art Report 5, Takeo Naka, TB:73:II-18-771
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72:2541:9345
Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5:May 72:989:8874
High Cycle Fatigue of Connections and Details, State-of-Art Report 4, John W. Fisher and T. R. Gurney, TB:73:II-18-757
Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73:III-27-981
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Pavement Joint Seals, Kneeland A. Godfrey, Jr., CE:Mar 72:42
Shear Lag Analysis of Rectangular Full-Width Tube Junctions, Bharat L. Mehrotra and Ashok K. Govil, ST1:Jan 72:287:8665
Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, Alexander Popoff, Jr., TB:73:III-23-571
Strength of Square-Tube Connections Under Combined Loads, Roger L. Brockenbrough, ST12:Dec 72:2753:9425
Warping and Distortion at I-Section Joints, Porpan Vacharajittiphan and Nicholas S. Trahair, ST3:Mar 74:547:10390
Welded Connections under Combined Shear and Moment, John L. Dawe and Geoffrey L. Kulak, ST4:Apr 74:727:10457

Joints (Geology)
An Approach to the Stability of Rock Slopes Based on the Theory of Limiting Equilibrium with a Material Exhibiting Anisotropic Shear Strength, J. E. Jennings, RM13:72:269
Cumulative Sums Technique: A New Approach to Analyzing Joints in Rocks, Douglas R. Piteau and Lindsay Russell, RM13:72:1
Discrete Element Techniques for Rock Slope Analysis, K. C. Ko, RM13:72:183
Duplication of Dilatancy in Analysis of Jointed Rocks, Richard E. Goodman and Jacques Dubois, SM4:Apr 72:399:8853
Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095
Fracture Evaluation by the Borehole Logging Method, John I. Myung and R. W. Baltosser, RM13:72:31
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
A Monte Carlo Approach to Seepage in Jointed Rock, William E. Kelly, RM13:72:227
On Model Studies for Tunnels in Jointed Rock, Richard E. Goodman, Francois E. Heuze and Gilles J. Bureau, RM14:73:441
Open Pit Mine Slope Stability: The Berkeley Pit, William G. Pariseau and Koehler Stout, RM13:72:367
Three-Dimensional Approach for Design of Cuts in Jointed Rock, Francois E. Heuze and Richard E. Goodman, RM13:72:397

Joints (Junctions)
Analysis of Frames with Partial Connection Rigidity, Karl M. Romstad and Chittoor V. Subramanian, ST11:Nov 70:2283:7664
Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
Analytical Study of Tubular Tee-Joints, Alexander C. Scordelis and Jack G. Bouwkamp, ST1:Jan 70:65:7016
Auxiliary Reinforcement in Concrete Connections, Robert F. Mast, ST6:June 68:1485:6002
Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
Bolted Joints Under Sustained Loading, Verl Lobb and Floyd Stoller, ST3:Mar 71:905:7996
Cast-in-Place Joints for Tall Concrete Buildings, State-of-Art Report 3, James O. Jirsa, TB:73:III-21-191
Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327
Dynamic Analysis of Multibay Multistory Frames, Masaaki Suko and Peter F. Adams, ST10:Oct 71:2519:8443
Dynamic Response of Frames with Nonrigid Connections, Steve R. Lionberger and William Weaver, Jr., EM1:Feb 69:95:6393
Effect of Surface Coatings and Exposure on Slip, James H. Lee, Colin O'Connor and John W. Fisher, ST11:Nov 69:2371:6889
Elastic Analysis of Frameworks with Elastic Connections, Edgar Lightfoot and Andrew P. Le Messurier, ST6:June 74:1297:10632
Graphical Stability Analysis of Slopes in Jointed Rock, Klaus W. John, SM2:Mar 68:497:5865
High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410
High Strength Bolts Subject to Tension and Prying, Rajasekharan S. Nair, Peter C. Birkemoe and William H. Munse, ST2:Feb 74:351:10373

Influence of Details on Fatigue Behavior of Structures, Harold Mindlin, ST12:Dec 68:2679:6286
Joints, Precast Panel Buildings, State-of-Art Report 2, Bohdan Lewicki and Adrian Pauw, TB:73:III-21-171
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
Large Bolted and Riveted Shingle Splices, John W. Fisher and Noriaki Yoshida, ST9:Sept 70:1903:7534
Moment-Resistance Connections in Precast Concrete, Emile Langlois and Joseph Menec, Jr., ST12:Dec 69:2723:6947
Seismic Resistance of Concrete Frames with Grade 60 Reinforcement, Norman W. Hanson, ST6:June 71:1685:8180
Shear Lag Analysis of Rectangular Full-Width Tube Junctions, Bharat L. Mehrotra and Ashok K. Govil, ST1:Jan 72:287:8665
Simply Supported Rectangular Double-Layered Grids, M. J.L. Hussey, A. I. Tarza and W. F.D. Theron, ST3:Mar 71:753:7954
Spaced Steel Columns, Bruce G. Johnston, ST5:May 71:1465:8109
Specifications and Design Relations, R. S. Fountain, William H. Munse and R. D. Sunbury, ST12:Dec 68:2751:6291
Strength of a Model of Jointed Rock, Edwin T. Brown and David H. Trollope, SM2:Mar 70:685:7185
Stress Waves at Rigid Right Angle Joint, James A. Mandel, Rajendra K. Mathor and Yuan C. Chang, EM4:Aug 71:1173:8316
Surface Treatment of High-Strength Bolted Joints, George C. Brookhart, I. H. Siddiqi and Desi D. Vasarhelyi, ST3:Mar 68:671:5851
Theoretical Lateral Resistance of Nailed Joints, Thomas Lee Wilkinson, ST5:May 71:1381:8121
Ultimate Capacity of Single Bolted Angle Connections, John B. Kennedy and George R. Sinclair, ST8:Aug 69:1645:6721

Joint Sealers
Pavement Joint Seals, Kneeland A. Godfrey, Jr., CE:Mar 72:42

Joists
Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt, James R. Goodman and Marvin E. Criswell, ST1:Jan 74:11:10274
Strength of Models of Rock with Intermittent Joints, Edwin T. Brown, SM6:Nov 70:1935:7697

Journalism
Engineers and the Public Press, William H. Wisely, CE:Dec 69:31

Judgment
Experience in Teaching Engineering Judgment by Case Histories in Foundation Engineering, Ralph B. Peck and Herbert O. Ireland, CEE:Feb 74:1-187

Junctions
Effect of Pipeline Junctions on Water Hammer Surges, Don J. Wood and Shen P'eng Chao, TE3:Aug 71:441:8296
Energy Losses at 90° Pipe Junctions, H. Ito and K. Imai, HY9:Sept 73:1353:10022
Junction Losses in Laminar and Transitional Flows, Donald K. Jamison and James R. Villemonte, HY7:July 71:1045:8258
Structural Aspects of the Lindheimer Astronomical Observatory, S. Hal Iyengar, CE:Mar 69:71

Kansas
The Flood Management Project for Atchison, Kansas, Bernard T. Pierce, IAWM:72:209
Gate Arrival Terminal for Kansas City MCI Airport, Edwin Joe Runyan, TE2:May 69:229:6532
A Success Story - Kansas City Engineering Evening Graduate Program (Discussion), Melford E. Monsees, CEE:Feb 74:2-320

Kaolin
Secondary Compression in the Shear of Clays, Leonard K. Walker, SM1:Jan 69:167:6348

Kaolinite
Shearing Strength of Kaolinite, Illite, and Montmorillonite, Roy E. Olson, GT11:Nov 74:1215:10947
Strength of Compacted Clay at High Pressure, Kenneth L. Lee and Steven C. Haley, SM6:Nov 68:1303:6239
Strength of Compacted Clay at High Pressure, Kenneth L. Lee and Steven C. Haley, PISST:71:345

Kentucky
BS-CET Program at Western Kentucky University, Boyce D. Tate, CEE:Feb 74:1-244
Citizens Fidelity Bank, Welton Becket and Associates, TB:73:C-P-330
Crestline Apartments, Grigalis & Associates, TB:73:C-P-458
An Innovative A.S.C.E Student Chapter Structure, Vincent P. Drnevich, CEE:Feb 74:1-988

Kenya
Government Offices and Conference Center (Nairobi), Gordon Melvin & Partners, TB:73:C-P-436

Keys (Splines)
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376

Keywords
Technical Information Retrieval, Harold W. Conner and J. Nieves, CE:Nov 69:47

Kinematics
Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
Nonisothermal Kinematic Hardening Law in Plasticity, Tse Yung Chang, TN: EM2:Apr 73:423:9641
Subcritical Kinematic Flow in a Stable Stream, William J. Gburek and Donald E. Overton, HY9:Sept 73:1433:10026

Kinetics
Kinetic Analysis of Data from Biological Systems, Robert L. Irvine and Donald J. Schaezler, SA4:Aug 71:409:8323
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72:1021:9430

Laboratories
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165:9768
Sealing Sands with Waterborne Bentonite, Myron B. Rollins, IR4:Dec 67:25:5640
Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728

Laboratory Tests
Activated Sludge ATP: Effects of Environmental Stress, Patrick L. Brezonik and James W. Patterson, SA6:Dec 71:813:8581
Consideration on Factors in Breakwater Model Tests, Yvon Ouellet, CE13:72:III-1809
Control of Deformation Rates in Soil Testing, Roy E. Olson, Vincent J. McDonald and James N. Sterner, TN: SM1:Jan 71:283:7787
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10:Oct 73:1659:10070
Development of a Shallow-Water Wave Direction Gage, R. J. Hallermeier and William R. James, WAVES:Sept 74:696

Equilibrium Conditions in Beach Waye Interactioe, Harihar Raman and John J. Earattupuzha, CE13:72:II-1237
Experiments in Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, SM11:Nov 73:957:10161
Experiments on Bed Form Generation by Wave Action, Geoffrey R. Mogridge and J. William Kamphuis, CE13:72:II-1123
Flushing Characteristics of Small-Boat Marinas, Ronald E. Nece and Eugene P. Richey, CE13:72:III-2489
Hydraulically Ventilated Underground Filter, David K. Hills and Ray B. Krone, SA6:Dec 71:851:8596
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, NSCD:71:365
Influence of Free CO_2 on Q_{10} for Chlorella vulgaris, John T. Novak and H. David Sanders, TN: EE3:June 74:798:10571
Laboratory Experiments with Surface Runoff, Ivan Muzik, HY4:Apr 74:501:10463
Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3:Mar 72:489:8765
Laboratory Tests of Longshore Transport, John C. Fairchild, 12CEC:71:867
Laboratory Tests on Artificial Seaweed, W. A. Price, K. W. Tomlinson and D. H. Willis, 12CEC:71:995
Longshore Transport of Suspended Sediment, John C. Fairchild, CE13:72:II-1069
Macro-Turbulence From Wind Waves, Chin-Yuan Lee and Frank D. Masch, 12CEC:71:223
The Measurement of Offshore Shingle Movement, Maurice J. Crickmore, C. B. Waters and W. A. Price, CE13:72:II-1005
The Nile Delta Coastal Protection Project, Ismail E. Mobarek, CE13:72:II-1409
Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213
A Possible 1-Point System Method For Laboratory Compaction Testing, John J. Galvan, CE:Mar 72:78
Predicting Changes in the Plan Shape of Beaches, W. A. Price, K. W. Tomlinson and D. H. Willis, CE13:72:II-1321
Recession Flow in Surface Irrigation, I-pai Wu, IR1:Mar 72:77:8764
Rock Mechanics Studies for Mossyrocky Arch Dam, David E. Kleiner and Richard C. Acker, PO1:Jan 71:11:7795
Scale Effects of Wave Transmission Through Permeable Structures, Richard C. Delmonte, CE13:72:III-1867
Scale Selection for Mobile Bed Wave Models, J. William Kamphuis, CE13:72:II-1173
Selection of Chemical Grout for Mattmark Dam, Herbert H. Einstein and Gerold Schnitter, SM6:Nov 70:2007:7684
Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977
Shear Strength of Flat Surfaces in Rock, James H. Coulson, RM13:72:77
Similarity of Equilibrium Beach Profiles, M. J. Paul, J. William Kamphuis and A. Brebner, CE13:72:II-1217
Specimen Preparation and Liquefaction of Sands, Richard S. Ladd, TN: GT10:Oct 74:1180:10857
Studies on Anchored Flexible Walls in Sand, Thomas H. Hanna and Ibrahim I. Kurdi, GT10:Oct 74:1107:10854
Study of Clay Shale Slopes, Don C. Banks, RM13:72:303
Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501
Suspended Sediment and Longshore Sediment Transport Data Review, Madan M. Das, CE13:72:II-1027
Time Effects on Dynamic Shear Modulus of Clays, William F. Marcuson, III and Harvey E. Wahls, SM12:Dec 72:1359:9442
Velocity and Temperature in Buoyant Jet, Richard B. Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219
Wave Forces on Submerged Pipe Lines, Ernest F. Brater and Roger Wallace, CE13:72:III-1703
Wave-Induced Pressures in Beds of Sand, John F. A. Sleath, HY2:Feb 70:367:7057

Labor Costs
Concrete Dam Design and Construction Improvements, Ellis L. Armstrong, ECCD:72:3
Labor Cost Control, Paul Teicholz, CO4:Dec 74:561:11020

Labor Relations
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
Engineer Firms Face Unionization, Larry N. Spiller, CE:Apr 71:49
Masonry Construction Operations, Clayford T. Grimm, CO2:June 74:171:10630
Open-Shop Movement Slithers Into Construction Contracting, Robert N. Olsen, CE:Nov 71:40

Labor Unions
Engineers and the Public Press, William H. Wisely, CE:Dec 69:31
Open-Shop Movement Slithers Into Construction Contracting, Robert N. Olsen, CE:Nov 71:40

Lagoons (Landforms)
Wind-Induced Circulation in Shallow Water, Henry Liu and Himerio J. Perez, HY7:July 71:923:8235

Lagoons (Ponds)
Evaluation of Some Stabilization Ponds in India, R. H. Siddiqi and B. K. Handa, SA1:Feb 71:91:7912
Lagoons for Military Sewage Treatment in South Vietnam, David M. Duttweiler and John A. Burgh, CE:May 69:47
Loading Rates on Waste Stabilization Ponds, Larry W. Carter, Andrew Englande, Jr. and Alfred F. Mauldin, Jr., SA6:Dec 69:1117:6975
A Numerical Model for the Hydrodynamics of Lagoons, Jacobus van de Kreeke, CE13:72:III-2241

Lagrangian Functions
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178
Lagrangian Formulation of Sandwich Shell Theory, Peter G. Glockner and David. J. Malcolm, EM3:June 73:445:9775
Lagrangian Formulation of Statics of Shells, J. P. Shrivastava and Peter G. Glockner, EM5:Oct 70:547:7584
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266

Laitance
Developments in Cement Technology, George Verbeck, ECCD:72:33
Use of Curing Compounds on Horizontal Construction Joints, James R. Graham, ECCD:72:55

Lake Ontario
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145

Lakes
Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71:321:8545
Cell Method for Computing Lake Circulation, James A. Liggett, HY3:Mar 70:725:7152
Circulation in Shallow Homogeneous Lakes, James A. Liggett and Christos Hadjitheodorou, HY2:Mar 69:609:6454

Computation for Circulation in Stratified Lakes, Kwang K. Lee and James A. Liggett, HY10:Oct 70:2089:7634
Computation of Storm Surge, Richard Silvester, 12CEC:71:1995
Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367:10227
Dissolved Oxygen Variations in Stratified Lakes, David A. Bella, SA5:Oct 70:1129:7628
Diversion of Wastewater from Madison Lakes, William C. Sonzogni and G. Fred Lee, EE1:Feb 74:153:10318
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Finite Element Shallow Lake Circulation Analysis, Richard H. Gallagher, James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855
Heated Discharge from Flume into Tank, Heinz Stefan and Frank R. Schiebe, SA6:Dec 70:1415:7762
Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, HY11:Nov 72:1983:9372
Influences of Sedimentation on Water Quality: An Inventory of Research Needs, Robert H. Livesey, Chmn., HY8:Aug 71:1203:8325
Montana Highway and Wildlife Professions Cooperate, John C. Peters, CE:Nov 70:58
Nutrients And Aquatic Vegetation Effects, G. Wolfgang Fuhs, EE2:Apr 74:269:10453
Oxygen Depletion Model for Cayuga Lake, J. Denis Newbold and James A. Liggett, EE1:Feb 74:41:10346
Power Optimization for Prescribed Thermal Pollution, Amir N. Nahavandi and Michael Pappas, PO3:July 71:631:8254
Properties of Circulation in Stratified Lakes, James A. Liggett and Kwang K. Lee, HY1:Jan 71:15:7793
Residential Community Features Novel Dam and Sewer, Robert B. Balter, CE:May 73:46
Stratification of Flow from Channel into Deep Lake, Heinz Stefan, HY7:July 70:1417:7401
Students Revitalize On-Campus Lake, John G. Gonzales and Paul A. Ferrari, CE:June 71:38
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
Swampy Site Turned into Prize-Winner, James L. Hart, CE:June 73:82
Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, PO2:Nov 73:349:10150
Unsteady Circulation in Shallow, Homogeneous Lakes, James A. Liggett, HY4:July 69:1273:6686
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433

Lamellar Structure
Lamellar Tearing of Welded Steel, CE:Dec 73:34

Laminar Flow
Appearance of Unstable Buoyant Jet, Habib O. Anwar, HY7:July 72:1143:9012
Free Streamline Analysis of Two-Dimensional Jet, Anat Arbhabhirama, HY4:July 69:1139:6658
Laminar Flow Between Porous Rotating Disks, Abdel F. Elkouh, EM4:Aug 68:919:6069
New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956
Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11:Nov 72:2015:9370
Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533

Laminated Wood
Design of Wood Columns for Flexural and Axial Loading, German R. Gurfinkel, ST11:Nov 70:2389:7701
FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779
Laminated Timber Used in High-Rise Mill Building, L. Elvin Gower, CE:Dec 71:40
Layered Beam Analysis, George W. Swift and Robert A. Heller, EM2:Apr 74:267:10484
Residual Stresses in Curved Laminated Wood Beams, John J. Zahn, ST12:Dec 69:2873:6977

Laminates
Analysis of Laminated Curved Beams, Antone F. Sayegh and Stanley B. Dong, EM4:Aug 70:471:7495
Analytical and Experimental Methods in Composite Mechanics, James M. Whitney, ST1:Jan 73:113:9477
Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73:655:9653
Flexural Vibrations of Laminated Plate, Jan D. Achenbach and Tony R. Zerbe, EM3:June 71:619:8181
Thin Laminates with Homogeneous Elastic Properties, Joel I. Abrams and Ernest R. Scheyhing, EM6:Dec 70:847:7758

Land
Re-Cycling of Land Resources, Neville Borg, PWS:Nov 72:39

Land Acquisition
Land Acquistion Surveys and Maps for Reservoirs, Russell S. Dittmer, SU2:Nov 71:215:8500

Land Classification
Needed: A National Land Use Policy, Daniel A. Dreyfus, CE:May 72:52

Land Development
Choice-HUD's Blueprint for a Better Tomorrow, Byron R. Hanke, CE:Sept 69:49
Estimating Land-Clearing Costs Using Aerial Photograph, Leonard A. LeSchack and Robert G. Brown, CE:Feb 69:66
Introduction to Session II -- Recycling of Land Resources, Oscar S. Bray, PWS:Nov 72:37
New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19
Re-Cycling of Land Resources, Neville Borg, PWS:Nov 72:39
Role of Irrigation in the West's Expanding Economy, Floyd E. Dominy, IR4:Dec 68:401:6281
Utilization of Marginal Lands for Urban Development, Philip C. Rutledge, SM1:Jan 70:1:7000
Walt Disney World -- A Philosophy of Planning, William E. Potter, PWS:Nov 72:71

Landfills
Demonstration Sanitary Landfill in Kansas City, Kans., Gerald A. Neely and Nicholas S. Artz, CE:Oct 72:72
Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1:May 73:217:9741
The Federal Solid Wastes Disposal Program, Richard D. Vaughan, CE:Feb 69:69
Leaching of Pollutants From Refuse Beds, Syed R. Qasim and Jerry C. Burchinal, SA1:Feb 70:49:7078
Seepage from Recharge and Landfill Ditches, Paul A. Witherspoon and T. N. Narasimhan, IR73:Aug 73:39
Transportation Model Applied to Landfill Design, Robert B. Conrad and E. Kenneth Hoffman, EE3:June 74:549:10575

Landing Gear
Dynamic Response of Airplanes in Ground Operation, Te-ming Hsueh and Joseph Penzien, TE3:Aug 74:743:10755

Structural Analysis of Flexible Airfield Pavements, Richard G. Ahlvin, Yu Tang Chou and Ronald L. Hutchinson, TE3:Aug 74:625:10727

Land Management
Mobile Homes and New Communities, Herbert Behrend, UP2:Nov 74:181:10915
Needed: A National Land Use Policy, Daniel A. Dreyfus, CE:May 72:52

Land Ownership
The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
Land Acquistion Surveys and Maps for Reservoirs, Russell S. Dittmer, SU2:Nov 71:215:8500

Land Reclamation
Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72:333:9126
Deterioration and Restoration of Coastal Wetlands, Sherwood M. Gagliano, Hyuck J. Kwon and Johannes L. van Beek, 12CEC:71:1767
Displacement Front Under Ponded Leaching, James N. Luthin, Pedro Fernandez, B. Maslov, J. Woerner and Frank E. Robinson, IR1:Mar 69:117:6446
Effects of Surface Drainage on Stream Flow, H. N. McGill, Allyn C. Bennett, Wendell B. Moody and Gene C. Vittetoe, IR73:Aug 73:501
Land Reclamation and Groin-building in the Tidal Flats, Heie Focken Erchinger, 12CEC:71:1041
Model Study of Transformation of Tsunamis in Urado Bay, Shigehisa Nakamura, Yuichi Iwagaki and Yoshito Tsuchiya, 12CEC:71:2089
Movement of Salts in Ponded Anisotropic Soils, Jaime Ortiz and James N. Luthin, IR3:Sept 70:257:7530
Offshore Developments that Minimize Environmental Impact, Charles J. Lord, CO2:June 74:159:10610
Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244
Reclaimed Land in Kawasaki City, Japan, T. William Lambe, SM5:Sept 69:1181:6780
Swampy Site Turned into Prize-Winner, James L. Hart, CE:June 73:82
Utilization of Marginal Lands for Urban Development, Philip C. Rutledge, SM1:Jan 70:1:7000
Water Quality Management - Power Station Coal Ashes, Dennis W. Weeter, James E. Niece and Anthony M. DiGioia, Jr., EPCE:Aug 74:633

Land Resources
Evaluation System for Multiple Objective Planning, Charles F. Lemon, IRS:Sept 72:371
Introduction to Session II -- Recycling of Land Resources, Oscar S. Bray, PWS:Nov 72:37
Re-Cycling of Land Resources, Neville Borg, PWS:Nov 72:39
Recycling of Land Resources, Ellis L. Armstrong, PWS:Nov 72:57

Landscaping
Aesthetic Factors in Planning and Design of Libby Dam, Sydney Steinborn, PO1:Jan 70:39:6999
Esthetics of Urban Transportation Facilities, Charles E. De Leuw, TE1:Feb 69:23:6390
Preservation and Restoration of the Landscape, Herbert S. Conover, ECCD:72:365
Session III-Control of Pollution in Concrete Dam Construction, Dwight L. Glasscock, ECCD:72:391
United California Bank, Ormond Robert Berry, TB:73:C-P-251

Landslides
Buttress Design Earthquake-Induced Slides, Erwin Long and Warren George, SM4:July 67:595:5332
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731
Flood Flow Downstream from Slide, Harold P. Guy, TN: HY4:Apr 71:643:8018
Impulse Waves Generated by Landslides, J. William Kamphuis and R. J. Bowering, 12CEC:71:575
Interagency Approach to Watershed Problems Of Eel River, Eugene F. Serr, IR1:Mar 71:181:7983
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Landslides and Foundation Design, Hsai-Yang Fang, TB:73:Ia-11-1012
Landslides in Weathered Volcanics in Puerto Rico, George F. Sowers, 4PCSM:71:II105
Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133
Los Angeles Hillside Developments Put To Test by Recent Rains, Jack J. Schoustra and T. D. Lake, CE:Nov 69:39
Mass-Wasting Processes in Watershed Management, Raymond M. Rice and J. S. Krammes, IAWM:72:231
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023
Slides in Residual Soils From Shale and Limestone, Harold T. Whitney, George F. Sowers and B. Roger Carter, 4PCSM:71:II139
Water Waves Generated by Landslides in Reservoirs, Robert L. Wiegel, Edward K. Noda, Edward M. Kuba, Dennis M. Dee and Gordon F. Tornberg, WW2:May 70:307:7279
Water Waves Generated by Landslides, Edward K. Noda, WW4:Nov 70:835:7699

Land Subsidence
Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437
Review of Collapsing Soils, John H. Dudley, SM3:May 70:925:7278

Land Surveys
How Land Surveying Is Being Modernized, Robert T. Howe, SU1:July 72:17:9049
A New Philosophy on Preservation of Survey Evidence, R. B. Buckner, SU2:Sept 70:213:7540
Recommended Right-of-Way Practices, Harmer A. Weeden, CE:Apr 72:74
Surveying Responsibility of the Engineer-Manager, Daniel J. Watkins, SU1:May 71:1:8101

Land Tenure
Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973

Land Titles
Land Acquistion Surveys and Maps for Reservoirs, Russell S. Dittmer, SU2:Nov 71:215:8500
On Writing Descriptions, Richard R. Mayer, SU2:Sept 68:101:6094

Land Use
Aircraft Noise: Fugitive Factor in Land Use Planning, Dorn C. McGrath, UP1:Apr 69:73:6520
Analysis of BART Impacts on Bay Area Land Use, Douglass B. Lee, Jr., TE2:May 72:395:8907
Area Infrared Locates Solid Ground in Mined Area, Bob Beaver and Jack Wood, CE:Mar 73:62
ASCE Tackles Land Use Planning, Kneeland A. Godfrey, Jr., CE:July 74:66
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
Behavioral Sciences Investigation, James Kise, ABS:71:101
Beltway and Tax Base Impacts, Floyd I. Thiel, UP1:Mar 73:105:9619
Book Review: Controlling Urban Growth -- But for Whom?, Lawrence E. Miller, CE:Sept 73:36
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73:69:9599
Civil Engineering Education -- A Mechanism for Interaction with Urban Practice (Discussion), Albert A. Grant, CEE:Feb 74:2-325
Coastal Waters and the Nation, Edward Wenk, Jr., CE:June 69:52
Comprehensive River Basin Planning, Wallace R. Christensen, PL1:Oct 68:11:6136

Comprehensive Unified Land Data System, Robert N. Cook, SU1:Oct 69:103:6851
Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39:10015
Coordinated Land and Water Planning Proposed to Avoid Killing of Projects, Charles F. Luce, CE:May 71:75
Design Concept for Assigning Urban Space, Richard W. Cockfield and Virginia K. Handa, UP2:Dec 71:191:8582
The Development of Tropical Lands by Michael Nelson (Book Review), Lyman D. Wilbur, CE:Sept 74:44
Ecological Values and Regional Planning, Ian McHarg, CE:Aug 70:40
Econometric Model to Aid in Urban Planning Decisions, A. F. Brotchie, Ron Sharpe and A. Raymond Toakley, UP1:Mar 73:25:9587
Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
Environmental Aspects of Site Selection, Eugene F. Dudley, PO1:June 72:21:8971
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
Environmental Factors in Passenger Terminal Design, John J. Fruin, TE1:Feb 72:89:8734
Establishment of a Coastal Setback Line in Florida, James A. Purpura, CE13:72:II-1599
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
Estimation of Washload Produced on Certain Small Watersheds, Oswald Rendon-Herrero, HY7:July 74:835:10638
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
Evaluation of Agricultural Drainage in Water Quality Management, T. Clark Lyons, Dwight P. Russell and Roger G. Fry, IR73:Aug 73:529
Evaluation of Effects of Land-Use Changes on Streamflow, David R. Dawdy and James M. Bergmann, IR73:Aug 73:619
Evolution of Location and Design of TVA Power Substations, Robert C. St. Clair and John W. Sanders, EPCE:Aug 74:525
The Flood Management Project for Atchison, Kansas, Bernard T. Pierce, IAWM:72:209
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2:Dec 71:149:8568
A Highway Administrator Looks at Community Values, J. A. Legarra and T. R. Lammers, CE:Sept 69:54
Highway Noise and Acoustical Buffer Zones, Asadullah Zulfacar and C. Scott Clark, TE2:May 74:389:10520
Hydrologic Response of Watersheds to Land Use Management, Louis M. Glymph, Heggie N. Holtan and Charles B. England, IR2:June 71:305:8174
Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, HY11:Nov 71:1835:8523
Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, IAWM:72:165
Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
Impact on Fish and Wildlife from Land-Use Practice, John C. Peters, IAWM:72:387
Impacts of Rural to Urban Water Use, Jean O. Williams, IR73:Aug 73:85
Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132
Infrastructure Planning: Force Behind Port of Rotterdam's Growth, Sverre E. Bergh, CE:May 71:79
Introduction to Session II -- Recycling of Land Resources, Oscar S. Bray, PWS:Nov 72:37
Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
Land Capability Classes As Hydrologic Response Units in Watersheds, Charles B. England, IAWM:72:53
Land Treatment of Food Processing Wastewaters, Louis C. Gilde, IR3:Sept 73:339:10000
Land Use as a Factor in Coastal Water Quality, Percy H. McGauhey, CE13:72:III-2091
Land-use Intensity, the LUI Scale, and Zoning, Byron R. Hanke, UP4:Dec 67:19:5675
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
Land Use Plans: Preparing One, Legislation; How to Prepare a Plan, CE:Aug 74:51
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, HY11:Nov 73:2113:10135
Management Problems in Flood Plain Areas, Thomas M. Lee, WW3:Aug 72:357:9121
Mobile Home Parks and American Municipalities, Stephen Sussna, UP2:Dec 71:139:8562
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Needed: A National Land Use Policy, Daniel A. Dreyfus, CE:May 72:52
Needed - A New Outlook for Irrigation, Ellis L. Armstrong, OIDS:72:1
New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93:8981
The New City of Columbia, Md., Edwin Baker, CE:Sept 70:57
New Concepts in Suburban Drainage in Florida, Kenneth A. Bryant, Jr. and James N. Krider, IR73:Aug 73:471
New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19
New Town Planned Around Environmental Aspects, Ralph C. Everhart, CE:Sept 73:69
Orthophotoquads for Arizona Land-Use Mapping and Planning, Carl C. Winikka and Samuel A. Morse, Jr., SU1:May 74:1:10525
Parking Design and Requirements for High Rise Building, State-of-Art Report 11, Richard C. Rich, TB:73:Ia-1-225
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Planning for a New Town, Daniel W. Moore, UP1:Apr 71:79:8065
Principles and Procedures in Flood Plain Management, James E. Goddard and John W. Weathers, HY4:July 69:1321:6696
Principles and Standards for Water and Land Resources Planning, W. Don Maughn, PP3:July 72:311:9059
Principles and Standards -- Water and Land Planning, Gary D. Cobb, IRS:Sept 72:399
Private Enterprise Aids Public Recreation, Douglas W. Barr, IAWM:72:399
A Program For New Towns, Ira J. Bach, UP1:Apr 71:55:8059
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
Property Development in Modern Communitites, Daniel B. Stauffer, CO1:Jan 68:35:5741
Proposals for Gaining Acceptance for Gaining Acceptance for Urban Freeways, Andrew S. Balbiani, Richard J. Naish and Daniel M. Reisner, TE4:Nov 70:585:7672
Proposed Santa Monica Causeway Project, James W. Dunham, WW4:Nov 68:425:6219
Proposed Transportation and Visitor Center, Robert W. Harris, TE3:Aug 70:301:7459
Public Health Effects of Water, Air and Land Pollution, Gwilym M. Roberts, PWS:Nov 72:117
Public Participation in Urban Water Planning, Thomas C. Ferrara, Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
Recycling of Land Resources, Ellis L. Armstrong, PWS:Nov 72:57

Residential-Recreation Development, Alan T. Hill, CE:Dec 71:60
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
Rivers in the City, by Roy Mann (Book Review), Frederick Lehman, CE:Aug 74:28
Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
Sample Approaches to Optimum Use of Marginal Lands, William W. Moore and Nicholas Chryssafopoulos, SM3:Mar 72:243:8789
San Francisco BCDC Revisited, E. Jack Schoop, CE: Apr 73:71
Social Considerations of Urban Transportation Systems, Robert L. Morris, TE3:Aug 70:333:7471
Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750
Societal Factors and Tall Buildings, State-of-Art Report 2, Charles Brownstein and Leonard Ruchelman, TB:72:C-AC19-151
Some Applications of Drainage Experience, William O. Watson, IRS:Sept 72:1
Sources and Transport of Bacterial Indicators in Rural Streams, Samuel H. Kunkle, IAWM:72:105
Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366
Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91
'Transient (Dual) Zoning, Murray I. Mantell, UP1: Mar 74:1:10386
Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592
Transportation and Urban Renewal - Experience in the United Kingdom, William K. Mackay, UP1:Mar 73:1:9624
Transthetics, Harold P. Hulett, PO1:June 72:103: 8989
Urbanization's Drainage Consequence, Paul O. Reimer and Joseph B. Franzini, UP2:Dec 71:217: 8600
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
Use of Air Rights over Urban Expressways, Thomas F. Airis, TE2:May 69:357:6550
Use of Sociology in Design Practice, Robert Gutman, ABS:71:109
Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
Water Resources and Regional Land-Use Plan, James C. Ringenoldus, SA6:Dec 70:1311:7735
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054

Land Use Zoning
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795: 10074
California Tackles Highway Noise, James D. Collins, CE:Nov 73:56
Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39: 10015
Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105
Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73: 691:10046
Principles and Procedures in Flood Plain Management, James E. Goddard and John W. Weathers, HY4:July 69:1321:6696

Lanthanum Halides
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196

Lap Joints
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72: 2541:9345

Laplace Transformation
Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206

Laser Beams
Laser Alignment Techniques Utilized in Tunneling, Austin Cooney, SU2:Sept 70:229:7545
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008

Lasers
Laser Multilateration, Theodore H. Wirtanen, SU1: Oct 69:81:6843
Particle Velocity Measurements with a Laser Device, C. A. Greated and Norman B. Webber, 12CEC:71: 1951
Short-range EDM: Big Boost for Surveyors, Eugene E. Dallaire, CE:Feb 71:69
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008

Lateral Forces
Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182
Behavior of Laterally Loaded Piles: I-Single Piles, Harry G. Poulos, SM5:May 71:711:8092
Behavior of Laterally Loaded Piles: II-Pile Groups, Harry G. Poulos, SM5:May 71:733:8093
General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73: 365:9604
Model Study of Passive Pressure in Sand, Jagdish Narain, Swami Saran and P. Nandakumaran, SM4: July 69:969:6655
Pile Stability, Part 2 -- Non-Elastic Soil, Peter J. Hoadley, GT74:June 74:245
Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56
Predicted Performance of a Braced Excavation, Hugh Q. Golder, James P. Gould, T. William Lambe, Gregory P. Tschebotarioff and Stanley D. Wilson, SM3:May 70:801:7292
Report on Conference on 1971 San Fernando, Ca., Earthquake, David J. Leeds, CE:May 72:58
Stability of Asymmetric Structures—Research Needs, Peter F. Adams, ST11:Nov 74:2271:10960
Stability of Braced and Unbraced Frames, James H. Davison and Peter F. Adams, ST2:Feb 74:319: 10371

Lateral Pressure
Analysis of Asymmetrical Coupled Shear Walls, Arthur C. Heidebrecht and R. David Swift, ST5: May 71:1407:8100
Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837
Criteria for Lateral Pressures for Braced Cuts, William J. Armento, PES:72:I-1283
Geotechnical Considerations Of Lateral Stresses, David J. Henkel, LS:70:1
Lateral-Load Analysis of Asymmetric Multistory Structures, Jacob Gluck, ST2:Feb 70:317:7089
Lateral Load Capacity of Piles in Sand and Normally Consolidated Clay, Awtar Singh, Richard E-Wei Hu and Robert D. Cousineau, CE:Aug 71:52
Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360
Lateral Pressures On Rigid Permanent Structures, James P. Gould, LS:70:219
Measuring Pile Deflections With Inclinometer, Jai B. Kim and Robert J. Brungraber, TN: GT7:July 74: 867:10641
Methods of Estimating Lateral Loads And Deformations, Norbert R. Morgenstern and Zdenek Eisenstein, LS:70:51

Laterals

Designing Trickle Irrigation Laterals for Uniformity, Terry A. Howell and Edward A. Hiler, IR4:Dec 74:443:10983

Lateral Stability

Lateral Stability of Nonuniform Cantilevers, Campbell Massey and Peter J. McGuire, EM3:June 71:673:8172
Lateral Stability of Wood Beam-and-Deck Systems, John J. Zahn, ST7:July 73:1391:9829
Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301
Pile Stability, Part 2 -- Non-Elastic Soil, Peter J. Hoadley, GT74:June 74:245

Laterites

Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
Need for Estimated Cement Requirements for Stabilizing Lateritic Soils, Samuel A. Ola, TE2:May 74:379:10534

Latitude

Evaluation of Antarctic Star Observations, John C. Albright and James L. Clapp, SU2:Sept 68:81:6092

Lattice Design

Bibliography on Latticed Structures, Donald R. Sherman, Chmn., ST7:July 72:1545:9055
Macro Approach to Discrete Field Analysis, Donald L. Dean and Hota V.S. GangaRao, EM4:Aug 70:377:7463

Launchers

Lateral Stability of Plane Open-Web Structures, P. C. Varghese, ST11:Nov 74:2223:10924

Law (Jurisprudence)

The Highway Engineer on Trial, Paul W. Clark, CE:Sept 73:60
Involvement of Practitioners in Education for the Practice of Law, Millard H. Ruud, CEE:Feb 74:2-210

Laws

Civil Engineering Education for the 1970's, Edward G. Nawy, CE:Aug 71:70
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, HY11:Nov 73:2113:10135

Layers

Stiffness Coefficients for Embedded Footings, Gordon R. Johnson, Paul P. Christiano and Howard I. Epstein, EPCE:Aug 74:499
Stiffness Coefficients for Layered Media, Gordon R. Johnson, Howard I. Epstein and Paul P. Christiano, TN: ST7:July 74:1537:10647

Layout

Construction Control by Programmetric Methods, George P. Katibah, SU1:Oct 69:1:6809
The New Newark International Airport, CE:Sept 74:74
Optimum Beam Layout for Large Areas, Paul Grundy, ST8:Aug 71:2085:8304

Leaching

Constructing Non-Polluting Coal Ash Disposal Sites, Anthony M. Di Gioia, Jr., Robert P. Hayden and James E. Niece, CE:Dec 74:64
Contribution of Minerals to the Ground Water Due to Agriculture in the Upper Santa Ana River Basin of Southern California, Ahmad Amin Hassan, OIDS:72:245
Displacement Front Under Ponded Leaching, James N. Luthin, Pedro Fernandez, B. Maslov, J. Woerner and Frank E. Robinson, IR1:Mar 69:117:6446
Dynamic Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE4:Aug 74:869:10701
Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10:Oct 71:1431:8451
Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047
Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946
Leaching of Pollutants From Refuse Beds, Syed R. Qasim and Jerry C. Burchinal, SA1:Feb 70:49:7078
Leaching of Pollutants from Wood-Chip Slurry, Takashi Asano, Alan T. Towlerton and Robert L. Sanks, EE4:Aug 74:855:10707
Movement of Salts in Ponded Anisotropic Soils, Jaime Ortiz and James N. Luthin, IR3:Sept 70:257:7530
Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB:Aug 73:427
Sanitary Landfills: The Latest Thinking, CE:Mar 73:69
Scientific and Administrative Criteria for Shallow Waste Disposal, George M. Hughes and Keros Cartwright, CE:Mar 72:70
Static Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE3:June 74:529:10572

Leadership

Education for Leadership, C. Maxwell Stanley, CEE:Feb 74:1-312
Education of Engineering Students to become Engineers, George F. Sowers, CEE:Feb 74:1-320
Ut Prosimus et Ducamus, Dan H. Pletta, CEE:Feb 74:1-459
Workshops—Foundation of ASCE Grass Roots Strength, Paul A. Kuhn, EI4:Oct 74:289:10842

Leakage

Identification of Parameters in Finite Leaky Aquifer System, Miguel A. Marino, HY2:Feb 73:319:9567
Mathematical Model of Leaky Aquifer, Robert Bibby and Daniel K. Sunada, IR3:Sept 71:387:8350
Pollution of the Marine Environment by Oig, Ralph L. Rhodes, CEO-II:70:1211
Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78
Rigid Urethane Foam Cures Roof Leakage, Bruce C. Gandy, CE:July 73:73
Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51

Learning Theory

Learning Games: The Transportation Planning Game, Martin C. Nizlek and Frederick J. Wegmann, TE1:Feb 74:41:10339

Least Squares Method

Automated Formulation of Condition Equations, Frank J. Hatfield, TN: SU1:Sept 73:151:10017
Linearizing Weight Factors For Least-Squares Fitting, Llewellyn E. Jones, HY5:May 71:665:8089
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034
Rapid Determination of Plasticity Index, Roland A. Pettitt, CE:May 71:74

Legal Aspects

The Engineer and the EIS: Some NEPA Court Decisions, Jack Golden and Thomas R. Mongan, CE:Mar 74:49
Legal and Institutional Constraints in Consolidating Irrigation Systems, George E. Radosevich, OIDS:72:349

Legislation

Action in Public Affairs -- A Way of Life, James W. McPhillips, Brian R. Hogan, Eugene R. McMaster and David A. Novick, PP2:Apr 72:181:8797
Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127

The Aftereffects of Annexation--A Case Study, Russell E. Helms, UP1:Apr 69:15:6490
Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2: May 73:405:9745
Application of PL-566 to Drainage Problem, Paul Tilker, IRS:Sept 72:17
Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43
ASCE at Midterm or Challenges of 1972, John E. Rinne, CE:July 73:87
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
Bicycles for the Human Environment: New Developments at the U.S. Department of Transportation, Benjamin O. Davis, Jr., BP73:Dec 73:30
Bicycle Theft: The Problem and The Prevention, Raymond N. Seakan, BP73:Dec 73:496
Bicycling Safety and Enforcement Programs - Why They Fail, Larry Wuellner, BP73:Dec 73:565
Biking and Hiking Through Red Tape, Margret M. Rimmer, BP73:Dec 73:9
Can Engineering Forecasters Effect Water Law?, George W. Reid, E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329
The Civil Engineer and Elective Office, Brian J. Lewis, CE:Apr 74:65
Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85
Coordinates Versus Confusion, Robert T. Howe, SU2: Sept 70:191:7528
Critique of Water Pollution Control Act, Anthony H.J. Dorcey and Irving K. Fox, EE1:Feb 74:141: 10326
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87
Dam Safety Laws and Dam Safety Inspections in South Africa, Johannes Gideon du Plessis, IMROD:Sept 73:241
Dam Safety Laws and Inspection Procedures in the United Kingdom, Angus A. Fulton, IMROD:Sept 73:180
Dam Safety Program in Pennsylvania, Clifford H. McConnell, IMROD:Sept 73:139
Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105
Electricite de France Experiences and Practice in Safety Inspections of Old and New Dams, A. J. Taillebot, IMROD:Sept 73:229
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Engineering Education for Public Participation, John W.N. Fead, CEE:Feb 74:1-525
Engineering Licensure Innovations, C. Allen Wortley, EI3:July 74:213:10642
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265: 9757
Environment, Power, and Impact Assessment — The Politics of Information, Michael D. Bradley, EPCE: Aug 74:653
Experience and Problems with Dams in Idaho, A. Kenneth Dunn, IMROD:Sept 73:100
Experience and Problems with Dams in Texas, John R. Clarke, IMROD:Sept 73:105
Federal Funds Available to Sections for Minority Programs, Stephen L. Tuttle, CE:Feb 73:66
French Laws and Regulations Regarding Dam Supervision and Inspection, Michel A. Carlier, IMROD:Sept 73:198
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72, 216pp.
Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Improving Environmental Impact Procedures for Highway Projects, James Cianciosi and Allan G.R. Bullen, UT73:May 73:33
Interdistrict Apportionment of Flood Control Costs, Richard R. Dague, E. Robert Baumann and Paul E. Morgan, IR4:Dec 68:441:6298
Involvement of Practitioners in Education for the Practice of Law, Millard H. Ruud, CEE:Feb 74:2-210
Law Politics and Ground Water Management, Donald Stark, SEA:70:135
The Law -- The Letter and the Spirit -- Introduction, M. D. Morris, CEWAU:74:161
Legal Aspects of Architecture, Engineering, and Construction Process, by Justin Sweet (Book Review), Joseph Kaming, CE:Mar 71:10
Legal Aspects of Thermal Discharges, Angel J. Martin, HY7:July 74:1059:10682
Legal Constraints on Urban Water Systems, Neil S. Grigg, UP2:Sept 73:137:9986
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, HY11:Nov 73:2113:10135
Legal Problems in Water Pollution Control, Dwight F. Metzler, HY1:Jan 74:221:10260
The Legislation of Balance, Milton Pikarsky, TE3: Aug 73:483:9938
Legislative Involvement, Stephen M. Olko, PP4:Oct 72:491:9278
Local Legislation and Its Impact on Transportation, Fred C. Hart, UT73:May 73:63
Management Problems in Flood Plain Areas, Thomas M. Lee, WW3:Aug 72:357:9121
Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276
Mobility as It Relates to the Handicapped and the Elderly's - An Overview, Steven C. Provost, BP73: Dec 73:411
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Nader's Raiders Versus California Water Project, James H. Krieger, PP1:Jan 73:39:9490
National Program for Inspection of Dams, John W. Morris, IMROD:Sept 73:14
Our Priceless Heritage, Our Youth, Leon Jaworski, CE:Mar 73:76
Overview of Transportation Legislation, Richard E. Briggs, PP3:July 73:381:9883
Plan for Financing Urban Mass Transit Systems, Robert T. Howe, TE2:May 70:219:7286
President's Annual Address, John E. Rinne, CE:July 73:87
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
Public and Legislative Support for Bikeways, John Auerbach, BP73:Dec 73:20
The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492
"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495
"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73: 59
Rationale of Standards for Use of Reclaimed Water, Herbert B. Foster, Jr. and William F. Jopling, SA3: June 69:503:6609
Reaction to USCOLD's Proposed Law for Dam Safety, Alfred R. Golze, IMROD:Sept 73:282
Regulations for Pedestrian and Bicycle Safety: Why, Who, What and How to Regulate, Monroe B. Snyder, BP73:Dec 73:553
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
Safety of Dams -- Hydrologic and Hydraulic Aspects, Vernon K. Hagen, IMROD:Sept 73:337
Sediment and Storm Water Control for Fossil Power Plants, Harry C. Grau, EPCE:Aug 74:339
Should Renewal of PE License be Automatic?, C. Allen Wortley, CE:Jan 74:69
State Flood-Plain Management Activities, Jack G. Johnson, HY10:Oct 70:2041:7589
States' Experience and Their Problems, Robert B. Jansen, IMROD:Sept 73:77

Subsurface Environment—Private Property or Public Domain?, William R. Walker and William E. Cox, HY11:Nov 74:1699:10958
There Oughta Be A Law!, Norman A. Clarke, BP73:Dec 73:550
Transient (Dual) Zoning, Murray I. Mantell, UP1:Mar 74:1:10386
Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949
Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365:9879
Water Quality Control in California, B. Norman Hume, SA4:Aug 70:873:7448
Weather Modification Regulation, Richard A. Schleusener, IR3:Sept 70:281:7537
What's the Deal? Government Negotiates Engineering Services, Richard H. Tatlow, III, PP1:Sept 70:81:7557

Levees
Citizen Participation: Here to Stay, Gene E. Willeke, CE:Jan 74:78
The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60

Leveling
Automated Formulation of Condition Equations, Frank J. Hatfield, TN: SU1:Sept 73:151:10017

Liabilities
Booby Traps for Young Engineers on Construction, Edward A. Merrill, CO2:Nov 71:305:8541
The Business and Practice of Foundation Engineering in Venezuela, Gustavo Perez Guerra, 4PCSM:71:II379
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64
Landmark New York Cases on the Question of Liability of the State in Withholding Subsurface Information, Thomas B. Treacy, CEWAU:74:195
The Practice of Foundation Engineering in Canada, Victor Milligan, 4PCSM:71:II355
Professional Liability Insurance, Paul L. Genecki, PP2:Apr 72:213:8820
Structural Failures from the Human Side, Raymond C. Reese, CE:Jan 73:81
A View of the Practice of Foundation Engineering in the United States, Elio E. D'Appolonia and John C. Regan, 4PCSM:71:II365

Libraries
Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., George Bugliarello, Chmn., HY7:July 72:1243:9072
The Engineering Societies Library, Gail Bays, CE:Aug 74:88
Practical Continuing Education for the Individual Engineer, Russel C. Jones, CE:Feb 70:66

Licenses
ASCE's New President Outlines a Suggested Course, Oscar S. Bray, CE:Dec 71:38
Bicycle Registration, Glenn R. Walters, BP73:Dec 73:515
Bicycle Theft and Registration - An Overview, Arthur R. Daniel, Jr., BP73:Dec 73:492
Building a Professionally Qualified Faculty, King S. Luk and Eugene H. Kopp, EI2:Apr 74:105:10466
The Business and Practice of Foundation Engineering in Venezuela, Gustavo Perez Guerra, 4PCSM:71:II379
Closing the Last Unlicensed Gap in the Construction Process, Edward R. Fisk, CE:Sept 74:96
Currents in Civil Engineering Education, Russel C. Jones, CEE:Feb 74:2-90
Dam Inspection Program of the Federal Power Commission, Desloge Brown, IMROD:Sept 73:23
Engineering Licensure Innovations, C. Allen Wortley, EI3:July 74:213:10642
Engineering Registration - Today and Tomorrow, Rex A. Tynes, PP4:Oct 73:457:10079
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Investing in Urban Bicycle Facilities, Richard C. Podolske, TE3:Aug 74:687:10742
Licensing of Pedicycle Operators, Lawrence C. Wilson, BP73:Dec 73:571
The Making of a Professional Engineer - A Teamwork Approach (Discussion), William A. Hunt and Leland J. Walker, CEE:Feb 74:2-322
One Man's View of Registration Today, Oscar S. Bray, PP1:July 69:1:6653
Our Signal is Clear, Charles W. Yoder, CE:Sept 74:64
The Practice of Foundation Engineering in Canada, Victor Milligan, 4PCSM:71:II355
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
Professional Schools and Programs, M. R. Lohmann, CEE:Feb 74:2-125
Should Renewal of PE License be Automatic?, C. Allen Wortley, CE:Jan 74:69
Summary of the Session on Federal Inspection Activities, Samuel H. Miles, IMROD:Sept 73:67
There Oughta Be A Law!, Norman A. Clarke, BP73:Dec 73:550
Trends in Environmental Engineering Education, Robert M. Sykes, CEE:Feb 74:2-138

Life (Durability)
Some Aspects of Office Design Live Loads, Wilfred W.C. Siu and Niels C. Lind, ST11:Nov 73:2245:10159

Life Expectancy
Stochastic Model for Analysis of Pavement Systems, Hani Findakly, Fred Moavenzadeh and Joseph Soussou, TE1:Feb 74:57:10358

Lift
Lift-Oscillator Model of Vortex-Induced Vibration, Ronald T. Hartlen and Iain G. Currie, EM5:Oct 70:577:7606
Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB:Aug 73:43

Lift Slab Construction
Multistory Prefabricated Columns, German R. Gurfinkel, CO2:Oct 70:137:7587

Lightning
Weather Modification for Alaska Fire Control, James W. Franks, OIDS:72:423

Lightning Protection
Weather Modification for Alaska Fire Control, James W. Franks, OIDS:72:423

Lightweight Aggregate Concretes
Reinforced Lightweight Concrete Columns, Donald W. Pfeifer, ST1:Jan 69:57:6362

Lightweight Aggregates
Full-Size Lightweight Concrete Column4, Donald W. Pfeifer, ST2:Feb 71:495:7903

Lignin
Removal of Lignin from Water by Precipitate Flotation, Mu-Hao Wang, Marvin L. Granstrom, Thomas E. Wilson and Lawrence K. Wang, EE3:June 74:629:10574

Lignocellulose
Lignosulphonates in Lake Paijanne Water, Seppo Priha, SA2:Apr 71:191:8021

Lime
Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72:311:8858

Lime Reclaims Unstable Interior Subgrade During Construction, James M. Sheahan, CE:June 72:74

Lime Cements

Lime-Treated Soils for Pavement Construction, Marshall R. Thompson, HW2:Nov 68:191:6249

Limes

Lime is not a panacea, Edward D. Graf, CE:July 74:47

Lime Slurry Pressure Injection Tames Expansive Clays, Paul J. Wright, CE:Oct 73:42

Lime Soil Mixtures

Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72:327:8827

Evaluation of Quick Test For Lime Stabilization, Marshall R. Thompson and James L. Eades, TN: SM2:Mar 70:795:7117

Limestone

Performance Record of Walter F. George Lock and Dam, Robert L. Crisp, Jr., PES:72:I-691

Slides in Residual Soils From Shale and Limestone, Harold T. Whitney, George F. Sowers and B. Roger Carter, 4PCSM:71:II139

Sprinkle Treatment Increases Highway Skid Resistance, George W. Maupin, Jr., CE:Feb 72:51

Limit Design

Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480

Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73:433:9816

Bearing Capacity of Concrete Blocks, Wai F. Chen and Sergio Couarrubias, EM5:Oct 71:1413:8421

Collapse of Clamped Variable Thickness Circular Plates, Helmut M. Haydl and Archibald N. Sherbourne, TN: EM6:Dec 73:1309:10187

Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7

Discrete Structural Optimization, Kenneth F. Reinschmidt, ST1:Jan 71:133:7829

Duality Between Limit Analysis and Limit Design, George I.N. Rozvany, TN: EM6:Dec 71:1763:8559

Imposed Rotations Methods, State-of-Art Report 3, Jean Claude Maldague, TB:73:III-22-395

Limit Pressures of Rigidly Clamped Circular Cylindrical Shells, Hwa-Shan Ho, EM4:Aug 74:757:10759

Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949

Limit States of Composite Structures, Duiliu Sfintesco, TB:73:II-19-895

Non-Linear Analysis and Limit Design, Theme Report, Giorgio Macchi, TB:73:III-22-333

Non-Linear Analysis and Limit Design, Summary Report, Herbert A. Sawyer, TB:73:III-22-483

Limit Design Method

Applications, State-of-Art Report 5, Pavel J. Marek, TB:73:II-19-869

Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, ST1:Jan 74:175:10289

Current Application of Limit State Philosophy -- State-of-Art Report No. 1, Andre Paduart, TB:73:III-26-859

Current European Views on Structural Safety, E. R. Rowe, ST3:Mar 70:461:7132

Design for the Limit State of Instability, James G. Mac Gregor, TB:73:III-26-936

Effects of Generalized Excitations on the Non-Linear Behavior of Reinforced Concrete Structures, State-of-Art Report 5, Vitelmo V. Bertero, TB:73:III-22-431

Effects of Reinforcements on Ductility of Concrete, Surendra P. Shah and B. Vijaya Rangan, ST6:June 70:1167:7366

Elastic and Limit States Design, I. A. El-Demirdash, TB:73:II-19-892

Extensibility of Concrete and Theorems of Limit Analysis, Wai F. Chen, EM3:June 70:341:7369

Finite Element for Reinforced Concrete Frame Study, Wayne C. Kroenke, Martin J. Gutzwiller and Robert H. Lee, ST7:July 73:1371:9835

Full-Range Analysis of Concrete Frames, Angel L. Lazaro, III and Rowland Richards, Jr., ST8:Aug 73:1761:9934

Fully Plastic Analysis and Design, State-of-Art Report 4, A. L.L. Baker, TB:73:III-22-415

Gravity Loads and Temperature Effects, Summary Report, David E. Allen, TB:73:Ib-5-145

Interaction Between Frames and Precast Panel Walls, Atle Gjelsvik, ST2:Feb 74:405:10374

Interaction Equations for Biaxially Loaded Sections, Wai F. Chen and Toshio Atsuta, ST5:May 72:1035:8902

Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736

Limit Analysis of Plane Problems in Soil Mechanics, John Lysmer, SM4:July 70:1311:7416

Limit Analysis Of Plates Under Concentrated Load, Philip V. McLaughlin, Jr., TN: EM4:Aug 70:509:7444

Limit Analysis Of Stability Of Slopes, Wai F. Chen and Max W. Giger, SM1:Jan 71:19:7828

Limit Analysis of Structures, Dusan Krajcinovic, ST9:Sept 69:1901:6778

Limit Design of Reinforced Concrete Frames, M. Z. Cohn, ST10:Oct 68:2467:6197

Limits of Usefulness, State-of-Art Report 2, Lars Ostlund, TB:73:II-19-841

Limit State for Dynamic Loads, Horea Sandi, TB:73:III-26-938

Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835

List of Limit States, State-of-Art Report 2, J. Brakel, TB:73:III-26-863

Load Factor (Limit States) Design, Summary Report, William C. Hansell and Ivan M. Viest, TB:73:II-19-899

Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825

Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901

Load Factor Variables, James G. Mac Gregor, TB:73:III-26-935

Lower Bound Optimal Design of Concrete Structures, George I.N. Rozvany and M. Z. Cohn, EM6:Dec 70:1013:7778

Meaning of Structural Design, Bruce G. Johnston, TB:73:II-19-894

Nonlinear Analysis of Concrete Flexural Members, John M. Kulicki and Celal N. Kostem, TB:73:III-22-473

Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10:Oct 73:2011:10091

Optimal Structure Design by Dynamic Programmino, Andrew C. Palmer, ST8:Aug 68:1887:6057

Optimum Design of Trusses for Ultimate Loads, William S. LaPay and George G. Goble, ST1:Jan 71:157:7838

Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72:1697:9154

Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694

Plastic Analysis of a Plate Sealing a Fluid, Richard H. Lance and David N. Robinson, EM6:Dec 70:1183:7742

Plastic Design of Flexible Conduits, James M. Doyle and Shih-Lung Chu, ST8:Aug 68:1935:6070

Plastic Indentation of Metal Blocks by Flat Punch, Wai F. Chen, EM3:June 70:353:7370

Reinforced Concrete Beams Under Repeated Loads, Walter M. Ruiz and George Winter, ST6:June 69:1189:6601

Repeated and Cyclic Loadings, Hiroyuki Aoyama, TB:73:III-22-460

Serviceability, Emil Grasser, TB:73:III-22-465

Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72:13:8625
Torsion/Flexure Interaction, Neil Jackson, TB:73:III-22-463
Ultimate Deformation of Reinforced Concrete, Minoru Yamada, TB:73:III-22-467
Yield Line Analysis of Folded Plate Structures, Morris N. Fialkow, ST12:Dec 68:2935:6306

Limited Access Highways
Double-Decking an Expressway, A. A. Trinidad, Jr., CE:Dec 69:59

Limiting Factors
Speed of Ships in Restricted Navigation Channels, R. Bryan Schofield, WW2:May 74:133:10539

Limnology
Mission of U.S. Lake Survey, James E. Bunch, SU2: Sept 70:181:7527

Linear Algebraic Equations
Numerical Method for Elastic Stability Problems, Chiyyarath V. Girijavallabhan, ST11:Nov 71:2691:8530
Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089

Linear Differential Equations
Elimination Of Secularity In Regular Perturbation, W. F. Ames and H. M. Khalil, TN: EM2:Apr 72:487:8815
Hydraulic Network Analysis Using Linear Theory, Don J. Wood and Carl O.A. Charles, HY7:July 72:1157:9031
Linear Theory of Orthotropic Cylindrical Shells, Osman A. Marzouk and George Abdel-Sayed, ST11:Nov 73:2287:10143
Solution of Linear Equations--State-of-the-Art, Christian Meyer, ST7:July 73:1507:9861
Structural Response By Discrete-State Computation, Raymond G. Jacquot and Christos T. Constantinides, TN: EM2:Apr 72:497:8815

Linearity
Space Resection from Collinearity Conditions, Kunwar K. Rampal, SU2:Nov 71:205:8520

Linear Programming
Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127
Computer Models for Reservoir Regulation, Daniel P. Loucks, SA4:Aug 68:657:6075
Design of Optimal "Water Distribution Networks, David Karmeli, Y. Gadish and S. Meyers, PL1:Oct 68:1:6130
Ground-Water Hydraulics in Aquifer Management, Eduardo Aguado and Irwin Remson, HY1:Jan 74:103:10287
Linear Programming and Channel Flow Identification, William Wen-Gong Yeh and Leonard Becker, HY11:Nov 73:2013:10177
On Discrete Structural Optimization, Kenneth F. Reinschmidt, EC5:70:189
Optimal Pumping for Aquifer Dewatering, Eduardo Aguado, Irwin Remson, Mary F. Pikul and Will A. Thomas, HY7:July 74:869:10639
Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089
Optimum Design of Complex Water Resource Projects, David Stephenson, HY6:June 70:1229:7320
Optimum Design of Prestressed Plates, Uri Kirsch, ST6:June 73:1075:9777
Optimum Design of Truss Structures For Ultimate Loads, William S. LaPay and George G. Goble, EC5:70:223
Optimum Elastic Design of Redundant Trusses, David Johnson and Derick M. Brotton, ST12:Dec 69:2589:6938
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128
Stochastic Scheduling of Linear Construction Sites, Joachim Dressler, CO4:Dec 74:571:11024
Structural Optimization by Inscribed Hyperspheres, Roman Baldur, EM3:June 72:503:8934

Linear Responses
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72:519:8961
Matrix Method for Linear Response of Structures, Gordon B.J. Mah, EM5:Oct 69:1101:6831

Linear Systems
Evaluation of Segmented IUH From Derivatives, Mordechai H. Diskin, HY1:Jan 69:329:6359
Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247:10236
Techniques for Analysis of Large Structures, William R. Spillers, ST11:Nov 68:2521:6233

Line of Balance
Planning Construction of Repetitive Building Units, Robert I. Carr and Walter L. Meyer, CO3:Sept 74:403:10812

Liner Plates
Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256

Linings
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
Bentonite Sealing Methods Compared in the Field, Myron B. Rollins and Anthony S. Dylla, IR2:June 70:193:7379
Brittle Failure of Steel Stack, Max Zar, PO1:July 74:33:10650
Controlling Salinity by Lining Distribution System, Wynn R. Walker, IRS:Sept 72:113
Corrugated Metal Flumes, Tadaaki Naruse, OIDS:72:219
Design of Rock Caverns for Hydraulic Projects, Mircea S. Vasilescu, C. P. Benziger and Robert W. Kwiatkowski, URC:72:21
Dynamic Behavior of Steel Chimney Liners, Ronald G. Domer, EPCE:Aug 74:97
Dynamic Response of Steel Chinney Liners to Flue Gas Flow, J. J. Deans and J. G. Willmot, EPCE:Aug 74:47
Gabions Used In California Flood Control, Fred R. Cline, (Deceased) and Edward Koehm, CE:Mar 74:68
Introduction to the ASCE Recommended Practice for the Design and Construction of Steel Chimney Liners, Robert W. Mikitka and Randy W. Snook, EPCE:Aug 74:41
Keynote Address, Albert A. Mathews, SUSS:July 73:3
Largest Butyl Rubber Lined Reservoir, Robert T. Chuck, CE:May 70:44
Plastic Relining of Small-Diameter Pipes, Raymond M. Brenner, SA2:Apr 70:297:7216
Shotcrete for Structural Rehabilitation, James P. Crawford, SUSS:July 73:367
Soft-ground Tunneling for Storm Sewer, Henry R. Cooke, CE:Apr 71:61
Studies on Seepage from Canals with Partial Lining, Kanakatti Subramanya, Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333:10197
Summary of Session II - Shotcrete Applications in the Americas, William A. Maples, SUSS:July 73:58
Summary of Workshop B - Shotcrete Design, P. L. Boileau, SUSS:July 73:232
TVA Experience with Concrete Chimney Linings, Charles D. Durfee, PO2:Oct 69:193:6826

Use of Shotcrete from the Standpoint of the Designer, Cole R. McClure, SUSS:July 73:18

Use of Shotcrete from the Standpoint of the Contractor, Kirk H. Fox, SUSS:July 73:22

Lipids

Hydrolysis of Lipids in Wastewater, Gary R. Kramer, SA5:Oct 71:731:8418

Liquefaction

Analysis of Sheffield Dam Failure, H. Bolton Seed, Kenneth L. Lee and Izzat M. Idriss, SM6:Nov 69: 1453:6906

Borrego Mountain Earthquake of April 8, 1968, T. Leslie Youd and Robert O. Castle, SM4:July 70: 1201:7396

Bridge Foundation Behavior in Alaska Earthquake, Grant A. Ross, H. Bolton Seed and Ralph R. Migliaccio, SM4:July 69:1007:6664

Drained Liquefaction Testing in Simple Shear, Dennison J. Pickering, TN: SM12:Dec 73:1179: 10189

Dynamic LoadingP, Elio E. D'Appolonia, PISST:71: 141

Dynamic Loadings, Elio E. D'Appolonia, SM1:Jan 70:49:7010

Effect of Strain History on Liquefaction of Sand, W. D. Liam Finn, Peter L. Bransby and Dennison J. Pickering, SM6:Nov 70:1917:7670

Implementation of Foundation Design Criteria, Joseph L. Ehasz, Jr., and M. Temchin, SDNPF:Dec 73:99

Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133

Sand Liquefaction In Triaxial and Simple Shear Tests, W. D. Liam Finn, Dennison J. Pickering and Peter L. Bransby, SM4:Apr 71:639:8039

Sand Liquefaction Under Cyclic Loading Simple Shear Conditions, William H. Peacock and H. Bolton Seed, SM3:May 68:689:5957

The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE: Sept 72:95

Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10: Oct 73:849:10053

Simplified Procedure for Evaluating Soil Liquefaction Potential, H. Bolton Seed and Izzat M. Idriss, SM9: Sept 71:1249:8371

Soil Liquefaction by Torsional Simple Shear Device, Isao Ishibashi and Mehmet A. Sherif, GT8:Aug 74: 871:10752

Specimen Preparation and Liquefaction of Sands, Richard S. Ladd, TN: GT10:Oct 74:1180:10857

Test Procedures for Measuring Soil Liquefaction Characteristics, H. Bolton Seed and William H. Peacock, SM8:Aug 71:1099:8330

Liquefied Natural Gas

Prestressed Cryogenic Pipelines, Marvin B. Gardner, Jr., TE2:May 74:489:10559

Liquid Flow

Turbulent Flow of Non-Newtonian Suspensions in Pipes, V. R. Krishna Murthy and Iraj Zandi, EM1: Feb 69:271:6427

Liquidity Index

Property Interrelationships in Sensitive Clays, William N. Houston and James K. Mitchell, SM4: July 69:1037:6666

Liquid Level Indicators

Wind Loading and Wind Effects, Theme Report, Alan G. Davenport, TB:73:Ib-7-335

Liquid Limit

Classification of Argillaceous Soils and Rocks, Norbert R. Morgenstern and Kurt D. Eigenbrod, GT10:Oct 74:1137:10885

Liquid Limit Values by Soil Moisture Tension, Eugene R. Russell and L. Jack Mickle, SM3:May 70:967:7298

Litigation

Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64

Legal Aspects of Weather Modification, Palmer King, IR3:Sept 69:403:6782

Littoral Current

Computation of Alongshore Energy and Littoral Transport, Theodor R. Mogel, Robert L. Street and Byrne Perry, 12CEC:71:899

Edge Waves and the Littoral Environment, Anthony J. Bowen, CE13:72:II-1313

A Gross Longshore Transport Rate Formula, Cyril J. Galvin, Jr., CE13:72:II-953

Impact of Beach Nourishment on Distribution of *Emerita talpoioa*, the Common Mole Crab, Bruce Hayden and Robert Dolan, WW2:May 74:123: 10538

Interaction between Waves and Currents, Ivar G. Jonsson, Christian Skougaard and John D. Wang, 12CEC:71:489

Longshore Transport Computations, Eco W. Bijker, WW4:Nov 71:687:8546

A Radiological Approach to Littoral Drift Problems, Joseph H. Bittner, CEO-II:70:725

Time-Interval Photography of Littoral Phenomena, Dennis W. Berg and Eugene F. Hawley, CE13:72: II-725

Variation of Longshore Current Across the Surf Zone, Edward B. Thornton, 12CEC:71:291

Wave Refraction and Littoral Transport Computation, Theodor R. Mogel and Robert L. Street, WAVES:Sept 74:790

Littoral Drift

Beach Behavior, North Shore, Long Island Sound, Robert A. McCabe, WW4:Nov 70:781:7679

Case History of Mission Bay Inlet, San Diego, California, William J. Herron, Jr., CE13:72:II-801

Character and Stability of a Natural Tidal Inlet, Curtis Mason and Robert M. Sorensen, CE13:72:II-781

Characteristics of Shingle Beaches: The Solution to Some Practical Problems, A. M. Muir Wood, 12CEC:71:1059

A Class of Probability Models for Littoral Drift, William R. James, 12CEC:71:831

Coastal Sand Mining in Northern California, U.S.A., Orville T. Magoon, John C. Haugen and Robert L. Sloan, CE13:72:II-1571

Coastline Changes Near a Tidal Inlet, Emmanuel Partheniades and James A. Purpura, CE13:72:II-843

Computation of Alongshore Energy and Littoral Transport, Theodor R. Mogel, Robert L. Street and Byrne Perry, 12CEC:71:899

Crater-sink Sand Transfer System, Douglas L. Inman and Roland W. Harris, 12CEC:71:919

Distribution of Sediment Transport Across the Surf Zone, Edward B. Thornton, CE13:72:II-1049

The Effect of Groynes on Eroded Beaches, W. A. Price and K. W. Tomlinson, 12CEC:71:1053

Effects of Nonuniform Wave Energy in the Littoral Zone, Victor Goldsmith and Joseph M. Colonell, 12CEC:71:767

Estuary Inlet Channel Stabilization Study Using A Hydraulic Model, Theodore T. Lee, 12CEC:71: 1117

Forms of Erosion and Accretion on Cape Cod Beaches, Victor Goldsmith, Joseph M. Colonell and Peter N. Turbide, CE13:72:II-1277

A Gross Longshore Transport Rate Formula, Cyril J. Galvin, Jr., CE13:72:II-953

The History of the Dutch Coast in the Last Century, W. T. Bakker and D. Sj. Joustra, 12CEC:71:709

Hydraulic Model Experiment On Waste Diffusion In Tokyo Bay, Tonia Eemura, Masamitsu Onitsuka, Hiroshi Fukao and Fumio Yamaguchi, CEO-II:70: 247

Hydraulics and Sedimentary Stability of Coastal Inlets, Morrough P. O'Brien and Robert G. Dean, CE13:72:II-761

Impact of Beach Nourishment on Distribution of *Emerita talpoioa*, the Common Mole Crab, Bruce Hayden and Robert Dolan, WW2:May 74:123:10538

Influence of Grain Size on Littoral Drift, Jose Castanho, 12CEC:71:891

Laboratory Tests of Longshore Transport, John C. Fairchild, 12CEC:71:867

La Protection des Plages du Littoral du Lac Saint-Jean, Richard Bolvin and Yvon Cousineau, CE13:72:II-1485

Littoral Transport and Energy Relationships, L. Bajorunas, 12CEC:71:787

Longshore Transport Computations, Eco W. Bijker, WW4:Nov 71:687:8546

Longshore Transport of Suspended Sediment, John C. Fairchild, CE13:72:II-1069

Model Tests and Studies For Port Rashid, Dubai, Eric Loewy, 12CEC:71:1137

Offset Coastal Inlets, Miles O. Hayes, Victor Goldsmith and Carl H. Hobbs, III, 12CEC:71:1187

Processing and Analysis of Radioisotopic Sand Tracer (RIST) Study Data, H. R. Brashear, E. H. Acree, F. N. Case, P. A. Turner and David B. Duane, 12CEC:71:821

A Radiological Approach to Littoral Drift Problems, Joseph H. Bittner, CEO-II:70:725

Recent History of Erosion at Carolina Beach, N. C., Limberios Vallianos, 12CEC:71:1223

Seasonal Bottom Changes - Bolinas Bay, California, Joe W. Johnson, 12CEC:71:1383

Some Sand Transport Phenomena on Coasts with Bars, Mogens Dyhr-Nielsen and Torben Sorensen, 12CEC:71:855

The Spiral Wavemaker for Littoral Drift Studies, Robert A. Dalrymple and Robert G. Dean, CE13:72:I-689

Study of Mudbanks along the Southwest Coast of India, N. S. Moni, 12CEC:71:739

Suspended Sediment and Longshore Sediment Transport Data Review, Madan M. Das, CE13:72:II-1027

Synoptic Observations of Sand Movement, David B. Duane, 12CEC:71:799

Tidal Inlet Problems Along the New England Coast, Oscar E. Arpin, 12CEC:71:1171

Time-Interval Photography of Littoral Phenomena, Dennis W. Berg and Eugene F. Hawley, CE13:72:II-725

Transport Littoral: Essais et Calculs, J. P. Epetit, CE13:72:II-971

Turbulence in Hurricane-Generated Coastal Currents, Stephen P. Murray, 12CEC:71:2051

An Underwater Survey System for Radionuclide-tagged Sediment Tracing, E. H. Acree, H. R. Brashear and F. N. Case, 12CEC:71:815

Use of Crenulate Shaped Bays to Stabilize Coasts, Richard Silvester and Siew-Koon Ho, CE13:72:II-1347

Use of Volcanoes for Determination of Direction of Littoral Drift, Per Moller Bruun and Gisli Viggosson, 12CEC:71:935

Wave Refraction and Littoral Transport Computation, Theodor R. Mogel and Robert L. Street, WAVES:Sept 74:790

Littoral Zone

Computation of Alongshore Energy and Littoral Transport, Theodor R. Mogel, Robert L. Street and Byrne Perry, 12CEC:71:899

Edge Waves and the Littoral Environment, Anthony J. Bowen, CE13:72:II-1313

Effects of Nonuniform Wave Energy in the Littoral Zone, Victor Goldsmith and Joseph M. Colonell, 12CEC:71:767

Estimating Beam Size, Adrian J. Perez, CE:Dec 71:67

Influence of Grain Size on Littoral Drift, Jose Castanho, 12CEC:71:891

Littoral Transport and Energy Relationships, L. Bajorunas, 12CEC:71:787

Synoptic Observations of Sand Movement, David B. Duane, 12CEC:71:799

Variation of Longshore Current Across the Surf Zone, Edward B. Thornton, 12CEC:71:291

Live Loads

Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23

Dead, Live and Construction Loads, State-of-Art Report 3, Sidney M. Johnson, TB:73:Ib-5-59

Design Assumptions, C. K. Lalwani, TB:73:Ib-5-127

Dynamics of Cambered Rapid-Transit Bridge, Nelson M. Isada, ST7:July 69:1553:6701

Floor Loads, Emilio Rosenblueth, TB:73:Ib-5-121

Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478

Live Load Effects in Office Buildings, Robin K. McGuire and C. Allin Cornell, ST7:July 74:1351:10660

Loadings on Buildings, State-of-Art Report 2A, G. R. Mitchell, TB:73:Ib-5-19

Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, Kristoffer Apeland, TB:73:Ib-5-85

Some Aspects of Office Design Live Loads, Wilfred W.C. Siu and Niels C. Lind, ST11:Nov 73:2245:10159

Spatial and Temporal Variability of Live Loads, Jong-Cherng Peir and C. Allin Cornell, ST5:May 73:903:9747

Statistical Analysis of Live Load in Column Design, Ross B. Corotis, ST8:Aug 72:1803:9123

Stochastic Models and Live Load Surveys, State-of-Art Report 2B, William E. Greene, Jr., TB:73:Ib-5-35

Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128

Time-Dependent Maximum of Floor Live Loads, Abraham M. Hasofer, TN: EM10:Oct 74:1086:10856

Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, Kenneth H. Lenzen, TB:73:II-17-667

Load Control

The Future of Pumped Storage Generation in the Nuclear Power Age, Kenneth E. Sorensen, CE:Mar 69:66

Load Distribution

Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998

Stress Distribution Around Shallow Buried Rigid Pipes, Subhash C. Anand, ST1:Jan 74:161:10258

Load Factors

Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-Europian Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB:73:II-13-37

Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835

Load Factor Variables, James G. Mac Gregor, TB:73:III-26-935

Loading

Applications, State-of-Art Report 5, Pavel J. Marek, TB:73:II-19-869

Are the Codes Safe for Wind Pressure?, Clayton T. Crowe, Alfredo Barriga, John A. Roberson and William V. Taylor, TN: ST8:Aug 74:1745:10723

Bounds for Impulsively Loaded Plastic Structures, John B. Martin and Alan R.S. Ronter, EM1:Feb 72:107:8745

Collapse Load Analysis of Frames Considering Axial Forces, M. Z. Cohn and Tariq Rafay, EM4:Aug 74:773:10757

Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127

Design and Performance of Deep Foundations, Bramlette McClelland, PES:73:II-111

Design and Performance of Deep Foundations -- Reporter's Summary, Pablo Girault, PES:73:III-211
Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409
Limit Pressures of Rigidly Clamped Circular Cylindrical Shells, Hwa-Shan Ho, EM4:Aug 74:757:10759
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
Loading Function, State-of-Art Report 2, John Strating, TB:73:II-19-849
Loads and Load Combinations, State-of-Art Report 4, Horea Sandi, TB:73:Ib-10-973
Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56
Probability Distribution of Maximum Sustained Load, David T. Bickley, TN: ST11:Nov 74:2361:10904
Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001
Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1
Structural Failures: Modes, Causes, Responsibilities, Neal FitzSimons, Chmn., STF:73, 111pp.
Surface Loading in Open-Top Tanks, James F. Marchman, III, TN: ST11:Nov 70:2551:7690
Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73:2123:10055
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723

Loading Procedures
Loads and Load Combinations, State-of-Art Report 4, Horea Sandi, TB:73:Ib-10-973
Spatial and Temporal Variability of Live Loads, Jong-Cherng Peir and C. Allin Cornell, ST5:May 73:903:9747
Transportation Within Airports, Howell H. Herbert, TE2:May 69:259:6536

Loading Rate
Control of Ice Jams at Barrett Chute G.S., David R. Townsend, PO3:July 71:597:8244
Influence of Loading Rate on Rock Response, Dale E. Stephenson and George E. Triandafilidis, GT2:Feb 74:101:10367
Loads and Load Combinations, State-of-Art Report 4, Horea Sandi, TB:73:Ib-10-973
A Path Criterion for Deformation Plasticity Theory, Kerry S. Havner, EM3:June 69:747:6630
Strain Rate Effects in Particulate-Filled Epoxy, Larry W. Oline and Russell Johnson, EM4:Aug 71:1159:8314

Loading Tests
Fatigue Damage of Asphalt under Compound-Loading, James McElvaney and Peter S. Pell, TE3:Aug 74:701:10730
Large Scale Triaxial Tests on Rock, Madan M. Singh and Peter J. Huck, RM14:73:35
Load Tests on Small Foundations in Soft Clay, Edward W. Brand, Chai Muktabhant and Anan Taechathummarak, PES:72:I-903
Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63
Rock Mechanics Studies--Mica Project, B.C., Paul Meidal and R. Kenneth Dodds, URC:72:203
Structural Reaction Dynamometers, M. Daniel Vanderbilt, ST6:June 71:1701:8188
Tocks Island Project Spillway Rock Mechanics Studies, A. Depman, K. Dodds and D. Parrillo, RM13:72:443
Torque Shear Test For Cylindrical Friction Piles, Ulrich W. Stoll, CE:Apr 72:63

Loads (Forces)
The Allowable Settlement and the Design of Foundations, Fernando Emmanuel Barata, 4PCSM:71:II197
Along-Wind Response of Large Bluff Buildings, Julius Solnes and Ragnar Sigbjornsson, ST3:Mar 73:381:9585
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291
An Analysis of Consolidation Theories, Robert L. Schiffman, Albert T-F Chen and Jane C. Jordan, SM1:Jan 69:285:6370
Analysis of Undrained Behavior of Loads on Clay, Richard M. Simon, John T. Christian and Charles C. Ladd, GT74:June 74:51
Analytical Model for Lateral Load Effect on Buildings, Bernardo J. Deschapelles, ST6:June 70:1025:7328
Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234
Automatic Design Of Shell Structures, Peter G. Smith and Edward L. Wilson, EC5:70:289
Bearing Capacity Factors for Inclined Loads, N. S.V. Kameswara Rao and S. Krishnamurthy, TN: SM11:Nov 72:1286:9312
Bearing Strength of Concrete--Geometric Variations, Sanat Kumar Niyogi, ST7:July 73:1471:9853
Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709
Behavior of Reinforced Concrete under Repeated Load, Boris Bresler and Vitelmo V. Bertero, ST6:June 68:1567:6013
Behavior Under Load of Composite Box-Girder Bridges, Alan H. Mattock and Sterling B. Johnston, ST10:Oct 68:2351:6168
Bigger Bridge Loads Coming-Will We Be Ready, Arthur L. Elliott, CE:Feb 69:52
Body-Force Stresses in Gravity Structures, Rowland Richards, Jr. and Werner E. Schmid, SM1:Jan 68:205:5749
Braced Excavations, T. William Lambe and Edmund K. Turner, LS:70:149
Breaking Load for Rigid Pavement, K. K. Ghosh and M. Dinakaran, TE1:Feb 70:87:7108
Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812
Buckling of Naturally Curved and Twisted Beams, Irving U. Ojalvo and Malcolm Newman, EM5:Oct 68:1067:6156
Buckling of Partially Embedded Piles in Sand, Kenneth L. Lee, SM1:Jan 68:255:5754
Buckling Under Compressive and Tensile Load, Aron Zaslavsky, TN: ST10:Oct 70:2257:7572
Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
The Business and Practice of Foundation Engineering in Venezuela, Gustavo Perez Guerra, 4PCSM:71:II379
Circular Plate with Supported Edge-Beam, Rene Amon and John Dundurs, EM3:June 68:731:5971
Collapse Load of Reinforced Concrete Footings, George G. Meyerhof and Kanakapura S. Subba Rao, ST5:May 74:1001:10531
Collapse Loads For Continuous Slabs With Orthotropic Reinforcement, B. Vijaya Rangan, TN: ST9:Sept 72:2149:9162
Commentary on Structural Standards, Summary Report, Ira Hooper, TB:73:II-13-147
Commentary on Structural Standards, Summary Report, Emory L. Kemp, TB:73:III-20-139
Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), H. Rubin, TB:73:II-17-709
The Computer's Role in Transmission Line Design, Charles F. Beck, EC5:70:63
Concrete Bearing Strength—Support, Mix, Size Effect, Sanat Kumar Niyogi, ST8:Aug 74:1685:10765
Concrete Design Standards in Arab Countries, State-of-Art Report 6, Jacques Nasser, TB:73:III-20-113

Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655

Cost Optimization of Welded Plate Girders, Natarajan Anpamalai, Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258

Coupled Walls Subjected To Discontinuous Distributed Loads, Ian J. Jordaan and Robert E. Loov, TN: ST7:July 72:1675:9069

Cracking and Crack Control, State-of-Art Report 1, Peter Gergely, TB:73:III-24-645

Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1

Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87

Cylindrical Shell Subject to Longitudinal Line Load, Amir K. Naghdi, EM5:Oct 70:653:7617

Dead, Live and Construction Loads, State-of-Art Report 3, Sidney M. Johnson, TB:73:Ib-5-59

Deep Beam on Statically Indeterminate Supports, Prabhakara Bhatt, EM4:Aug 73:793:9902

Design Assumptions, C. K. Lalwani, TB:73:Ib-5-127

Design Criteria for Turbine-Generator Pedestals, Asadour H. Hadjian, PO1:Jan 70:1:6991

Design Developments - Asia & Australia, State-of-Art Report 4, Leonard K. Stevens, TB:73:Ib-7-399

Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407

Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423

Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256

Design of Steel Transmission Pole Structures, Gene M. Wilhoite, ST12:Dec 74:2449:11009

Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71:2023:8599

Drag or Along-Wind Response of Slender Structures, Barry J. Vickery and Kwan H. Kao, ST1:Jan 72:21:8635

Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344

Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73:III-23-537

Effect of Shear and Load Behavior on Ring Stability, C. V. Smith, Jr. and G. J. Simitses, EM3:June 69:559:6607

Elastic Analysis-Strength of Members and Connections, Summary Report, Bruno Thurlimann, TB:73:III-21-325

Elastic Buckling of Two Component Columns, Yu-wen Hsu, EM3:June 69:611:6612

Electric Transmission Tower Design, Matthew Marjerrison, PO1:May 68:1:5932

Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79

External Blast, State-of-Art Report 7, Nathan M. Newmark, TB:73:Ib-8-661

Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980

Failure of Rock Under High Rate Tensile Loads, D. A. Shockey, C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709

Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818

Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475

Flexural Rigidity of Concrete Column Sectione, Ian C. Medland and Donald A. Taylor, ST2:Feb 71:573:7933

Floor Loads, Emilio Rosenblueth, TB:73:Ib-5-121

General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67

Gravity Loads and Temperature Effects, Summary Report, David E. Allen, TB:73:Ib-5-145

Gravity Loads and Temperature Effects, Theme Report, Raymond C. Reese, TB:73:Ib-5-5

Guide for the Design of Aluminum Transmission Towers, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457

Hangar Features Stressed-Skin Hypars, Charles H. Thornton and Richard L. Tomasetti, CE:Nov 70:54

Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, Eugene P. Holland, TB:73:III-25-805

How Safe Are Your Towers?, Joseph R. Arena, ST1: Jan 70:1:6994

Impact and Dynamic Load Effects, State-of-Art Report 4, Masanori Izumi, TB:73:Ib-5-77

Impact from Railway Loading on Steel Girder Spans, William G Byers, ST6:June 70:1093:7341

Impact Loading Of Submersible Hulls, Frederick John Dzialo, CEO-II:70:487

Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563

Impulsive Load Stiffness of Flexible Pavements, Nelson M. Isada, SM2:Mar 70:639:7176

Inelastic Behavior of H-Columns Under Biaxial Bending, Gunnar A. Harstead, Charles Birnstiel and Keh-Chum Leu, ST10:Oct 68:2371:6173

Inelastic Response for Arbitrary Histories of Loads, Frank Baron and Mahadeva S. Venkatesan, EM3: June 69:763:6634

Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957

Interaction of Aircraft and Ground Structure, Nai C. Yang, ST6:June 70:1119:7360

Interaction of Waves with Submerged Objects, C. J. Garrison and V. Seetharama Rao, WW2:May 71:259:8111

Internal Blast, State-of-Art Report 6, Rowland J. Mainstone, TB:73:Ib-8-643

Irregular Shaped Plates with Singularities, David H. Geiger, EM5:Oct 71:1533:8458

Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359

Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271

Large Deflections of Arbitrarily Loaded Plated, Mandanapalli K. Prabhakara and Chun-Yuan Chia, TN: EM6:Dec 74:1282:10979

Large Diameter Pipe Under Combined Loading, Jack G. Bouwkamp and R. M. Stephen, TE3:Aug 73:521:9907

Lateral-Load Analysis of Asymmetric Multistory Structures, Jacob Gluck, ST2:Feb 70:317:7089

Least-Weight Frameworks for Loads Across Span, Richard E. McConnel, EM5:Oct 74:885:10872

Limit Analysis of Plates Under Combined Loads, Kenneth W. Neale and Niels C. Lind, EM5:Oct 70:711:7610

Limit Analysis Of Plates Under Concentrated Load, Philip V. McLaughlin, Jr., TN: EM4:Aug 70:509:7444

Limit Design of Reinforced Concrete Frames, M. Z. Cohn, ST10:Oct 68:2467:6197

Load Balancing Analysis of Cable Stayed Bridges, Benjamin E. Lazar, Michael S. Troitsky and Matthew McC. Douglass, ST8:Aug 72:1725:9122

Load Distribution in Multiple-Bolt Tension Joints, Calvin O. Cramer, ST5:May 68:1101:5939

Load Factor (Limit States) Design, Summary Report, William C. Hansell and Ivan M. Viest, TB:73:II-19-899

Load Fluctuations in Turbulent Flow, Barry J Vickery, EM1:Feb 68:31:5782

Loading Function, State-of-Art Report 2, John Strating, TB:73:II-19-849

Loadings on Buildings, State-of-Art Report 2A, G. R. Mitchell, TB:73:Ib-5-19

Loadings on Large Piers in Waves and Currents, Hsiang Wang, 12CEC:71:1491

Loads and Load Combinations, State-of-Art Report 4, Horea Sandi, TB:73:Ib-10-973
Lower Strength Steel Brittle Fracture Assessment, Mohammed H. Magued and D.J. Laurie Kennedy, ST5:May 74:983:10551
Measured Performance of Braced Excavation, T. William Lambe, L. Anthony Wolfskill and Ing H. Wong, SM3:May 70:817:7307
Minimum Cover for Buried Flexible Conduits, Reynold K. Watkins, Massood Ghavami and G. Reed Longhurst, PL1:Oct 68:155:6195
Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63
New Concepts in Consolidation and Settlement Analysis, John Lowe, III, GT6:June 74:571:10623
Nonlinear Elastic Truss Analysis Partitioning, N. M. Singaraj and Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364
Nuclear Power Plant Tornado Design Considerations, James A. Dunlap and Karl Wiedner, PO2:Mar 71: 407:7949
Overloads on Japan's 130 mph Railroad Structures, Tatsuo Nishiki and Shunta Shiraishi, ST6:June 70: 1017:7325
Performance of Bracing for Deep Chicago Excavation, Edwin Paul Swatek, Jr., Sherwin P. Asrow and Arthur M. Seitz, PES:72:I-1303
Pile-Driving Formulas For Friction Piles in Sand, Roy E. Olson and Kaare S. Flaate, SM6:Nov 67: 279:5604
Ponding of Liquids on Flat Roofs, J. Chinn, A. H. Mansouri and Staley F. Adams, ST5:May 69:797: 6539
Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andrew Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Probability of Plastic Collapse Failure, James L. Jorgenson and John E. Goldberg, ST8:Aug 69:1743: 6751
Progressive Collapse, Abnormal Loads, and Building Codes, David E. Allen and William R. Schriever, STF:73:21
Progressive Collapse Risk, Norman F. Somes, TB:73: Ib-8-727
Rectangular Loads on Inhomogeneous Elastic Soil, Peter T. Brown and Robert E. Gibson, TN: SM10: Oct 73:917:10042
Rectangular Plates with Elastic Edge Supports, Suresh T. Gulati and Walker M. Buehl, TN: EM4: Aug 70:521:7444
Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, Kristoffer Apeland, TB:73:Ib-5-85
Regression Model of Wave Forces on Ocean Outfalls, Ronald E. Johnson, WW2:May 70:289: 7275
Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365
Research Review -- Europe and Africa, State-of-Art Report 2, H. Van Koten, TB:73:Ib-7-375
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Response of Cooling Tower to Turbulent Wind, Noel J. Gardner, ST10:Oct 69:2057:6812
Response of Ocean Based Structure To Water-Shock Waves, Young C. Kim, CEO-II:70:93
Response of Triangular Prisms in Turbulent Wind, Peter W. Chen, Alan G. Davenport, Nicholas Isyumov and Leslie E. Robertson, ST11:Nov 71: 2679:8526
Response of Vertical Cylinder to Random Waves, John H. Nath and Donald R.F. Harleman, WW2: May 70:373:7285
Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45
Safe Limit Loading of Folded Plate Structures, Morris N. Fialkow, ST10:Oct 72:2181:9249
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215: 10128
Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695
Significance and Application of Stub Column Test Results, Ching K. Yu and Lambert Tall, ST7:July 71:1841:8231
Skin Friction For Steel Piles in Sand, Harry M. Coyle and Ibrahim H. Sulaiman, SM6:Nov 67:261: 5590
Sports Palace for 1968 Olympic Games, D. R. Fernandez, CE:Oct 69:45
Stability of Edge-Reinforced Circular Plate, Rene Amon and Otto F. Widera, TN: EM5:Oct 71:1597: 8412
Stability of Trusses Subjected to Ponding Loads, Ta Chao, TN: ST6:June 73:1327:9767
Statistical Model for Live Floor Loads, Abraham M. Hasofer, ST10:Oct 68:2183:6146
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593: 8143
Strength of Square-Tube Connections Under Combined Loads, Roger L. Brockenbrough, ST12: Dec 72:2753:9425
Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
Stresses at Different Depths Below Loaded Area, N. S.V. Kameswara Rao and M. R. Maohav, TN: SM2:Mar 70:779:7117
Stresses Due to Strip Loads on Incompressible Soil, Robin N. Chowdhury and George J.W. King, TN: SM12:Dec 72:1433:9399
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151
Structural Response to Sonic Booms, Roland L. Sharpe and Garrison Kost, ST4:Apr 71:1157:8063
Structures In Soil Under High Loads, Jay R. Allgood, SM3:Mar 71:565:8006
Summary Report on Experimental Evaluation of Simulated Uncased Pipeline Crossings of Railroads and Highways, Everett C. Rodabaugh, Thomas J. Atterbury and G. L. Hinueber, UPC:Apr 71
Symmetry in Structural Mechanics, Peter G. Glockner, ST1:Jan 73:71:9475
Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386
Tapered Cantilevers with Varying Distributed Loads, Tung-Ming Wang and Chun-Hsiung Lee, TN: EM4: Aug 73:919:9898
Temperature Loads, State-of-Art Report 6, Lin Y. Huang, TB:73:Ib-5-97
Thin-wall Pile Driven by Improved Technique, Fredric Rusche, CE:Jan 71:54
Unreinforced Masonry Load-Bearing Walls, Kenneth P. Buchert, CE:Dec 73:64
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
Vertical Stresses Due to Deep Foundations, Abraham Ellstein and Leonard Rapoport, 4PCSM:71:II243
Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603
Wind Loading and Wind Effects, Summary Report, S. Mackey, TB:73:Ib-7-445
Wind Loading and Wind Effects, Theme Report, Alan G. Davenport, TB:73:Ib-7-335
Wind Tunnel Test Expectations, W. H. Melbourne, TB:73:Ib-7-441

Local Government
The Legislation of Balance, Milton Pikarsky, TE3: Aug 73:483:9938
NACE Paper: County Engineering Career Demands, David L. Weir, CEE:Feb 74:1-354
Opportunities in Changing Federal System, Larry Rice, UP1:Mar 74:73:10423
Politics Of Water Resources Development, Daniel M. Ogden, Jr., SEA:70:353

Student Assistance for Local Governments, Lansford C. Bell, CEE:Feb 74:1-143

Local Governments

Residential-Recreation Development, Alan T. Hill, CE:Dec 71:60

Locating

Research on Safety and Locational Criteria for Bicycle Facilities, Daniel T. Smith, Jr., BP73:Dec 73:134

Locks (Fasteners)

Bicycle Theft: The Problem and The Prevention, Raymond N. Seakan, BP73:Dec 73:496

Locks (Waterways)

Analysis of Pile-Supported Gravity Lock, Chandrakant S. Desai, Lawrence D. Johnson and Charles M. Hargett, GT9:Sept 74:1009:10789

Barge Transportation-Energizer of Production and Marketing, Braxton B. Carr, WW2:May 69:163:6559

Computer Model for a Lock Manifold System, James S. Windsor and Herman Vallee, WW2:May 69:149:6553

Density Currents and Turbulent Diffusion in Locks, A. Roy Halliwell and Martin O'Dell, 12CEC:71:1959

Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314

Economic Location of Locks, Eric E. Bottoms, TE1:Feb 69:77:6397

Emergency Grouting of Old River Low Sill Structure, La., E. Burton Kemp, EFFD:Mar 74:371

Filling System For Lower Granite Lock, George C. Richardson, WW3:Aug 69:275:6718

Finite Element Analyses of Port Allen Lock, James M. Duncan and Gerald W. Clough, SM8:Aug 71:1053:8317

Fluid Mechanics and Lock Design, John S. McNown, WW3:Aug 67:9:5365

Great Falls Canal and Locks: Civil Engineering Landmark, CE:Nov 72:53

Highlights — Foundation Exploration and Design — Locks and Dam No.26 (Replacement), Bruce H. Moore, EFFD:Mar 74:11

History and Future of Ohio River Navigation, Carl H. Gaum, WW2:May 70:483:7304

Lateral Load Tests on Piles-Arkansas River Project, Mahmood M. Alizadeh and Melvin T. Davisson, SM5:Sept 70:1583:7510

Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387

Model Study of Laterally Loaded Piles, Melvin T. Davisson and James R. Salley, SM5:Sept 70:1605:7511

Pile Tests-Arkansas River Project, Charles I. Mansur and Alfred H. Hunter, SM5:Sept 70:1545:7509

Problems of Inland Waterway Lock Dimensions, John P. Davis, WW2:May 70:451:7295

Replacement-Lock and Dam No. 26: Condition of Existing Structure, Daniel P. Marshall, Jr., WW1:Feb 70:27:7097

Replacement-Lock and Dam No. 26: History, Objectives and Scope, Edwin R. Decker, WW1:Feb 70:1:7070

Replacement-Lock and Dam No. 26: Lock Capacity Procedure and Scope, Anson G. Eickhorst and DuWayne A. Koch, WW1:Feb 70:15:7094

Replacement-Lock and Dam No. 26: Plans Considered, Richard C. Armstrong, WW1:Feb 70:49:7071

Replacement-Lock and Dam No. 26: Projecting Waterborne Commerce-Inland Navigation, DuWayne A. Koch, WW1:Feb 70:9:7100

River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1:Jan 74:1:10281

Simulation of Waterway Transport Systems, Joseph L. Carroll and Michael S. Bronzini, TE3:Aug 71:527:8311

Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9:Sept 73:1531:10004

Suction Wells Dewater Large Construction Site, Robert G. Lenz, CE:Feb 70:40

Surge Problems in Canals with High-Lift Locks, Donald M. Liddell, WW2:Nov 69:467:6898

Temperature Effects on Behavior of Port Allen Lock, Gerald W. Clough and James M. Duncan, PES:72:I-1467

Tonnage Capacity of Locks, John P. Davis, WW2:May 69:201:6577

TVA Dam Inspection Activities, Lloyd W. Lundin, IMROD:Sept 74:39

Lodgepole Pine Trees

Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623

Leaching of Pollutants from Wood-Chip Slurry, Takashi Asano, Alan T. Towlerton and Robert L. Sanks, EE4:Aug 74:855:10707

Loess

Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, IAWM:72:165

Logical Elements

Constraint Processing In Design, Richard N. Wright, Leroy T. Boyer and John W. Melin, EC5:70:801

Formulation Of Decision Logic Tables, Jimmy L. Noland and Chuan C. Feng, EC5:70:731

Logic Circuits

Formulation Of Decision Logic Tables, Jimmy L. Noland and Chuan C. Feng, EC5:70:731

Logic Design

Constraint Processing In Design, Richard N. Wright, Leroy T. Boyer and John W. Melin, EC5:70:801

Longitude

Evaluation of Antarctic Star Observations, John C. Albright and James L. Clapp, SU2:Sept 68:81:6092

Long-Term Planning

A Modern Metropolis Looks Ahead, William D. Hudson, TE4:Nov 74:801:10918

Loose Soils

Theories of Closure of Rockfill Dams, John A. Sandover, CO2:Nov 71:313:8542

Louisiana

Deterioration and Restoration of Coastal Wetlands, Sherwood M. Gagliano, Hyuck J. Kwon and Johannes L. van Beek, 12CEC:71:1767

Flushing Pattern of Non-reactive Effluents, Adel M. Kamel, 12CEC:71:1867

Foundation Design of the Waterford Nuclear Plant, Joseph L. Ehasz, Jr. and E. Radin, SDNPF:Dec 73:83

The Louisiana Superdome; World's Most Versatile Building, Mark C. Carrigan, CE:Nov 74:50

One Shell Square, Skidmore, Owings & Merrill, TB:73:C-P-490

Temperature Effects on Behavior of Port Allen Lock, Gerald W. Clough and James M. Duncan, PES:72:I-1467

Low Flow

Hydrology of 7-Day 10-Year Low Flows, Krishan P. Singh and John B. Stall, HY12:Dec 74:1753:11013

Low-Flow Augmentation

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827:9304

Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214

Low Pressure
Economic Design of Low Pressure Air Piping Systems, J. Michael Osborne, EE6:Dec 74:1263: 11031

Lubrication
Strain Conditions in Compression Cylinder, William M. Kirkpatrick and J. Scott Younger, SM5:Sept 70: 1683:7504

Luminaires
High-mount Interchange Lights, Richard C. LeVere, CE:May 71:44
Major Research Studies on Signs, Lights and Guardrails, James R. Novak and Krieger W. Henderson, Jr., TE4:Nov 70:523:7663

Lunar Crust
Behavior of Returned Lunar Soil in Vacuum, W. David Carrier, III, Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156

Lunar Dust
Apollo 11: Soil Mechanics Results, Nicholas C. Costes, W. David Carrier, III, James K. Mitchell and Ronald F. Scott, SM6:Nov 70:2045:7704
One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF: Aug 72:641

Lunar Environment
Engineering for the Lunar Environnent, R. B. Carpenter, Jr., J. M. Mansfield and D. J. Stone, ESE:Apr 70:163

Lunar Geology
The Nature of Lunar Soil, W. David Carrier, III, James K. Mitchell and Arshud Mahmood, SM10: Oct 73:813:10099
One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF: Aug 72:641

Lunar Landing
Lunar Landing Site Assessment, James H. Sasser, ESE:Apr 70:109

Lunar Photography
Surveying and Mapping from Orbital Platforms, Kam W. Wong, SU1:May 74:15:10529

Lunar Structure
Engineering for the Lunar Environnent, R. B. Carpenter, Jr., J. M. Mansfield and D. J. Stone, ESE:Apr 70:163
The Nature of Lunar Soil, W. David Carrier, III, James K. Mitchell and Arshud Mahmood, SM10: Oct 73:813:10099

Lunar Surface Vehicles
Lunagem--A Lunar Mobility Aid, E. V. Rutkowski, ESE:Apr 70:17
Lunar Roving Vehicle, ESE:Apr 70:1

Lunar Topography
Engineering for the Lunar Environnent, R. B. Carpenter, Jr., J. M. Mansfield and D. J. Stone, ESE:Apr 70:163

Lung Abscesses
Air Pollution -- A Chest Physician's View, Anne Logan Davis, CEWAU:74:141

Lyapunov Functions
Stability of Cylindrical Shells under Random Excitation, John A. Lepore and Robert A. Stoltz, EM3:June 74:531:10628

Machine Design
Volume Changes in Sands During Cyclic Loading, Marshall L. Silver and H. Bolton Seed, SM9:Sept 71:1171:8354

Machine Foundations
Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175
Dynamic Response of Embedded Machine Foundations, Kenneth H. Stokoe, II and Frank E. Richart, Jr., GT4:Apr 74:427:10499
Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29

Machinery
Session V: Dynamic Loadings (Earthquakes, Machinery), John R. Hall, Jr., PISST:71:135

Magnesium Oxides
Iron Removal Using Magnesium Oxide, John T. O'Connor and Barrett E. Benson, SA6:Dec 70: 1335:7740

Magnetic Separators
Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437

Magnitude
Characteristics of Rock Motions During Earthquakes, H. Bolton Seed, Izzat M. Idriss and Fred W. Kiefer, SM5:Sept 69:1199:6783

Maintenance
Bridge Deck Protection and Resurfacing, Roland A. Pettitt, ST4:Apr 70:791:7217
Construction and Maintenance, Howard Gregg, BP73:Dec 73:155
Criteria for Maintenance of Multilane Highways, Committee on Construction, Maintenance, and Operation of Highways, Lloyd G. Byrd, Chmn., HW1:June 68:43:5986
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Dumbarton Bridge Renewal, H. M. Williamson and T. L. Fuller, CE:July 69:44
Eads Bridge Repaired by Jacking, Bernard H. Spinner, CE:June 71:50
EBMUD's Programs for Inspection and Remedial Treatment of Old Dams, Walter F. Anton, IMROD:Sept 73:829
Electricite de France Experiences and Practice in Safety Inspections of Old and New Dams, A. J. Taillebot, IMROD:Sept 73:229
Engineering Aspects of Wastewater Contracts, Samuel I. Zack, SA3:June 69:465:6602
External Blast, Stanislaw Kajfasz, TB:73:Ib-8-717
External 'Shell' Stops Soil Movement and Saves Tunnel, Joseph P. Nicoletti and James M. Keith, CE:Apr 69:72
A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
Floating Dry Docks for Ship Launching, Kenneth R. Broome and William S. Gaither, WW1:Feb 70:121: 7110
Foundation Seepage Control Options for Existing Dams, Lloyd R. Gebhart, IMROD:Sept 73:660
Hardinge Bridge Span Repair, Amitabha Ghosal, Jagadish C. Ganguly, Himangsu K. Banerjee and Mahesh P. Kapoor, CO4:Dec 74:631:11034
Inspection, Maintenance and Remedial Treatment: San Francisco Water Department, Julian L. Bardoff and Paul T. Matsumura, IMROD:Sept 73:849
A Kansas County Replaced Old Bridges Economically, John W. Frazier, CE:Jan 70:68
Maintenance and Repairs of Ancillary Equipment, Dale H. Doble, IMROD:Sept 73:451
Maintenance of Bicycle Facilities - An Overview, Thomas A. Gawley and Walter H. Kraft, BP73:Dec 73:143

Management System Saves Highway Maintenance Dollars, Forrest E. Crawford, CE:Aug 71:36
Managing Canal System for Water Quality Control, Thomas L. Huntzinger and James H. Taylor, IRS: Sept 72:171
Mechanical Equipment Problems on Old Dams, Fred Engstrom, IMROD:Sept 73:440
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
New Role of Engineers as Trained Divers, Thomas E. Morris, IRS:Sept 72:257
Now That You Have One, What Have You Done For Your Bikeway Lately?, John M. Freiermuth, BP73:Dec 73:151
Opening Remarks, Ellis L. Armstrong, IMROD:Sept 73:1
Operation and Maintenance of an Irrigation District in an Urbanizing Environment, R. E. Moore, D. L. Weesner and T. M. Sabin, IRS:Sept 72:243
Operation and Maintenance of Colorado Aqueduct, Henry J. Mills, IR1:Mar 71:203:8007
Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71: 601:8613
Performance Of Nonhomogeneous Clay Core, Remy L.A. de Jong, TN: SM8:Aug 72:855:9085
Rapid Concrete Pavement Replaced in 1-1/2 Hours, Jens E. Simonsen, CE:Apr 74:62
Rehabilitation of Dams: Retrospect and Prospect, Gilbert G. Stamm, IMROD:Sept 73:4
Repair of Earthquake Damaged Underground Reservoir, Daniel J. Smith, Jr., CO3:Sept 74:449: 10825
Repair of Steel Structures After Fire, Roger H. Wildt, TB:73:Ib-8-688
Safety Appraisal of Old Dams: An Updated Perspective, Gurmukh S. Sarkaria, IMROD:Sept 73:405
Spillway Stilling Basin Repair Using Bonded Concrete and Epoxy Mortar, James R. Graham, OIDS:72:185
Stability of Old Dams as Related to Their Foundations, Karl V. Taylor, IMROD:Sept 73:688
States' Experience and Their Problems, Robert B. Jansen, IMROD:Sept 73:77
Strengthening of John Hollis Bankhead Dam, F. G. Thompson, CE:Dec 69:75
Submarine Floats in Steel Pipe Liner, Merrill R. Cotten, CE:Dec 70:28
Summary of the Session on International Experiences, Jack C. Jones, IMROD:Sept 73:262
Supervision of Dams at the Swedish State Power Board, Karl Arthur Scherman and S. Nylander, IMROD:Sept 73:157
The Undersea Aqueduct -- A New Concept in Transportation, Ellis L. Armstrong, TE2:May 72: 303:8893
Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514
Weed Control in Arid Southwest, James W. Kirby and A. Darrell Summers, IR4:Dec 71:571:8570
The Yankee Stadium, Alfred C. Maevis, CEWAU:74: 86

Management

Airports -- Challenges of the Future, Raymond J. Hodge, Chmn., ASC73:73, 213pp.
American Engineering Unions, Hatim M. Hajj, PP2: Apr 73:213:9657
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Animal Wastes--A National Problem, Raymond C. Loehr, SA2:Apr 69:189:6493
An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB: 73:Ia-4-797
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
Bidding--Work Loading Game, Paul E. Torgersen, Richard M. Wyskida and Leonard S. Yarbrough, CO2:Oct 68:127:6141
Building Construction Games-General Description, Tung Au and Ernest W. Parti, CO1:July 69:1:6645
Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Business Failures in Construction, John B. Shuler, CO2:Sept 67:73:5453
Can Decision-Making Be Taught?, John B. Scalzi, CE:July 70:37
Civil Engineering: An Education for Professional Management, Boyd C. Paulson, Jr., CEE:Feb 74:1-580
Civil Engineering Education: A Preparation for Management, John A. Havers, PP1:Sept 70:1:7544
Civil Engineering Management in Private Practice, Elmer K. Timby, PP1:July 69:17:6661
Civil Engineering Management in Public Practice, Samuel S. Baxter, PP1:July 69:23:6662
Client Relations, Chandler P. Young, EPMT:73:63
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
Commentary, Warren Friedman, CEWAU:74:117
A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489
Construction Expediting, Arthur Monsey, CO1:June 70:19:7356
Construction Planning in South East Asia, Omar E. Rood, Jr. and John L. Richards, CO2:Sept 72:331: 9217
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Control of the Construction Process, State-of-Art Report 2, Richard C. Halpern, TB:73:Ia-4-689
Coordinated Operation of Central Valley and State Water Projects, Welby R. Madsen and David G. Coleman, HY10:Oct 74:1399:10887
Critique of Water Pollution Control Act, Anthony H.J. Dorcey and Irving K. Fox, EE1:Feb 74:141: 10326
Design Conduit System By Dynamic Programming, Rex K. Liang, CO1:Mar 71:383:7998
The Dilemma of an Engineering Manager in a Professional Engineering Firm, Vernon E. Swanson, CE:July 69:56
Economics of High-Rise Buildings, State-of-Art Report 4B, Walter F. Conlin, Jr., TB:73:Ia-1-119
Educating Public Works Engineers and Administrators, Donald C. Stone, CEE:Feb 74:1-679
Educational Needs for Engineering Practice and Recommended Follow-Up Program (Discussion), George J. Kral, CEE:Feb 74:2-345
Education for Construction Engineering and Management, John A. Havers and Donn E. Hancher, CEE:Feb 74:1-662
Effective Contract Administration in Construction Management, Donald F. Scott, CO2:June 74:117: 10599
Effective Project Management Techniques, Robert P. Wadell, Chmn., EPMT:73, 77pp.
Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Engineering Aspects of Wastewater Contracts, Samuel I. Zack, SA3:June 69:465:6602
Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
Engineering Managers: Key to Cutting Labor Costs, Howard M. Taylor, CE:June 71:41
Environmental Management Broadening the Base of Civil Engineering Education, William H. Matthews, CEE:Feb 74:1-518
Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408
Financial Considerations of Effective Project Management Techniques, Marion T. Hvidt, EPMT: 73:71
Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85
Formal Education in Construction Management, Abraham Warszawski, CO2:Sept 72:251:9164

Four-Day Week and Transportation, Vincent R. Desimone, TE3:Aug 72:705:9116
Graduate Management Curricula for Experienced Engineers, William D. Brinckloe, Alfred C. Ingersoll and Ricardo Gonzales, Jr., CE:Sept 74:99
How A Construction Industry Organization Provides Educational Opportunities, Maynard Charles Nugent, CEE:Feb 74:1-865
Impact of Metrication on the Construction Industy, Richard H. Clough, EI3:July 74:225:10646
Information Utilization in Project Planning, Donald E. Kawal, CO2:Nov 71:227:8505
An Innovative A.S.C.E Student Chapter Structure, Vincent P. Drnevich, CEE:Feb 74:1-988
Interagency Approach to Watershed Problems Of Eel River, Eugene F. Serr, IR1:Mar 71:181:7983
Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211
Management: A Key to Irrigation Efficiency, Leonard J. Erie, IR3:Sept 68:285:6107
Management Defined, Characteristics, and Human Behavior, Leon K. Madsen, EPMT:73:1
Management Degree Program for Employed Public Works Directors, A. Morgan Johnson, CEE:Feb 74:1-728
Management Education for Civil Engineers, Stephens W. Nunnally and William H. Wisely, CEE:Feb 74:1-696
Management in the Construction Industry --A New M.I.T. Program, William A. Litle, CEE:Feb 74:1-589
Management of Solid Waste-The Utility Concept, Robert M. Clark, Richard O. Toftner and Thomas W. Bendixen, SA1:Feb 71:33:7875
Management Structure for Irrigation, Richard A. Smith, IR4:Dec 70:475:7722
Management the Lincoln Electric Way, CE:Jan 73:76
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9
Managing System Operations—Central Valley Project, Dan M. Fults and Lawrence F. Hancock, HY10:Oct 74:1419:10886
Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275:9204
Masonry Construction Operations, Clayford T. Grimm, CO2:June 74:171:10630
Master Planning Methodology for Urban Drainage, Harold F. Bishop, HY1:Jan 74:189:10290
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
Mid-Career Administrative Training for Engineers, William D. Brinckloe, EI4:Oct 74:325:10866
Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Network Analysis and Construction Planning, Shlomo Peer, CO3:Sept 74:203:10792
Observations on Civil Engineering Executive/Management Needs as a Part of Civil Engineering Education, Walter G. Heintzleman, CEE:Feb 74:1-361
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73:923:10200
Orthophotoquads for Arizona Land-Use Mapping and Planning, Carl C. Winikka and Samuel A. Morse, Jr., SU1:May 74:1:10525
Participatory Management of Professionals, Thomas A. Marlow, CE:Oct 73:71
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Planning Comprehensive Solid Wastes Management Systems, H. Lanier Hickman, Jr., SA6:Dec 68:1147:6303
Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173
Planning Monitoring Frequencies for CPM Projects, Douglas Vasco Costa, CO2:Nov 71:211:8503
PPB System Implications on Future Highway Program, Roy E. Jorgensen, TE2:May 69:373:6566
Principles and Procedures in Flood Plain Management, James E. Goddard and John W. Weathers, HY4:July 69:1321:6696
Professional Approach to Marketing Engineering Services, Carl E. Nelson, CEWAU:74:131
Professional Aspects of Public Works Management, Myron D. Calkins, CEE:Feb 74:1-339
Project Planning, John M. Shields, SU1:July 72:61:9041
Public Works Engineering and Administration- The Pittsburgh Experience, George M. Tomsho and Joel I. Abrams, CEE:Feb 74:1-723
Quality Assurance, Ralph E. Voice, Jr., EPMT:73:59
Reward-Risk Ratio, Marvin Gates and Amerigo Scarpa, CO4:Dec 74:521:10984
Risk Management, Thomas N. Frisby,, Sr., CE:May 74:94
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73:81:9832
Some Experience with Offering Professional Education in Urban Transportation, Lester A. Hoel, CEE:Feb 74:1-850
Steel Construction, State-of-Art Report 5A, K. D. Cunningham, TB:73:Ia-4-753
Surveying Responsibility of the Engineer-Manager, Daniel J. Watkins, SU1:May 71:1:8101
Surveying Safety, John M. Shields and Jack J. Wilks, SU1:July 72:67:9057
System for Control of Construction Quality, Roland M. Parsons, CO1:Mar 72:21:8757
Waste Management In The Marine Environment, Clarence M. Tarzwell, CEO-II:70:477
Water Resources Management In South Florida, Charles L. Nowlin, SEA:70:27
Water Supply and Waste Water Districts in Suburbia, Myron K. Nelson and R. L. Chandler, SA2:Apr 70:593:7247
Workshops—Foundation of ASCE Grass Roots Strength, Paul A. Kuhn, EI4:Oct 74:289:10842

Management Analysis
Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Client Relations, Chandler P. Young, EPMT:73:63
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Financial Considerations of Effective Project Management Techniques, Marion T. Hvidt, EPMT:73:71
Management Defined, Characteristics, and Human Behavior, Leon K. Madsen, EPMT:73:1
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9
Quality Assurance, Ralph E. Voice, Jr., EPMT:73:59
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47

Management Control Reports
Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661

Management Engineering
Contracting Practices, State-of-Art Report 1, Charles A. DeBenedittis, TB:73:Ia-4-669
Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253
SCSD:Pioneer Effort in Systems Approach to Building Construction, Christopher Arnold, CE:Apr 69:41
UCLA Professional Certificate Program in Engineering Management for Public Works, Alfred C. Ingersoll and Ricardo Gonzales, Jr., EI1:Jan 74:45:10301

Management Games
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73:81:9832

Management Planning

Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61
Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994

Management Systems

Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61

Management Training

Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Management Defined, Characteristics, and Human Behavior, Leon K. Madsen, EPMT:73:1
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47

Manganese

Chemistry of N and Mn in Cox Hollow Lake, Wis., Following Destratification, Patrick L. Brezonik, Joseph J. Delfino and G. Fred Lee, SA5:Oct 69:929:6850

Manifolds

Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73:747:9729
Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227
General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205
Head Losses in Wyes and Manifolds, Eugen Ruus, HY3:Mar 70:593:7130
Power Losses and Flow Topologies in Manifold, Jaime Amorocho and Johannes J. DeVries, HY1:Jan 71:81:7791
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9:Sept 73:1531:10004

Man Machine Systems

Automated Optimum Design from Discrete Components, Aldo Cella and Robert D. Logcher, ST1:Jan 71:175:7845
Cost-Effective Matching of Task and Computing Device, Ralph E. Miller, Jr. and John McCaslin, EC5:70:543
Experience With A Pol Environment, Edward L. Murphree and John W. Melin, EC5:70:489
Human/Machine Interface in Moving Walk Design, Rick Kuner, MTI:May 72:139
Man-Oriented Program System For Engineering Design, George Rabe and Vincent A. Trossello, EC5:70:353
Structural and Foundation Computer Based Designs, Richard F. Harig and Daniel J. McDermott, EC5:70:515

Manning Formula

Manning Formula-A Misnomer, Garnett P. Williams, HY1:Jan 70:193:7036

Mannings Equation

Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830

Manpower

Construction Planning in South East Asia, Omar E. Rood, Jr. and John L. Richards, CO2:Sept 72:331:9217
Engineering Manpower: Supply and Demand Relationships, Robert D. Kersten and John Paul Hartman, CEE:Feb 74:1-479
Dsc, Industrial Relations and Manpower in Construction, by Daniel Quinn Mills (Book Review), Glenn Vogelein, CE:Sept 72:38
Technician Manpower Needs in Florida, Richard D. Ray, CEE:Feb 74:1-279

Manpower Utilization

Engineering Manpower: Supply and Demand Relationships, Robert D. Kersten and John Paul Hartman, CEE:Feb 74:1-479

Manuals

Design Standards for Wastewater Treatment Systems, Robert A. Canham and Louis L. Guy, Jr., CE:Feb 72:40
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Manufacturing

Public and Legislative Support for Bikeways, John Auerbach, BP73:Dec 73:20
Transportation Innovation and the Manufacturer, Richard H. Shackson, UTI:71:367

Mapping

Airphoto Interpretation of Flood Plain Soils, Ralph W. Kiefer, SU1:Oct 69:49:6819
Analysis and Prediction of Photogrammetric Residual Errors, Kunwar K. Rampal, SU1:May 74:33:10515
Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
Charting New Transportation Environment, John A. Osborn, SU2:Sept 70:265:7565
Comprehensive Unified Land Data System, Robert N. Cook, SU1:Oct 69:103:6851
Computer Programs for Strip Aerotriangulation, Kam W. Wong, SU1:Oct 69:71:6822
Control for Antarctic Ice Cap Reconnaissance, James L. Clapp, SU1:Jan 68:1:5716
Control Surveys for Major Bridges, Normand L. Moore and Richard G. Begell, SU1:May 71:83:8098
Coordinated Mapping Program Saves Money for County, Ivan F. Gennis and Joseph P. Allesandri, CE:Dec 73:45
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
Estimating Costs of Aerial Surveys, Antonio M. Aguilar, CE:Oct 69:70
Fifty Years in Surveying-Mapping-and the Future, George D. Whitmore, SU1:Oct 69:143:6860
Hydrography and the Engineer, Colin G. McQ. Weeks, SU1:Sept 73:1:9981
Infrared Aerial Surveys in Environmental Engineering, Rudolph V. Matalucci and Mohamed Abdel-Hady, SA6:Dec 68:1071:6277
Instant Relief With New Stereo Image Alternator, John E. Leonarz, SU2:Sept 70:257:7564
Interpretation of Multispectral Remote Sensor Data, Albert N. Williamson, SU2:Nov 74:143:10948
Isopachous Mapping of the Lower Patuxent Estuary Sediments by Continuous Seismic Profiling Techniques, Newell T. Stiles and Donald R. Wiesnet, 12CEC:71:669
Land Acquistion Surveys and Maps for Reservoirs, Russell S. Dittmer, SU2:Nov 71:215:8500
Map Control by Electronic Surveys, William A. McLaughlin, SU1:Apr 70:81:7226
Mapping for Changing Environment, Morris M. Thompson, SU1:Oct 69:35:6818
Mapping for the Pennsylvania Highways, Victor W. Anckaitis, SU2:Oct 67:103:5530
Mississippi Valley Mapping, Leslie B. Robison, SU1:May 71:103:8102
National Mapping for Urban Areas, Robert H. Lyddan, SU2:Sept 70:143:7520
Navigation Charting for Inland Waterways, Benjamin O. Holmes, SU1:Oct 69:117:6856
Orthophotomapping for Prudhoe Bay Development, Thomas J. O'Brien, SU2:Nov 71:199:8499
Orthophotoquads for Arizona Land-Use Mapping and Planning, Carl C. Winikka and Samuel A. Morse, Jr., SU1:May 74:1:10525

Photogrammetric Control Extension for Route Design, Eugene E. Derenyi and Ahmed Maarek, SU1:May 74:49:10528
Photogrammetry Aids Solution of Environment Problems, Alfred O. Quinn, SU1:July 72:87:9044
Photogrammetry for Right-of-Way Acquisitions, Edward H. Sokolowski, SU1:Jan 68:49:5735
Pipeline Location: Bibliography Supplement, Edward T. Marsh, Chmn., TE2:May 73:363:9739
Rounds Versus Positions, Mohamed F. Madkour, SU1:Oct 69:151:6862
Selection of Maps for Engineering and Planning, Antonio M. Aguilar, Chmn., SU1:July 72:107:9073
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
The Survey Engineer - A Rare Species, Arthur J. McNair, SU1:Apr 70:37:7197
Surveying and Mapping from Orbital Platforms, Kam W. Wong, SU1:May 74:15:10529
Survey of Geographic Base Files, George P. Leyland, SU2:Sept 70:201:7529
Ten-Year Research Program in Surveying and Mapping, Morris M. Thompson, SU2:Oct 67:9:5486
Topographic Maps for Construction Planning, Robert H. Lyddan, SU1:Apr 70:51:7221
The Unsymmetrical Vertical Parabola, Robert P. Vreeland, SU1:Jan 68:61:5739
Water Features on Topographic Maps, Morris M. Thompson, SU1:July 72:1:9018

Maps
Channel Rectification Engineering Survey Program, John M. Shields, SU1:May 71:61:8119
The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
National Mapping for Urban Areas, Robert H. Lyddan, SU2:Sept 70:143:7520
Navigation Charting for Inland Waterways, Benjamin O. Holmes, SU1:Oct 69:117:6856
Philadelphia-Lindenwold High-Speed Line Surveys, Carl E. Hultin, SU1:May 71:7:8096
Television Display of Topographic Maps, Kam W. Wong and Nick G. Yacoumelos, SU2:Nov 71:273:8531
Water Features on Topographic Maps, Morris M. Thompson, SU1:July 72:1:9018

Marble
Improved Compression Test Technique for Soft Rock, Edwin T. Brown and Louis P. Gonano, TN: GT2:Feb 74:196:10310

Marginal Benefits
Economic Design of Low Pressure Air Piping Systems, J. Michael Osborne, EE6:Dec 74:1263:11031
Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933

Marinas
Congestion in Marina Entrance Channels Due to Sailboats, Allen L. Ely and John M. Nichol, WW4:Nov 73:415:10137
Floating Breakwater for Reservoir Marinas, Kenneth Chen and Robert L. Wiegel, 12CEC:71:1647
Flushing Characteristics of Small-Boat Marinas, Ronald E. Nece and Eugene P. Richey, CE13:72:III-2489
Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
Pile Tips and Barbs Prevent Ice Uplift, James E. Muschell, CE:June 70:41
Planning for Pleasure Boating on Regional Basis, Ellsworth J. Gullidge and Frank J. Urabeck, WW3:Aug 70:583:7453
Regional Application of ASCE Manual No. 50, George T. Treadwell and Robert V. Kycek, WW1:Feb 71:123:7883
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Marine Bacteria
Effects of Wastewaters on Marine Biota, Wheeler J. North, CE13:72:III-2099

Marine Clays
Engineering Properties of Some Sea-Floor Deposits, George H. Keller, SM6:Nov 69:1379:6907
Minor Principal Stress Measurements in Marine Clay with Hydraulic Fracture Tests, Michael Bozozuk, EFSE:Aug 74:333

Marine Fishes
Analysis of Inner Plant Passage of Estuarine Biota, Allan D. Beck and Don C. Miller, EPCE:Aug 74:199

Marine Geology
Engineering Properties of Some Sea-Floor Deposits, George H. Keller, SM6:Nov 69:1379:6907
Wave-Induced Scour On The Sea Floor, Harold D. Palmer, CEO-II:70:703

Marine Microorganisms
Analysis of Inner Plant Passage of Estuarine Biota, Allan D. Beck and Don C. Miller, EPCE:Aug 74:199

Marine Salvage
Breakout Resistance of Objects Embedded In Ocean Bottom, Aleksandar Sedmak Vesic, CEO-II:70:137
Ocean Sediment Holding Strength Against Breakout Of Partially Imbedded Objects, Cheng L. Liu, CEO-II:70:105
The Vertical Holding Capacity of Marine Anchors In Sand, Stanley M. Bemben and Edward H. Kalajian, CEO-II:70:117

Marine Terminals
All-Weather Tanker Terminal for Cook Inlet, Alaska, William S. Gaither and Robert E. Dalton, WW2:May 69:131:6549
Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72:333:9126

Marine Transportation
Ocean Tug-Barge Systems, Lawrence R. Glosten, WW2:May 72:243:8868
Systems Approach to Petroleum Site Selection, William S. Gaither and John Patrick Sides, WW3:Aug 69:395:6750

Marketing
Marketing Principles Applied to Engineering Education, George Pincus, CEE:Feb 74:1-1006
Marketing Professional Engineering Services, Lynn D. Dorsey, CE:Oct 73:99
Professional Approach to Marketing Engineering Services, Carl E. Nelson, CEWAU:74:131
Transit Marketing in Chicago, George Krambles, TE2:May 71:361:8134

Market Research
Marketing Principles Applied to Engineering Education, George Pincus, CEE:Feb 74:1-1006
Planning for Satellite Airports, Walter Gelerman and Richard de Neufville, TE3:Aug 73:537:9951

Market Value
Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856

Markov Processes
Markov Models for Flow Regulation, Moshe Gablinger and Daniel P. Loucks, HY1:Jan 70:165:7031
Markov Renewal Model of Linked Trip Travel Behavior, Gorman Gilbert, George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112

Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72:1935:9353

Marls

Salinity Status of Marl Soils in Southern Florida, E. H. Stewart, R. R. Alberts and P. G. Orth, SEA:70:63

Marshes

The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979
Estimation of Estuarine Marsh Productivity, Eugene De Michele, TN: EE3:June 73:397:9764

Maryland

Bikeway Planning and Implementation - The Maryland Experience, Paul R. Farragut, BP73:Dec 73:288
The Cheasapeake Bay Study And Hydraulic Model, John T. Starr, CEO-II:69:349
Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821
Experiences with Interdisciplinary Teams, Norman M. Klein, ABS:71:83
Residential Community Features Novel Dam and Sewer, Robert B. Balter, CE:May 73:46
Selection of Disposal Areas for Spoil From Baltimore Harbor, John F. Hoffman, 12CEC:71:2267
Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
Three Support Systems Used to Build Bridge Substructure, Kristian Tonning, CE:Dec 71:43

Masonry

Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
Ductility of Masonry Walls, Rowland J. Mainstone, TB:73:III-27-1101
Earthquake Effects on the Masonry of Multistory Buildings, Juan S. Carmona, TB:73:Ib-6-284
Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839
General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959
High Quality Structural Masonry Based on Controlled Parameters, Sven Sahlin, TB:73:III-27-1086
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Investigation of Polymer-Impregnated Brick Masonry, David W. Fowler and Thomas J. Fraley, ST1:Jan 74:1:10278
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
Masonry Building Systems, State-of-Art Report 9, Alan H. Yorkdale, TB:73:Ia-3-567
Masonry Construction Operations, Clayford T. Grimm, CO2:June 74:171:10630
Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73:III-27-981
Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103
Masonry Structures, Theme Report, Arnold W. Hendry, TB:73:III-27-957
New Mortars, Prefab Walls Transform Concrete Masonry, Henry T. Toennies, CE:July 73:46
Reinforced Masonry and the Pathology of Masonry, O. Pfeffermann, TB:73:III-27-1088
Reinforced Masonry Engineering Handbook by J. E. Amrhein (Book Review), Albert J. Blaylock, CE: Dec 72:11
Repair of 7-Story Bearing Wall, Russell S Fling, CO1:July 69:39:6669
Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913:8253
Strain in Brick Wall of Five-Story Building, J. G. Stockbridge, ST12:Dec 69:2955:6979
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593:8143
Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001
Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Structural Design of Masonry Buildings, Walter L. Dickey, TB:73:III-27-1057
Structural Masonry, by Sven Sahlin (Book Review), James E. Amrhein, CE:Oct 71:12
Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577
Surface Bonded Masonry Construction, Robert J. Young, TB:73:III-27-1099
Weather Effects on Mason Productivity, Clayford T. Grimm and Norman K. Wagner, CO3:Sept 74:319:10783

Mass

The Added Mass of a Ship in Longitudinal Oscillation, Jean Sommet, BMS:71:174
Mass Properties Of The Sea Floor In A Selected Depositional Environment, George H. Keller, CEO-II:70:857
The Mechanics of Impact and Evaluation of the Hydrodynamic Mass, Brendan F. Saurin, BMS:71:192
Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708
Virtual Mass Of Cylinders In Water, Frederic T. Mavis, TN: HY1:Jan 72:319:8617
Virtual Mass of Plates and Discs in Water, Frederic T. Mavis, HY10:Oct 70:1947:7593
Wave Forces on Cylinders Near Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, WW4:Nov 74:345:10944

Massachusetts

Aesthetics -- Part of Civil Engineering, Frederick M. Law, PP2:Apr 72:275:8850
Alternate Methods of Wastewater Disinfection, John R. Elwood, Russell H. Isaac and Martin Weiss, NSCD:71:189
Boston Collapse, William A. Litle, STF:73:99
A Case Study of the Bauer Earth Anchor, Marvin D. Oosterbaan and Douglas G. Gifford, PES:72:I-1391
Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1: May 73:205:9738
Estimating Travel Times on Highway Networks, Joseph M. Sussman, Ho-Kwan Wong and Roger Miller, TE1:Feb 74:13:10335
Forms of Erosion and Accretion on Cape Cod Beaches, Victor Goldsmith, Joseph M. Colonell and Peter N. Turbide, CE13:72:II-1277
An Instrumented Tied-Back Deep Excavation, Thomas K. Liu and John P. Dugan, Jr., PES:72:I-1323
New Concepts in Urban Parking, John G. Schoon and Herbert S. Levinson, TE3:Aug 74:611:10731
Northfield Mountain Underground Power Station, Philip A. Wild and David P. McKittrick, URC:72:287
One Hundred Summer Street, Welton Becket and Associates, TB:73:C-P-314
The Performance of a Subway Excavation, T. William Lambe, L. Anthony Wolfskill and Walter E. Jaworski, PES:72:I-1403
Performance of Two Mat Foundations on Boston Blue Clay, Salvatore V. DeSimone and James P. Gould, PES:72:I-953
Prudential Insurance Tower, Charles Luckman Associates, TB:73:C-P-358
Reappraising Metropolitan Transportation Needs, Thomas F. Humphrey, TE2:May 74:353:10532
Two AWT Plants for Fitchburg, William H. Parker, III and William F. Callahan, CE:Sept 74:90
Waste Generation Models for Solid Waste Collection, Donald Grossman, James F. Hudson and David H. Marks, EE6:Dec 74:1219:11022
Which First Higher Fees or Higher Salaries, Cranston Rogers, CE:Aug 73:76

WPI Plan -- From Concept to Reality, Armand J. Silva and William R. Grogan, CEE:Feb 74:1-64
WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121

Mass Concrete
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
Precast Concrete for Cladding on Mass Concrete, Arthur R. Anderson, RCCD:70:309
Preplaced Aggregate Concrete In Dam Construction, John C. King, RCCD:70:203
Thermoviscoelasticity of Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM3:June 74:575:10621

Mass Production
Low-Cost Housing: Is the Soviet Union's Factory-Made Housing the Answer?, A. Allan Bates, CE:Sept 69:44
Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477

Mass Transfer
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635

Mass Transportation
Balancing Transportation, John E. Hirten, BP73:Dec 73:1
Evaluation of Urban Public Transportation, Kenneth W. Heathington, EI3:July 74:241:10662
Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923
Impact of Rail Transit on Bus Operations, Richard H. Pratt, TE1:Feb 71:31:7881
The Impact of Staggered Work Hours on Public Transportation, Roger H. Gilman, NA:Mar 71:91
Implementing an Exclusive Bus Lane on the New Jersey Approaches to the Lincoln Tunnel, Leon Goodman, NA:Mar 71:149
The Legislation of Balance, Milton Pikarsky, TE3:Aug 73:483:9938
Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953
Mass Transit - Panacea for Urban Problems, E. L. Tennyson, NA:Mar 71:41
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
Municipal Considerations in Transportation Planning, Richard B. Robertson, TE1:Feb 69:1:6378
New Approaches to Urban Transportation Needs, Jack Kinstlinger, NA:Mar 71:197
The Other Side of "The Highway Explosion", Carlton C. Robinson, CE:Feb 71:47
Philadelphia Regions' Urban Corridor Demonstration Program, Ira N. Pierce, NA:Mar 71:161
Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909
Pricing in Mass Transportation, Masatoshi A. Abe and Kumares C. Sinha, TE1:Feb 73:83:9551
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571:9960
The Role of VTOL Aircraft in Urban Mass Transportation, F. N. Piasecki, NA:Mar 71:85
Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
Small Budget Rapid Transit, Louis T. Klauder, NA:Mar 71:69
Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73:59:9493
Transit Industry Educational Interests, Frederick J. Wegmann and Edward A. Beimborn, EI4:Oct 74:313:10863
Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41
Two Means of Alleviating Rush-Hour Crowding, Charles Libove, TE4:Nov 73:845:10144
Urban Transportation, Murray A. Muspratt, TN:TE1:Feb 73:193:9529
Urban Transportation - A Persistent Paradox, John C. Kohl, NA:Mar 71:61

Materials
Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73:1283:10207
Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057
Barge-Coal Handling at A.S. King Generating Plant, Arthur V. Dienhart and Norris R. Fitch, PO3:June 70:299:7322
Behavior of Concrete Under Biaxial Stresses, Helmut B. Kupfer and Kurt H. Gerstle, EM4:Aug 73:853:9917
Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4:Apr 72:311:8817
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72:1005:9363
Engineering at the University of Illinois (Chicago Circle), Ernest F. Masur, CEE:Feb 74:1-127
Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380
Fluid-Dynamic Consideration of Bottom Materials, Hormoz Pazwash and James M. Robertson, HY9:Sept 71:1317:8374
Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139
Materials for Structural Models, Frederic Roll, ST6:June 68:1353:5990
Numerical Biaxial Characterization for Concrete, Karl M. Romstad, Michael A. Taylor and Leonard R. Herrmann, EM5:Oct 74:935:10879
Optimal Multifactor Design Procedure for Sandwich Panels, Chester P. Smolenski and Edward M. Krokosky, ST4:Apr 70:823:7243
Orthotropic Elastic Properties of Wood, James R. Goodman and Jozsef Bodig, ST11:Nov 70:2301:7682
Pavement Evaluation by Wave Propagation Method, Keshavan Nair, TE1:Feb 71:83:7900
Permanent Deformation in Asphaltic Materials, Geoffrey E. Blight, TE1:Feb 74:263:10327
Practical Selection of Materials for Large Water Pipe, Donald P. Proudfit, TE1:Feb 69:203:6424
Stress Concentrations Near Holes in Laminates, Richard M. Barker, Jon R. Dana and Charles W. Pryor, Jr., EM3:June 74:477:10590
Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554

Materials Handling
Animal Wastes--A National Problem, Raymond C. Loehr, SA2:Apr 69:189:6493
Containerport Engineering for the Port of Oakland, E. F. Nielsen, CE:Jan 69:40
Goods Movement on Urban Transit Systems, John J. Fruin, TE3:Aug 72:617:9139
Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, TE1:Feb 74:207:10329

Materials Handling Equipment
Alternate Approaches to the Education of Designers, John F. Oyler and Howard H. Hobson, CEE:Feb 74:1-390

Materials Specifications
Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380
Trends in Construction Materials: An Overview, Russel C. Jones and Fred Moavenzadeh, CE:Aug 69:28

Materials Stability
Material Safety Requirements of Hyperbaric Facilities, William J. Bobisch and Michael Yachnis, ST7:July 72:1465:9019

Materials Tests

Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
Code Acceptance of Unique Building Materials and Systems, Paul K. Heilstedt, CO4:Dec 74:553:11023
Dual Failure Criterion for Plain Concrete, Han-Chin Wu, EM6:Dec 74:1167:10996
Dynamic K_c Testing of Structural Steel, Ronald B. Madison and George R. Irwin, ST7:July 74:1331:10653
Evaluation of Synthetic Aggregate from Lignite Fly Ash, Roger L. Engelke, William B. Ledbetter and Bob M. Gallaway, TE1:Feb 74:27:10337
Ferrocement—Material Behavior in Flexure, Colin D. Johnston and Dallas N. Mowat, ST10:Oct 74:2053:10878
High-Strength End Fittings for FRP Rod and Rope, Richard A. Mitchell, Ruth M. Woolley and Nixon Halsey, EM4:Aug 74:687:10716
Influence of Loading Rate on Rock Response, Dale E. Stephenson and George E. Triandafilidis, GT2:Feb 74:101:10367
Orthotropic Elastic Properties of Wood, James R. Goodman and Jozsef Bodig, ST11:Nov 70:2301:7682
Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82
Procurement and Analysis of Structural Fatigue Data, Harold S. Reemsnyder, ST7:July 69:1533:6693
Seismic Shear Waves in Engineering, Harold M. Mooney, GT8:Aug 74:905:10745
Significance of Variably Confined Triaxial Testing, John J. Allen and Marshall R. Thompson, TE4:Nov 74:827:10911
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289
Statistical Theory in Materials Sampling, Norman J. Cohen, CO1:Mar 71:95:8005
Steel Ductility Measurements, Asfandiar K. Dhalla and George Winter, ST2:Feb 74:427:10365
Technique for Study of Granular Materials, Stephen J. Windisch and Michel Soulie, SM4:July 70:1113:7389
Wave Propagation in Confined Clay, Delon Hampton, Peter J. Huck and Ernest T. Selig, SM4:July 70:1391:7434

Mathematical Analysis

Homogeneity Analysis and Planning Studies, Robert E. Paaswell, UP2:Dec 71:125:8561
Maximization of Eigenvalues by Conjugate Gradients, Carlos A. Prato, TN: ST1:Jan 70:171:7025
The Moored Ship as an Oscillating System, Robert C.H. Russell, BMS:71:48
One-Dimensional Equation of Open-Channel Flow, Theodor S. Strelkoff, HY3:May 69:861:6557
Optimization of Multiple Reservoir System, William J. Trott and William Wen-Gong Yeh, HY10:Oct 73:1865:10065
Resonance in Harbors of Arbitrary Shape, Jiin-Jen Lee and Fredric Raichlen, 12CEC:71:2163
Tidal Motion in Bays, Omar H. Shemdin and R. M. Forney, 12CEC:71:2225
Trapping of Outfall Constituents behind Sills, T. Carstens and A. Sjoberg, 12CEC:71:1917

Mathematical Logic

Differential Settlement of Hyperbolic Cooling Towers, Phillip L. Gould, ST10:Oct 72:2207:9252

Mathematical Models

About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Absolute Orientation of Photogrammetric Model, Santosh K. Mahajan and Vijay Singh, SU2:Nov 71:237:8519
The Added Mass of a Ship in Longitudinal Oscillation, Jean Sommet, BMS:71:174
Allocating Water Among Alternative Uses, John E. Reynolds, IR1:Mar 71:85:7978
Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2:May 73:405:9745
Analysis and Design of Nuclear Power Plant Structures, Peter K. Ho and Milomir Stoykovich, SDNPF:Dec 73:365
Analysis of Orthotropic Reinforced Concrete Structures, Jeremy Isenberg and Samy A. Adham, ST12:Dec 70:2607:7782
Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174
Analysis of Sediment Sorting in Alluvial Channels, Saeed A. Rana, Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168
Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
Analytically Determined Bed-form Shape, Albert G. Mercer, TN: EM1:Feb 71:175:7858
Analytical Model for Management of Alluvial Aquifers, Raziq Qazi and Jeris Danielson, IR2:June 74:143:10627
Analytical Modeling of Estuarine Circulation, John S. Fisher, John D. Ditmars and Donald R.F. Harleman, CE13:72:III-2297
Application of New Methods of Structural Analysis for Safety Investigations of Concrete Dams, Eric B. Kollgaard, IMROD:Sept 73:498
An Approach To Operation Of A Regional Primary Water Control Sysrem, William V. Storch and Robert L. Hamrick, SEA:70:45
Approximate Modal Analysis Of Multistory One-Bay Frames, Alan A. Chapman and Gary C. Hart, TN: ST9:Sept 72:2137:9162
Assessing Impact of Urban Transportation, David E. Boyce, TE3:Aug 72:645:9111
Atmospheric diffusion and deposition of Particulate Matter, Robert W. Cleary, Donald Dean Adrian and Richard J. Kinch, EE1:Feb 74:187:10344
Automated Optimum Design From Discrete Components, Aldo Cella and Robert D. Logcher, EC5:70:259
Basis for Simulation Model of Container Terminal, Fraser Dunford, TE3:Aug 72:607:9099
Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6:Dec 72:1353:9441
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
Bidding Models: Resolution Of A Controversy, Matthew Rosenshine, TN: CO1:Mar 72:143:8753
Border Irrigation Advance and Ephemeral Flood Waves, Roger E. Smith, IR2:June 72:289:8979
BUILD-An Integrated System for Building Design, Lavette C. Teague, Jr. and Alan M. Hershdorfer, ST4:Apr 68:983:5901
A Class of Probability Models for Littoral Drift, William R. James, 12CEC:71:831
Comparative Study of Soil Spring and Finite Element Models for Seismic Soil-Structure Interaction Analysis of Nuclear Power Plants, P. K. Agrawal, Shih-Lung Chu and Hemant H. Shah, SDNPF:Dec 73:63
Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, Chan F. Lam and M. L. Wolla, HY3:Mar 72:447:8782
Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547
Computer Model for a Lock Manifold System, James S. Windsor and Herman Vallee, WW2:May 69:149:6553
Computer Model for Thermal Plume, Robert E. Barry and David P. Hoffman, PO1:June 72:117:8985
Computer Systems for Urban Design and Development, Niles O. Sutphin, William F. Sommerfeld, Lavette C. Teague, Jr. and G. Neil Harper, UP1:Apr 71:63:8055
Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024

Creep, Cracking, and Shrinkage in Concrete Frame Structures, Lawrence G. Selna, ST12:Dec 69:2743:6949
Current Water Systems Automation Research and Development in the Bureau of Reclamation, Charles A. Calhoun, IR73:Aug 73:353
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73:2195:10233
Deformation of Tidal Waves in Shallow Estuaries, Calude Marche and Hans-Werner Partenscky, CE13:72:III-2395
Delaware River Basin Modeling, Lewis G. Hulman and David K. Ericson, HY1:Jan 72:105:8668
Deterministic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE4:Aug 74:979:10735
Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269
Directional Analysis in Model Design, Fernando Vasco Costa, EM2:Apr 71:519:8053
Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
Distorted Modeling of Density Currents, James J. Sharp, CE13:72:III-2329
Dynamic Anlaysis Of Three-Dimensional Frames, Roger E. Scholl, TN: ST1:Jan 72:401:8619
The Dynamics of a Coast with a Groyne System, W. T. Bakker, E. H.J. Klein Breteler and A. Roos, 12CEC:71:1001
Dynamic Structure-Soil Wave Model for Deep Water, Billy L. Edge and Paul G. Mayer, WW1:Feb 71:167:7889
Ecological Importance Of Temporal Variations, David A. Bella, TN: SA4:Aug 72:685:9084
Econometric Model to Aid in Urban Planning Decisions, A. F. Brotchie, Ron Sharpe and A. Raymond Toakley, UP1:Mar 73:25:9587
The Economic Evaluation of Irrigation in Humid Areas, Milton L. David and Gary M. Mennem, OIDS:72:443
Elevation Dependent Model for Estimating Annual Runoff, Verne E. Smith, Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245
Engineering Measurements, Eugene L. Foster, EFSE: Aug 74:23
Estimation of Phreatophyte Water Use, William C. Hughes, IRS:Sept 72:191
Estimation Theory Applications to Design of Water Quality Monitoring Systems, Stephen F. Moore, HY5:May 73:815:9755
Evaluation of New Systems For Urban Transportation, Reed H. Winslow and Jerry L. Pfeffer, TE4:Nov 72:757:9354
Examination of the Thermocline, John C. Sonnichsen, Jr. and Clarence A. Oster, SA2:Apr 70:353:7219
Flood Control Release Optimization Using Methods from Calculus, William C. Hughes, HY5:May 71:691:8117
Flushing Pattern of Non-reactive Effluents, Adel M. Kamel, 12CEC:71:1867
Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
Free-Vortex Theory Applied To Free Overfalls, Kamil H.M. Ali and Ann Sykes, TN: HY5:May 72:973:8864
Gas Transfer Kinetics of Pure Oxygen System, James A. Mueller, Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792
Generalized Stream Temperature Analysis System, Daniel P. Bauer, Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167
Guidelines for Selecting a Programmable Calculator, Eugene E. Dallaire, CE:Mar 72:46
Hydrodynamic Analysis of Sludge Dumped in Coastal Waters, Billy L. Edge, CE13:72:III-2187
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Hydrologic Response of Watersheds to Land Use Management, Louis M. Glymph, Heggie N. Holtan and Charles B. England, IR2:June 71:305:8174
Hydrologic Simulation Procedures As Applied To Vegetation Management, George Fleming, SEA:70:269
The Identification of Transportation Demand, Richard de Neufville and Joseph H. Stafford, UTI:71:281
Impedance Minimization Travel Choice Process, Edward A. Beimborn, TE2:May 72:177:8882
Independent Comparison of Three Urban Runoff Models, David P. Heeps and Russell G. Mein, HY7:July 74:995:10685
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan S. Sandler, EM6:Dec 73:1181:10210
Influence of Sediments on Transport of Solutes, Earnest F. Gloyna, HY4:July 69:1347:6699
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72:273:9242
Interaction Stresses in Composite Systems, Mohammad A. Iqbal and Edward M. Krokosky, EM6:Dec 70:825:7738
Irrotational Flow with Irregular Boundary Shapes, Albert G. Mercer, HY8:Aug 73:1209:9937
Jamaica Bay Hurricane Barrier, Frank L. Panuzio, 12CEC:71:2069
Laminar and Turbulent Overland Flow Hydrographs, James R. Morgali, HY2:Feb 70:441:7069
Land Capability Classes As Hydrologic Response Units in Watersheds, Charles B. England, IAWM:72:53
Locational Models for Solid Waste Management, Billy P. Helms and Robert M. Clark, UP1:Apr 71:1:8061
Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
Lumped Parameter Beams Based on Impedance Methods, Vernon H. Neubert, Hong T. Hahn and Hae Lee, EM1:Feb 70:69:7099
Macro Approach to Discrete Field Analysis, Donald L. Dean and Hota V.S. GangaRao, EM4:Aug 70:377:7463
Making Decisions in the Face of Uncertainty, Jack R. Benjamin, IMROD:Sept 73:356
Markov Renewal Model of Linked Trip Travel Behavior, Gorman Gilbert, George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112
Mathematical and Hydraulic Models of Tidal Waves, Jurgen Sundermann and Hans Vollmers, CE13:72:III-2413
Mathematical Model for Aggregate Plant Production, Donn E. Hancher and John A. Havers, TN: CO1:Mar 71:171:7972
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
A Mathematical Model for Salinity Intrusion, A. Y. Kuo and Ching S. Fang, CE13:72:III-2265
Mathematical Modeling of Large Objects in Shallow Water Waves and Uniform Current, Hsiang Wang, CE13:72:III-1783
Mathematical Model of Leaky Aquifer, Robert Bibby and Daniel K. Sunada, IR3:Sept 71:387:8350
Mathematical Model of Mixing in New Haven Harbor, Michael D. Disko, Robert A. Norris and Francis C. Lutz, 12CEC:71:1847
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866
Mathematical Model of Single Pile, Noel J. Gardner and Roy Sage, TN: GT9:Sept 74:1081:10774
Mathematical Models of Location: A Review, David H. Marks, Charles S. ReVelle and Jon C. Liebman, UP1:Mar 70:81:7164
Maximum Wave Height Probabilities for a Random Number of Random Intensity Storms, Leon Emry Borgman, 12CEC:71:53

Mekong Delta Mathematical Model Program Construction, Dino Zanobetti, Henri Lorgere, Alexandre Preissmann and Jean Andre Cunge, WW2:May 70:181:7259
Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72:1575:9206
Model For Farm Irrigation in Humid Areas, James S. Windsor, IR3:Sept 71:369:8355
Model for Nonlinear Dynamics of Offshore Towers, Edward Terence Foster, Jr., EM1:Feb 70:41:7093
Model for Planning a Transportation System, Frank A. Tillman, TE2:May 70:229:7289
Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296
Modeling Alternative Vehicle Related Pollutant Emission Control Strategies in Chicago, J. E. Norco, K. G. Croke and R. E. Wendell, UT73:May 73:89
Models For Approximate Frame Analysis, Donald L. Dean and R. Richard Avent, TN: ST8:Aug 72:1903:9086
The Moored Ship as an Oscillating System - The Non-linear Problem, Antonio G. Portela, BMS:71:67
New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770
The Nile Delta Coastal Protection Project, Ismail E. Mobarek, CE13:72:II-1409
Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746
Northeast Corridor Transportation Project: Structure and - Operations of Model System, Paul W. Shuldiner, TE4:Nov 70:445:7651
A Numerical Model of Estuarine Pollutant Transport, Hugo B. Fischer, CE13:72:III-2255
Numerical Model of St. Lawrence River Estuary, David Prandle and Norman L. Crookshank, HY4:Apr 74:517:10472
A Numerical Model of the St. Lawrence River, David Prandle, CE13:72:III-2281
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73:923:10200
Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
Optimal Irrigation Quantity and Frequency, I-pai Wu and Tung Liang, IR1:Mar 72:117:8776
Optimal Reservoir Releases for Water Quality Control, Norbert A. Jaworski, Walter J. Weber, Jr. and Rolf A. Deininger, SA3:June 70:727:7361
Optimal Water Quality Management for Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, SA1:Feb 72:195:8715
Optimization of an Existing Large Complex Drainage System, N. N. Khanal and Robert L. Hamrick, OIDS:72:503
Oxygen Depletion Model for Cayuga Lake, J. Denis Newbold and James A. Liggett, EE1:Feb 74:41:10346
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938
Oxygen Utilization in Bacterial-Protozoan Community, Raymond P. Canale and Frank Y. Cheng, EE1:Feb 74:171:10314
Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72:1343:9119
Pattern Forming Forces in Deltas, Richard Silvester and Catalino del Rosario de la Cruz, WW2:May 70:201:7260
Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123
Power Plant Cooling Water Discharge in Streams, Liang-Tseng Fan, Jie-Tsai Tseng and Ching Hwang, PO4:Dec 71:841:8595
Predicting Changes in the Plan Shape of Beaches, W. A. Price, K. W. Tomlinson and D. H. Willis, CE13:72:II-1321
Predicting Effects of Dead Zones on Stream Mixing, Edward L. Thackston and Karl B. Schnelle, Jr., SA2:Apr 70:319:7218
Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65:8984
Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687
Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448
Public Participation in Planning the St. John River, Desmond M. Connor and Keith T. Bradley, OIDS:72:279
Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73:Ib-9-889
Rainfall Excess Model from Soil Water Flow Theory, Roger E. Smith and Donald L. Chery, Jr., HY9:Sept 73:1337:9990
Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214
Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058
Responsibilities of Computer-Aided Design, Charles F. Beck, CE:June 72:58
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Revisions to Hurricane Design Wave Practices, Charles L. Bretschneider, CE13:72:I-167
Rip-Currents, Edward K. Noda, CE13:72:I-653
Role and Function of Systems Analysis, John C. Schaake, Jr., UWRM:71:72
Runoff Hydrographs for a Mathematical Watershed Model, Roger E. Machmeir, HY6:Nov 68:7453:6248
The Rupture Figure for a Double Wall Cofferdam, B. K. Mazurkiewicz, PES:72:I-1271
The San Francisco Bay-Delta Water Quality Control Program, J. E. Stann and J. R. Ringwood, CE:June 69:74
The Schematization for Tidal Computations in Case of Variable Bottom Shape, J. J. Dronkers, CE13:72:III-2369
Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732
Secondary Consolidation and Strength of a Clay, Chih-Kang P. Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510
Sediment Pollution in Coastal Waters, Jacobus van de Kreeke, 12CEC:71:1803
Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12:Dec 72:2087:9426
Sensitivity Analysis of Douglas Equipment Life Model, Neal B.H. Benjamin, CO1:Mar 72:61:8796
Simple Nonlinear Model for Flood Estimation, Russell G. Mein, Eric M. Laurenson and Thomas A. McMahon, HY11:Nov 74:1507:10933
Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020
Simulation Model for the Appraisal of Irrigation Projects, Paul Egli, OIDS:72:35
Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4:Aug 73:479:9943
Simulation of Waterway Transport Systems, Joseph L. Carroll and Michael S. Bronzini, TE3:Aug 71:527:8311
Simulation of Water Yield from Devegetated Basins, George Fleming, IR2:June 71:249:8175
Soil-Structure Interaction, Michele Belloni and Michele B. Jamiolkowski, TB:73:Ia-11-990
Stability of Floating Ice Blocks, Mehmet S. Uzuner and John F. Kennedy, HY12:Dec 72:2117:9418
Statewide Transportation Planning, Frederick J. Wegmann and Everett C. Carter, TE2:May 73:323:9734
Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449

Statistical Experimental Design: BOD Tests, Paul M. Berthouex and William G. Hunter, SA4:Aug 71:393:8286
Statistical Model of Turbulence in Sediment-Laden Streams, W. J. Conover and N. C. Matalas, EM5:Oct 69:1063:6814
Stochastic Analysis of Orthokinetic Flocculation, Perry W. Cockerham and David M. Himmelblau, EE2:Apr 74:279:10446
Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165
Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72:1935:9353
Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296
Stochastic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE3:June 74:613:10578
Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501
Surface Shear Waves, D. Howell Peregrine, HY9:Sept 74:1215:10809
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128
Synthetic Through Trip Patterns, David G. Modlin, Jr., TE2:May 74:363:10526
System Dynamics Approach to Urban Planning, K. Preston White, Jarir S. Dajani and Donald Wright, UP1:Mar 74:43:10388
Systems Analysis in Airport Master Planning, Christian S. Young and Joseph Nemec, Jr., TE4:Nov 74:933:10937
Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659
Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660
Terminal Access and the Choice of Intercity Modes, Edward A. Beimborn, TE3:Aug 69:463:6731
Testing Methods for Determination of Urban Runoff, Constantine N. Papadakis and Herbert C. Preul, HY9:Sept 73:1319:9987
Theoretical Evaluation of Filter Modeling Experiments, Charles R. Ott and Richard H. Bogan, SA2:Apr 70:455:7233
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF:Aug 72:261
Tidal Hydraulics in the Cano Macareo, Shih-Ang Zagustin, Frank D. Masch and Robert J. Brandes, CE13:72:III-2429
Tidal Waves in Schematic Estuaries, Hans Vollmers and Jurgen Sundermann, 12CEC:71:2133
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4:Nov 72:799:9362
Tools for Water-Resource Study, Julius H. Dawes, IR4:Dec 70:403:7720
Torsional Vibrations of Circular Foundations, Gerd F. Weissmann, SM9:Sept 71:1293:8402
Tower: A Design System For Guyed Towers, Karl L. Reichelt, Daniel M. Brown and John W. Melin, EC5:70:377
Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191
Transport Equation Stability and Estuary Modeling, Fred G. Haag and Keith W. Bedford, HY12:Dec 71:2051:8610
Tsunamis: Some Laboratory and Field Observations, Fredric Raichlen, 12CEC:71:2103
University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
Urban Goods Movement Planning Methodology, Arnim H. Meyburg, Walter J. Diewald and Garrison P. Smith, TE4:Nov 74:791:10914
Urban Runoff by Road Research Laboratory Method, Michael L. Terstriep and John B. Stall, HY6:Nov 69:1809:6878
Using Experimental Models to Guide Data Gathering, Charles F. Meyer, HY10:Oct 71:1681:8449
Utility Function Determination for Bidding Models, Jack H. Willenbrock, CO1:July 73:133:9843
Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3:Aug 72:715:9124
The Varying Source Area Of Streamflow From Upland Basins, John D. Hewlett and Wade L. Nutter, IAWM:72:65
Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092
Waste Generation Models for Solid Waste Collection, Donald Grossman, James F. Hudson and David H. Marks, EE6:Dec 74:1219:11022
Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996
Water Quality Model of Chlorides in Great Lakes, Donald J. O'Connor and John A. Mueller, SA4:Aug 70:955:7470
Water Quality Models Using the Box-Jenkins Method, Peter M. Huck and Grahame J. Farquhar, EE3:June 74:733:10629
Water Quality Simulation Model, George R. Grantham, John C. Schaake, Jr. and Edwin E. Pyatt, SA5:Oct 71:569:8429
Water Resources Planning Model, John F. Brotchie, TN: HY10:Oct 71:1801:8413
Waves Generated by a Piston-type Wavemaker, Ole Secher Madsen, 12CEC:71:589
Wind-Induced Circulation in Shallow Water, Henry Liu and Himerio J. Perez, HY7:July 71:923:8235

Mathematical Prediction
Grout Hole Orientation-Mathematical Solution, J. S. Singhota, SM4:July 69:995:6660

Mathematical Programming
Econometric Model to Aid in Urban Planning Decisions, A. F. Brotchie, Ron Sharpe and A. Raymond Toakley, UP1:Mar 73:25:9587
Inverse Problem of Structural Optimization, Jasbir S. Arora, TN: ST11:Nov 74:2355:10904
Material Model for Granular Soils, Frank L. DiMaggio and Ivan S. Sandler, EM3:June 71:935:8212

Mathematical Studies
Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813

Mathematics
Analysis of Equalization Basins, Alfred T. Wallace, SA6:Dec 68:1161:6310
Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378
Decentralized Solid Waste Collection Facilities, Robert M. Clark and Billy P. Helms, SA5:Oct 70:1035:7594
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
Efficient Solution of Load-Deflection Equations, Robert J. Melosh and R. M. Bamford, ST4:Apr 69:661:6510
Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852
Grid Moment Maximization by Mathematical Programming, Francois N. Ayer and C. Allin Cornell, ST2:Feb 68:529:5818
Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819
Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094
Nonconservative Stability by Finite Element, C. D. Mote, Jr., EM3:June 71:645:8204

Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972

Optimization of Long-Span Cold-Formed Truss Purlins, Richard T. Douty and James O. Crooker, ST11:Nov 74:2275:10952

Optimum Design of Trusses for Ultimate Loads, William S. LaPay and George G. Goble, ST1:Jan 71:157:7838

Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280

Statistical Analysis of Continuous Data Records, Ross B. Corotis, TE1:Feb 74:195:10362

Surface Shear Waves, D. Howell Peregrine, HY9:Sept 74:1215:10809

Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72:1087:9260

Unsteady Flow in Channel of Variable Cross Section, John Ellis, HY10:Oct 70:1927:7583

Validity of Dupuit-Forchheimer Equation, Willard A. Murray and Peter L. Monkmeyer, HY9:Sept 73:1573:9997

Variational Principle in Fluid Dynamics, Pierre F. Lemieux, Tharakkal E. Unny and R. N. Dubey, EM6:Dec 70:1031:7731

Wind-Induced Circulation in Shallow Water, Henry Liu and Himerio J. Perez, HY7:July 71:923:8235

Matrices (Mathematics)

Algorithm for Matrix Bandwidth Reduction, Henry R. Grooms, ST1:Jan 72:203:8636

Analysis of Biaxially Loaded Steel H-Columns, Sakda Santathadaporn and Wai F. Chen, ST3:Mar 73:491:9621

Automatic Generation of Finite Element Matrices, Rene W. Luft, Jose M. Roesset and Jerome J. Connor, EC5:70:573

Automatic Generation of Finite Element Matrices, Rene W. Luft, Jose M. Roesset and Jerome J. Connor, ST1:Jan 71:349:7841

Bandwidth Minimization of Stiffness Matrices, James G. Crose, TN: EM1:Feb 71:163:7858

Behavior of Howe, Pratt, and Warren Trusses, John D. Renton, ST2:Feb 69:183:6388

Bounding of Frame Buckling Loads, Alfred Korn, ST8:Aug 70:1639:7452

Buckling of Multilayer Plates by Finite Elements, Harry R. Lundgren and Ahmed E. Salama, EM2:Apr 71:477:8051

Conditioning of Structural Flexibility Matrix, Charles H. Goodspeed and Michael J. Martin, ST8:Aug 74:1677:10763

Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105:9281

Cross-Velocity Behavior in Parallel Channel Flow, James F. Wilson, EM4:Aug 69:921:6736

Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595

Dynamic Stability Matrix for Planar Beams, James W. Gorzynski and William A. Thornton, TN: EM4:Aug 74:823:10692

Efficient Code for Steady-State Flows in Networks, Robert Epp and Alvin G. Fowler, HY1:Jan 70:43:7002

Efficient Solution of Load-Deflection Equations, Robert J. Melosh and R. M. Bamford, ST4:Apr 69:661:6510

Efficient Solutions for Linear Matrix Equations, H. Gordon Jensen and Gary A. Parks, ST1:Jan 70:49:7007

Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782

Elastic Analysis of Frameworks with Elastic Connections, Edgar Lightfoot and Andrew P. Le Messurier, ST6:June 74:1297:10632

Element Stiffness Matrix Generator, Richard H. Gunderson and Ayhan Cetiner, ST1:Jan 71:363:7842

Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811

Explicit Triangular Bending Element Matrix, William S. Doyle and Robert L. Harrison, ST7:July 74:1459:10680

Finite-Element Analysis of Nonlinear Structures, Robert H. Mallett and Pedro V. Marcal, ST9:Sept 68:2081:6115

Finite-Element Analysis of Thin Shells, Gerald A. Wempner, J. Tinsley Oden and D. A. Kross, EM6:Dec 68:1273:6259

Finite Segment Analysis of Folded Plates, Kam-Shing Lo and Alexander C. Scordelis, ST5:May 69:831:6544

Folded Plate Structures by Finite Strip Method, Yau-kai Cheung, ST12:Dec 69:2963:6985

Frame Vibrations by Consistent Mass Matrix, Fernando Venancio-Filho and Fernando Iguti, TN: ST9:Sept 73:1965:9968

Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828

Generalized Analysis of Pile Foundations, Lymon C. Reese, Michael W. O'Neill and Robert E. Smith, SM1:Jan 70:235:7032

General Treatment of Structural Modifications, John H. Argyris and John R. Roy, ST2:Feb 72:465:8732

Geometrically Nonlinear Analysis by Stiffness Method, James A. Stricklin, Walter E. Haisler and Walter A. Von Riesemann, ST9:Sept 71:2299:8392

Geometrically Nonlinear Finite-Element Analysis, Carlos A. Brebbia and Jerome J. Connor, EM2:Apr 69:463:6516

Geometric Nonlinearity in Nonprismatic Members, Cenap Oran, ST7:July 74:1473:10679

High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519

The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292

Inelastic Lateral Buckling of Restrained Beams, Hiroshi Yoshida and Yoshihiro Imoto, EM2:Apr 73:343:9666

Large Eigenvalue Problems in Dynamic Analysis, Klaus-Jurgen Bathe and Edward L. Wilson, EM6:Dec 72:1471:9433

Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472

Maximum Entropy Mixing in Estuaries, Dominic M. Di Toro, TE4:July 69:1247:6885

Natural Frequencies of Circular Arches, Joseph A. Wolf, Jr., ST9:Sept 71:2337:8393

Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746

Nonlinear Analysis of Cable and Truss Structures, Frank Baron and Mahadeva S. Venkatesan, ST2:Feb 71:679:7937

Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093

Numerical Error in Structural Solutions, John R. Roy, ST4:Apr 71:1039:8036

Rapid Reduction of Banded Stiffness Matrices, Frederic W. Williams, TN: ST5:May 73:967:9704

Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706

Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691

Rigorous Formulas for Effects of Weight Changes, Mohamed F. Madkour, SU2:Nov 71:173:8514

Solution of Linear Equations--State-of-the-Art, Christian Meyer, ST7:July 73:1507:9861

Static and Dynamic Analysis of Pile Foundations, William E. Saul, ST5:May 68:1077:5936

Statistical Linearization for Nonlinear Structures, Wilfred D. Iwan and I-Min Yang, EM6:Dec 71:1609:8576

A Stiffness Matrix Generator, Richard H. Gunderson and Ayhan Cetiner, EC5:70:595

Tangent Stiffness in Space Frames, Cenap Oran, ST6:June 73:987:9813

Theory of Nonlinear Elastic Structures, Graham H. Powell, ST12:Dec 69:2687:6943
Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248
Vogt Boundary for Finite Element Arch Dam Analysis, Gilbert A. Hartley, Gregory M. McNeice and Walter Stensch, ST1:Jan 74:51:10269

Matrix Algebra
Rigorous Formulas for Effects of Weight Changes, Mohamed F. Madkour, SU2:Nov 71:173:8514
Stability Analysis of Frameworks by Matrix Methods, Ottar P. Halldorsson and Chu-Kia Wang, ST7:July 68:1745:6032

Matrix Methods
Analysis of Asymmetrical Coupled Shear Walls, Arthur C. Heidebrecht and R. David Swift, ST5: May 71:1407:8100
Analysis of Eccentrically Stiffened Cylindrical Shells, Peter C. Kohnke and William C. Schnobrich, ST7: July 72:1493:9033
Automatic Generation of Finite Element Matrices, Rene W. Luft, Jose M. Roesset and Jerome J. Connor, EC5:70:573
Beams on Discrete, Nonlinear Elastic Supports, Aylmer P. Cheng and Howard L. Furr, ST11:Nov 69:2335:6873
Complete Adjustment Method for Analyzing Arch Dams, J. Laginha Serafim, J. Caldeira Rodrigues, Alferdo Portelo and Mario J. Milho, ST8:Aug 70: 1711:7492
Conjugate Gradient and Decomposition - Analogy, Moshe F. Rubinstein, TN: ST8:Aug 71:2165:8275
Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914
Efficient Reanalysis of Modified Structures, EC5:70: 619
General Treatment of Structural Modifications, John H. Argyris and John R. Roy, ST2:Feb 72:465:8732
Initial Buckling of Channels in Compression, William H. Wittrick and Frederic W. Williams, EM3:June 71:711:8177
Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455
Matrix Force Analysis of Thin-Walled Structures, Dusan Krajcinovic, ST1:Jan 70:107:7024
Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472
Matrix Method for Linear Response of Structures, Gordon B.J. Mah, EM5:Oct 69:1101:6831
Nonlinear Analysis of Cable and Truss Structures, Frank Baron and Mahadeva S. Venkatesan, ST2: Feb 71:679:7937
Numerical Error in Structural Solutions, John R. Roy, ST4:Apr 71:1039:8036
Over-All and Local Buckling of Channel Columns, Ahmed A. Ghobarah and Wai K. Tso, EM2:Apr 69:447:6513
Parametric Matrices of Some Structural Members, Leon Ru-Liang Wang, ST8:Aug 70:1735:7494
Planning for a New Town, Daniel W. Moore, UP1: Apr 71:79:8065
Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022
Stiffness Matrix for Plates by Galerkin's Method, Barna A. Szabo and George C. Lee, EM3:June 69: 571:6608
A Stiffness Matrix Generator, Richard H. Gunderson and Ayhan Cetiner, EC5:70:595
Structural Modification by Perturbation Method, Jaroslaw Sobieszczanski, ST12:Dec 68:2799:6268
Substructure Analysis by Matrix Decomposition, Richard Rosen and Moshe F. Rubinstein, ST3:Mar 70:663:7169
Tangent Stiffness Matrix for Space Frame Members, Semih S. Tezcan and Bijay C. Mahapatra, ST6:June 69:1257:6627
Unbalanced Tensions in Transmission Lines, David B. Campbell, ST10:Oct 70:2189:7622
Wind Induced Vibration in Light Poles, Hayes E. Ross, Jr. and Thomas Charles Edwards, ST6:June 70:1221:7383

Matrix Methods (Structural)
Incremental Finite Element Matrices, Sundaramoorthy Rajasekaran and David W. Murray, ST12:Dec 73:2423:10226
Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247

Matrix Theory
A Stiffness Matrix Generator, Richard H. Gunderson and Ayhan Cetiner, EC5:70:595

Mats
Design of Containment Base Mats, Anil K. Kar, SDNPF:Dec 73:323
Settlement of a Large Mat on Sand, Joseph A. Fischer, James T. Dette and Harcharan Singh, PES: 72:I-997
Stiffened Mats on Expansive Clay, Robert L. Lytton and Kirby T. Meyer, SM7:July 71:999:8265

Maximum Probable Flood
Spillway Design for Series of Reservoirs, Catalino B. Cecilio, Brook A. Kraeger and Vefa Yucel, HY10: Oct 74:1329:10851

Mean
Assessing and Reporting Uncertainties, State-of-Art Report 1, Carl J. Turkstra and Haresh C. Shah, TB: 73:Ib-10-919

Meanders
Flume Experiments on Alternate Bar Formation, Hai Yain Chang, Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869
Mechanism for Streamflow Meandering, Michael C. Quick, HY6:June 74:741:10587
River Bed Transport Related to Meander Migration Rates, Charles R. Neill, TN: WW4:Nov 71:783: 8491
River Channel Patterns, Shrikrishna V. Chitale, HY1: Jan 70:201:7038
Water Surface Configuration in Channel Bends, Chin-lien Yen and Ben Chie Yen, HY2:Feb 71:303:7928

Measurement
Benefits of Tunnel Measurements, Larry H. Heflin, EFSE:Aug 74:366
Engineering Measurements, Eugene L. Foster, EFSE: Aug 74:23
Integrated Measurement Framework for Transportation Planning, George C. Wickstrom, TE2:May 72:275:8910
Introduction to Metric or SI, Burton Kleinberg, CE: Mar 73:55
Measurement of InSitu Stress in Soils, Peter J. Huck and Madan M. Singh, EFSE:Aug 74:269
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276
Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779
Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437
Salt Penetration Technique for Seepage Measurement, Herman Bouwer and R. C. Rice, IR4:Dec 68:481:6304
The Self-Boring Placement Method of Soil Characteristics Measurements, Francois Baguelin, Jean-Francois Jezequel and Alain LeMehaute, EFSE:Aug 74:312
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
Wall Shear Stress Measurements with Hot-Film Sensors, Oner Yucel and Walter H. Graf, HYB:Aug 73:55

Measuring Instruments

Air Pollution Patterns in an Urban Street Canyon, Frederick A. Brunner and Karl B. Schnelle, Jr., EE2:Apr 74:311:10447
At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801
Axisymmetric Stress Wave Propagation in Sand, Richard A. Wetzel and Eben Vey, SM5:Oct 70:1763:7539
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
Boundary Shear Distribution in Open Channel Flow, S. N. Ghosh and N. Roy, HY4:Apr 70:967:7241
Boundary Shear Stress in Rivers and Estuaries, Ronald E. Nece and Dungan J. Smith, WW2:May 70:335:7280
Coastal Engineering Measurements, Johan A. Zwamborn, K. S. Russell and J. Nicholson, CE13:72:I-75
Combined Sewer Considerations by Philadelphia, Carmen F. Guarino, Joseph V. Radziul and William L. Greene, SA1:Feb 70:1:7050
Computer Control and Data Acquisition of a Tidal Model, E. R. Funke, CE13:72:III-2387
Control for Antarctic Ice Cap Reconnaissance, James L. Clapp, SU1:Jan 68:1:5716
Depth-Integrating and Dip Samplers, Walter G. Knisel and Ralph W. Baird, HY2:Feb 70:497:7084
Determination of In Situ Stresses in Concrete Dams, Merlin D. Copen and George Brown Wallace, PO2:Mar 71:455:7964
Development of Deep Hole Stress Measurement Device, E. R. Hoskins and E. H. Oshier, RM14:73:299
A Direct-Reading Pocket Shear Vane, Stanley Serota and Anil Jangle, CE:Jan 72:73
Distribution of Tractive Force in Open Channels, Viswanathan C. Kartha and Hans J. Leutheusser, HY7:July 70:1469:7415
A Dynamic Penetrometer For Investigating Sediment Properties, Robert D. Stoll, CEO-II:70:209
Electrode Potential Control Of Ocean Outfalls, Werner N. Grune, Philip Quinn and Susan DiPrima, CEO-II:70:1187
Equipment for Field Deformation Measurements, C. John Dunnicliff, 4PCSM:71:II319
Evaluation of Accuracy of Precise Leveling, M. Geisler and Haim B. Papo, SU2:Oct 67:103:5531
Evaluation of Barometric Leveling, James D. Gruendler, James L. Clapp and Paul R. Wolf, SU1:Apr 70:1:7195
Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229
Field Test of an X-ray Sediment-Construction Gage, Carl E. Murphree, Gerald Bolton and J. Roger McHenry, HY2:Mar 68:515:5868
Fifty Years in Surveying-Mapping-and the Future, George D. Whitmore, SU1:Oct 69:143:6860
Fluid Force Analysis and Accelerating Sphere Tests, Wallis S. Hamilton and James E. Lindell, HY6:June 71:805:8195
Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438
Holography—A New Tool for Soil Dynamics, Richard D. Woods, Norman E. Barnett and Rolf Sagesser, GT11:Nov 74:1231:10949
Hot-Film Turbulence Measurements in Water Flow, Francois J. Resch, HY3:Mar 70:787:7177
In-Situ Determination Of Seafloor Bearing Capacity, T. R. Kretschmer and H. J. Lee, CEO-II:70:679
In-Situ Investigation Using SH-Waves, Marcis Kurzeme, SM2:Feb 71:341:7918
Instrument for Long-Term Measurement of Suspended Matter (Silt Gauge), Harald Gohren and Hans Laucht, CE13:72:II-1089
Instrument Support Structure, Mervin D. Palmer, CEO-II:70:401
Large Area Wave-Load Meter, M. Geleedst and H. H. Hart, WW4:Nov 68:415:6209
Linear Proportional Weirs, P. Sreenivasulu and R. Raghavendran, HY2:Feb 70:379:7062
Low Velocity Penetration of Kaolin Clay, James D. Murff and Harry M. Coyle, SM5:May 73:375:9737
A Man of Hydraulics: Henri de Pitot (1695-1771), Rene Chevray, HY4:July 69:1129:6650
Map Control by Electronic Surveys, William A. McLaughlin, SU1:Apr 70:81:7226
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165:9768
Measurement of Turbulence in Water, Everett V. Richardson and Raul S. McQuivey, HY2:Mar 68:411:5855
Measuring Building Movement by Precise Survey, J. David Reynolds and John A. Dearinger, SU1:Apr 70:87:7228
Measuring Solid-Liquid Mixtures in Closed Conduits, Richard N. Weisman and Walter H. Graf, WW4:Nov 68:453:6232
Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779
New Approach to Hydrologic Data Acquisition, Edward J. Langham, HY12:Dec 71:1965:8578
Observational Data on Ground Movements Related to Slope Instability, Stanley D. Wilson, SM5:Sept 70:1519:7508
Optical Current Meter Use in Southern California, Thomas S. Chandler and Winchell Smith, HY9:Sept 71:1461:8390
Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311
Rectangular Cutthroat Flow Measuring Flumes, Gaylord V. Skogerboe and M. Leon Hyatt, IR:Dec 67:1:5628
Reevaluation and Reconstruction of California Dams, Clifford J. Cortright, PO1:Jan 70:55:7008
Robert Hooke's Water Current Meter, Circa 1663, Arthur H. Frazier, HY1:Jan 69:439:6369
Sediment Measurement Techniques: E. Airborne Sediment, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY1:Jan 70:29:7001
Shock Spectra From Subsurface Nuclear Explosions, Frank W. Galbraith and Robert N. Schreiner, EM5:Oct 68:1015:6140
Simultaneous Data System for Instrumenting the Shelf, Robert L. Lowe, Douglas L. Inman and Birchard M. Brush, CE13:72:I-95
Some Recent Findings in Flexible Pavement Research, Frank H. Scrivner and William M. Moore, HW2:Nov 68:229:6252
Some Results of a Directional Wave Recording Station, J. Ploeg, CE13:72:I-131
Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3:June 73:283:9797
A System for Measuring Orbital Velocities in Waves, M. M. Kolpak and P. S. Eagelson, 12CEC:71:327
Tacheometry in Survey Engineering, Joe E. Colcord, SU1:May 71:39:8141
Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243
Turbulence and Sediment Concentration due to Waves, Kiyoshi Horikawa and Akira Watanabe, 12CEC:71:751
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144
Use of Precision Gravity Survey to Determine Bedrock, John R. Sumner and John A. Burnett, GT1:Jan 74:53:10256
Vibration of Heavy Industrial Slabs, James H. Woodward and Claudie K. McDonald, TN: ST8:Aug 73:1797:9911
Wave Propagation in Confined Clay, Delon Hampton, Peter J. Huck and Ernest T. Selig, SM4:July 70:1391:7434
Wind Deflection of Tall Concrete Frame Buildings, John F. Wiss and Otto E. Curth, ST7:July 70:1461:7413

Mechanical Equipment

Maintenance and Repairs of Ancillary Equipment, Dale H. Doble, IMROD:Sept 73:451

Mechanical Equipment at Edmonston Pumping Plant, Samuel Fong, CO3:Sept 74:279:10794

Mechanical Equipment Problems on Old Dams, Fred Engstrom, IMROD:Sept 73:440

Service Systems, Theme Report, Richard Baum, TB: 73:Ia-2-305

Summary of Presentations and Discussions on Materials Deterioration and Ancillary Equipment, Eric B. Kollgaard and Joseph D. Walters, IMROD: Sept 73:528

Mechanical Properties

Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157

Materials for Structural Models, Frederic Roll, ST6: June 68:1353:5990

Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755

Volume Change Characteristics of Unsaturated Clay, Laing Barden, Anthony O. Madedor and Geoffrey R. Sides, SM1:Jan 69:33:6338

Mechanics

Analytical and Experimental Methods in Composite Mechanics, James M. Whitney, ST1:Jan 73:113: 9477

Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105: 9281

Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72: 1817:9127

Finite Element Method for Wood Mechanics, Adam Al-Dabbagh, James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784

Flow and Pressure of Granular Materials in Silos, George P. Deutsch and Douglas H. Clyde, EM6: Dec 67:103:5660

Free Vibration of Hyperbolic Cooling Towers, Mahmoud G. Hashish and Salman H. Abu-Sitta, EM2:Apr 71:253:8037

Free Vibrations of Hyperboloidal Shells of Revolution, Robert L. Carter, Arthur R. Robinson and William C. Schnobrich, EM5:Oct 69:1033:6808

Graphical Stability Analysis of Slopes in Jointed Rock, Klaus W. John, SM2:Mar 68:497:5865

Stability of a Submerged Stiffened Cylinder, Paul R. Paslay, EM6:Dec 67:179:5690

Statistical Linearization for Nonlinear Structures, Wilfred D. Iwan and I-Min Yang, EM6:Dec 71: 1609:8576

Subsidence of Sand Due to Surface Vibration, William F. Brumund and Gerald A. Leonards, SM1:Jan 72:27:8648

Symmetry in Structural Mechanics, Peter G. Glockner, ST1:Jan 73:71:9475

Two Nonlinear Beams with Definitions of Ductility, Melbourne F. Giberson, ST2:Feb 69:137:6377

Wind-Induced Circulation in Shallow Water, Henry Liu and Himerio J. Perez, HY7:July 71:923:8235

Medians (Dividers)

Concrete Median Barrier Safely Redirects Impacting Vehicles, Edwin C. Lokken, CE:Oct 71:77

Milwaukee Installs Concrete Median Barriers, Daniel A. Kastenholz, CE:July 73:88

Medical Services

Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155

Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73: 59:9493

Medicine

Involvement of Practitioners in Education for the Practice of Medicine, James F. Schieve, CEE:Feb 74:2-218

Medicine -- Introduction, M. D. Morris, CEWAU:74: 135

Membrane Processes

Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965

Membranes

Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101

An Analysis of Elliptic-Paraboloid Shell, S. P. Banerjee, ST10:Oct 68:2213:6151

Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11: Nov 72:2605:9356

Automatic Design Of Shell Structures, Peter G. Smith and Edward L. Wilson, EC5:70:289

Cable Net: Continuous System Analysis, Hugh Tottenham and Paul G. Williams, EM3:June 70: 277:7347

Elastic Plastic Bending of Circular Plates, Narendra K. Srivastava and Archibald N. Sherbourne, EM1: Feb 71:13:7902

Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236

Finite Deflections of Circular Membranes, John Peddieson, Jr., TN: EM3:June 73:634:9765

Finite-Element Analysis of Nonlinear Structures, Robert H. Mallett and Pedro V. Marcal, ST9:Sept 68:2081:6115

Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81

Membrane Analogy for Anisotropic Cable Networks, Bhupinder Pal Singh and Bhushan Lal Dhoopar, ST5:May 74:1053:10544

Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240

Membrane For Rockfill Triaxial Testing, Clarence K. Chan, TN: SM8:Aug 72:849:9085

Membrane Solutions for Shells with Edge Constraint, Charles R. Steele, EM3:June 74:497:10605

Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746

Shear Flexibility and Strength of Corrugated Decks, Eric R. Bryan and Wagih M. El-Dakhakhni, ST1: Nov 68:2549:6218

Static Wind Loads on Circular Concave Cable Roofs, Gerald R. Seeley, Heinz Stefan and Paul P. Christiano, ST8:Aug 74:1593:10751

Memoirs of Deceased Members

See name of member in Name Index

Memory

Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554

Meningitis

Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567

Mercury (Metal)

Improving Mercury (II) Removal by Activated carbon, Michael J. Humenick, Jr. and Jerald L. Schnoor, EE6:Dec 74:1249:11032

Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73: 257:9753

Mesh Reinforcement

Ferrocement—Material Behavior in Flexure, Colin D. Johnston and Dallas N. Mowat, ST10:Oct 74:2053: 10878

Metabolism

Energy Concepts of Aerobic Microbial Metabolism, Carl E. Burkhead and Ross E. McKinney, SA2:Apr 69:253:6505

Metal Plates

Penstocks For Six Pumped Storage Projects, J. Edgar Revelle and Robert W. Mikitka, PO2:Mar 71:435:7947

Metals

Buckling of Axially Loaded Cylindrical Panels, Pan San Hsueh and Alexander Chajes, EM3:June 71:919:8210
Buckling of Light-Gage Corrugated Metal Shear Diaphragms, John T. Easley and David E. McFarland, ST7:July 69:1497:6683
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Metals in Wastewater Treatment, William H. Ailor, Jr., EE2:Apr 74:295:10444
Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428
Plastic Indentation of Metal Blocks by Flat Punch, Wai F. Chen, EM3:June 70:353:7370
Problems of Toxicity Measurements in Activated Sludge, Ludwig Hartmann and Gerhard Laubenberger, SA2:Apr 68:247:5894
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Tangent Stiffness Method for Biaxial Bending, Sakda Santathadaporn and Wai F. Chen, ST1:Jan 72:153:8637
Trace Metal Accumulation by Estuarine Mollusks, Benjamin H. Pringle, Dale E. Hissong, Edward L. Katz and Stefan T. Mulawka, SA3:June 68:455:5970
Ultimate Strength of Biaxially Loaded Steel H-Columns, Wai F. Chen and Toshio Atsuta, ST3:Mar 73:469:9613

Meteorology

Air Pollution Patterns in an Urban Street Canyon, Frederick A. Brunner and Karl B. Schnelle, Jr., EE2:Apr 74:311:10447
Augmenting Colorado River by Weather Modification, Patrick A. Hurley, IR4:Dec 68:363:6271
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72:585:9413
Considerations in Design of Air Monitoring Network, Alroy F. Aschoff, PO1:Mar 69:119:6475
Density Altitude Variations and Runway Length, Thomas B. Davinroy, TE4:Nov 71:591:8512
Dr. Santorio's Water Current Meter, Circa 1610, Arthur H. Frazier, HY1:Jan 69:249:6351
Estimation of Deep Freezing Indices, George McCormick, TE3:Aug 71:401:8276
Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948
Generalized Rainfall-Duration-Frequency Relationships, Frederick C. Bell, HY1:Jan 69:311:6357
Gulf of Mexico Meteorology and Oceanography Data, E. G. Ward, WAVES:Sept 74:233
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451
Pan Evaporation and Evapotranspiration from Climatic Data, Jerald E. Christiansen, IR2:June 68:243:5988
Rapid Creek Watershed, Donald A. Thorson, HYB:Aug 73:449
Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365
Research Review -- Europe and Africa, State-of-Art Report 2, H. Van Koten, TB:73:Ib-7-375
Research Review -- North and South America, State-of-Art Report 3, W. Alan Dalgliesh and R. D. Marshall, TB:73:Ib-7-383
Tellurometer Ground Swing Over Ice Surface, Thomas A. Asbeck and James L. Clapp, SU1:May 71:53:8149
Weather Effects on Mason Productivity, Clayford T. Grimm and Norman K. Wagner, CO3:Sept 74:319:10783
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Methacrylates

Polymer as Surface Treatment for Concrete, Alvin H. Meyer, ST6:June 74:1205:10615

Methemoglobinemia

Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45

Methodology

Effect of Period of Record on Flood Prediction, Peter Victorov, HY11:Nov 71:1853:8525

Metric System

Book Review: VNR Metric Handbook, Carter H. Harrison, Jr., CE:May 73:20
Definitions of Surveying and Associated Terms -- Manual and Report on Engineering Practice No. 34, 1972, 205 pp.
Impact of Metrication on the Construction Industy, Richard H. Clough, EI3:July 74:225:10646
Introduction to Metric or SI, Burton Kleinberg, CE:Mar 73:55
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261

Mexico

Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:1237
Eight Years of Observations at El Infiernillo Dam, Raul J. Marsal and Luis Ramirez de Arellano, PES:72:I-703
The Failure of Laguna Dam, Raul J. Marsal and Wolfang Pohlenz, PES:72:I-489
Field Measurements at La Angostura Cofferdams, Luis Ramirez De Arellano and Edmundo Moreno Gomez, PES:72:I-779
Foundation of Cerro de Oro Dam, Mexico, Raul J. Marsal and Aurelio Benassini, EFFD:Mar 74:249
Geomechanical Instrumentation in Mexico Tunnels, Derek F. Berry, URC:72:51
Geotechnical Studies for La Angostura Project, Mexico, Raul J. Marsal, EFFD:Mar 74:425
Settlement Around Shield Driven Tunnels (In Spanish), Jose Tinajero Saenz and Luis Vieitez Utesa, 4PCSM:71:II225
Settlement of Some Piled Foundations in Mexico, Pablo Girault, PES:72:I-1185
Settlements Near Excavations (In Spanish), Jesus Alberro A., 4PCSM:71:II211
Stress-Strain Analysis of El Infiernillo Dam, Jesus Alberro A., PES:72:I-837
Study of Topolobampo's Bay, Mexico, Entrance, Hector Lopez Gutierrez and Daniel Cervantes Castro, 12CEC:71:1151
Wellton-Mohawk Drainage and the Mexican Salt Problem, Clifford C. Tabor, IR73:Aug 73:285

Mica

Effect of Mica on K_0 Compressibility of Two Soils, Charles A. Moore, SM9:Sept 71:1275:8401

Michigan

Construction of a Pumped Storage Power Plant on Soil Foundations, Robert L. Polvi, EFFD:Mar 74:143
Design and Construction Features — Greenwood Unit One, Satyen M. Guha-Biswas, EPCE:Aug 74:279
Ludington, Mich., Pumped Storage Project, Carl F. Whitehead, CE:June 73:64
Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350

Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623

Microanalysis
Bactericidal Disinfectant Testing by Micromethods, Winfred F. Maline, Theodore F. Wetzler and Lloyd G. Herman, NSCD:71:307
Homogeneity Analysis and Planning Studies, Robert E. Paaswell, UP2:Dec 71:125:8561

Microbiology
Energy Concepts of Aerobic Microbial Metabolism, Carl E. Burkhead and Ross E. McKinney, SA2:Apr 69:253:6505
Response of Completely Mixed Systems to Hydraulic Shock Loads, Thazhethil K. George and Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103

Micrococcus
Estimating Eutrophic Potential of Pollutants, Dee Mitchell and James C. Buzzell, Jr., SA4:Aug 71:453:8333

Microenvironment
The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292

Microfilm
Current Practices in Drafting, Reproduction and Storage of Engineering Drawings, Eugene E. Dallaire, CE:Jan 74:73
Reproducing And Storing Engineering Drawings, Eugene E. Dallaire, CE:Mar 74:45

Micrometeorology
Air Pollution Patterns in an Urban Street Canyon, Frederick A. Brunner and Karl B. Schnelle, Jr., EE2:Apr 74:311:10447

Microorganism Control (Water)
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567

Microorganisms
Modern Concept of Disinfection, Shih L. Chang, SA5:Oct 71:689:8441
Reaeration Experiments with Microorganisms, Thomas Micka, Edward R. Holley and Frank W. Sollo, TN: EE6:Dec 73:971:10186

Microscopy
Effect of Particle Characteristics on Soil Strength, Robert M. Koerner, SM4:July 70:1221:7393
Photomicroscopic Sublayer Velocity Measurement, Harry G. Wenzel, Jr. and Michael J. Mathews, HY12:Dec 70:2467:7724

Microwave Antennas
New Microwave Tower Design Reduces Drag, Demetri Zavitzianos, CE:Mar 71:46

Military Air Facilities
Air Force Pavement Design System Concepts, B. Frank McCullough and Morris W. Pearson, TE4:Nov 74:921:10929

Military Draft
The Military Draft: Educational and Occupational Deferments for Engineers, Betty M. Vetter, CE:May 69:67

Military Engineering
Continuing Education in the Strategic Air Command, William A. Orth, Colonel, CEE:Feb 74:1-874
Lagoons for Military Sewage Treatment in South Vietnam, David M. Duttweiler and John A. Burgh, CE:May 69:47

Military Training
The Military Draft: Educational and Occupational Deferments for Engineers, Betty M. Vetter, CE:May 69:67

Mine Drainage
Stripmining and Watershed Management, W. David Striffler, IRS:Sept 72:79

Mineral Content
Contribution of Minerals to the Ground Water Due to Agriculture in the Upper Santa Ana River Basin of Southern California, Ahmad Amin Hassan, OIDS:72:245

Mineral Deposits
Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421

Mineralogy
High Pressure Experiments on Soil and Rock, Donald J. Murphy, Jr., RM13:72:691

Mines
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263
Mine Grouting to Control Building Settlement, Charles I. Mansur and Marion C. Skouby, SM2:Mar 70:511:7166

Mine Shafts
Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739

Mine Wastes
Engineering Properties of Mine Tailings, Howard C. Pettibone and C. Daniel Kealy, SM9:Sept 71:1207:8382

Minimax Technique
Linear Programming and Channel Flow Identification, William Wen-Gong Yeh and Leonard Becker, HY11:Nov 73:2013:10177
Turn Penalty Effects on Minimum Time Paths, Donald L. Woods, J. T. Brudeseth and Vergil G. Stover, TE4:Nov 69:659:6896

Minimum Weight Design
Absolute Minimum Weight Structures by Dynamic Programming, Lawrence A. Twisdale and Narbey Khachaturian, TN: ST11:Nov 74:2339:10116
Inverse Problem of Structural Optimization, Jasbir S. Arora, TN: ST11:Nov 74:2355:10904
Least-Weight Frameworks for Loads Across Span, Richard E. McConnel, EM5:Oct 74:885:10872
Minimum Weight Design of Stress Limited Trusses, Behrooz Farshi and Lucien A. Schmit, Jr., ST1:Jan 74:97:10259
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337:9404
Unified Approach to the Theory of Plastic Structures, M. Z. Cohn, Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246
Weight Optimization of Plane Trusses, Samuel L. Lipson and Krishna M. Agrawal, ST5:May 74:865:10521

Minimum Weight Theory
Minimum Weight Design Of Light Gage Steel Members, Paul A. Seaburg and Charles G. Salmon, EC5:70:319
Optimization of Steel-Building Components, State-of-Art Report 4, Jan Brodka and Josef Wilbik, TB:73:II-14-201

Mining
Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421
First Long-Distance Iron Slurry Pipeline, E. H. Griesshaber, CE:Jan 69:66
Keynote Address, Albert A. Mathews, SUSS:July 73:3
Methods For Deep-Ocean Mineral Recovery, John B. Herbich, CEO-II:70:297
Mine Subsidence and Support Methods in Pittsburgh Area, Richard E. Gray and James F. Meyers, SM4:July 70:1267:7407
Opening Remarks, James R. Graham, SUSS:July 73:1

"Research and Applied Technology Symposium on Mine-Land Reclamation," by Bitumenious Coal Research, Inc. (Book Review), Richard D. Zande, CE:July 74:42
Rock Mechanics Education -- A Panel Discussion, H. Douglas Dahl, K. E. Gray and Leonard Obert, RM14:73:747
Shotcrete Practices at the Henderson Mine, Robert C. Jones, SUSS:July 73:50
Stress Measurement by Retractable Cable Method, Rodolfo V. de la Cruz, RM13:72:865
Subsurface Environment—Private Property or Public Domain?, William R. Walker and William E. Cox, HY11:Nov 74:1699:10958
Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501
Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623
Treatment of Mine Drainage by Industry in Pennsylvania, Walter N. Heine and Ernest F. Giovannitti, SA3:June 70:743:7362
Use of Shotcrete from the Standpoint of the Owner, Gordon M. Miner, SUSS:July 73:13

Mining Equipment
Laser Alignment Techniques Utilized in Tunneling, Austin Cooney, SU2:Sept 70:229:7545

Mining Research
Substation Over Old Mine Gets Firm Footing, James A. Collins, CE:Dec 73:41

Minnesota
Civil Engineering: Flexible or Rigid Program, Howard I. Epstein, CEE:Feb 74:1-16
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85

Minority Groups
ASCE Involvement in Social Action, Stephen L. Tuttle, EI3:July 74:201:10690
ASCE Minority Programs, Gerald L. Baker, CE:Aug 73:54
ASCE'S Response to the Spencer Proposals, Board of Direction, ASCE, CE:Aug 70:46
Black People Call for ASCE Social Action, Ralph E. Spencer, CE:Dec 69:73
Career Guidance Programs for Minority Youth, Lawrence M. Moy and James E. Roembke, EI3: July 74:207:10691
C.E. Technology Minority Student Considerations, Philip L. Brach, CEE:Feb 74:1-296
Educational Needs for Engineering Practice and Recommended Follow-Up Program (Discussion), George J. Kral, CEE:Feb 74:2-345
Federal Funds Available to Sections for Minority Programs, Stephen L. Tuttle, CE:Feb 73:66
Guidance and Motivational Programs, Stephen L. Tuttle, Bob Younger, Jack Pitts and John Moran, CEE:Feb 74:1-996
How to Entice Minority Youth into Engineering, Howard Jackson, CE:July 74:54
Minorities In Engineering - How Does Your Company Stack Up?, Montrust Q. Burrell, EI1:Jan 74:41:10271
Minority Employment—A Job for ASCE, Sol E. Cooper, EI3:July 74:191:10689
Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72: 431:9075
Patterns of Mobility of Working Poor, Arthur Saltzman and Alice E. Kidder, TE3:Aug 74:769: 10760
Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884
Statement of Affirmative Action Principles, Benito A. Sinclair, EI3:July 74:183:10688
Student Development, Guidance and Minorities in Civil Engineering, Alvin Newman, CEE:Feb 74:2-191
Training Minorities for Construction Work, Ewell W. Finley, CE:Mar 72:76
Women in Civil Engineering Education, Judith S. Liebman, CEE:Feb 74:1-993

Missile Launching Sites
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807

Missile Models
A General Study of Tornado Generated Missiles, A. J.H. Lee, SDNPF:Dec 73:515
Selection of Design Basis Tornado, M. A. Suarez, SDNPF:Dec 73:597
Tornado Generated Missiles, James R. McDonald, Joseph E. Minor and Kishor C. Mehta, SDNPF: Dec 73:543

Mississippi
Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653
Water Resources Planning For Pascagoula Basin, Mason B. Oldham, Jr. and John W. Rushing, WW1:Feb 70:65:7060

Mississippi River
Emergency Grouting of Old River Low Sill Structure, La., E. Burton Kemp, EFFD:Mar 74:371
The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60
Mississippi River Water for Texas?, Ottoniel Arguello and Raphael G. Kazmann, IR4:Dec 73:441:10212
Mississippi Valley Mapping, Leslie B. Robison, SU1: May 71:103:8102
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
Replacement-Lock and Dam No. 26: Plans Considered, Richard C. Armstrong, WW1:Feb 70: 49:7071

Missouri
Corps of Engineers Promotes Continuing Education, Melford E. Monsees, CE:Jan 72:63
Navigation Model Tests for Straight Reach of Missouri River, Duane J. Sveum and Warren J. Mellema, WW2:May 72:191:8867
Planning Profitable Irrigation Investments in Missouri, Herman E. Workman, OIDS:72:491
Regional Waste Water System, Charles B. Kaiser, Jr., CWFE:Mar 71:57
St. Louis Cleans up the Mississippi, CE:May 72:61
The Wainwright Building, John D. Randall, TB:73:C-P-352

Mixing
Buoyant Forced-Plumes in Cross Flow, Vincent H. Chu and Michael B. Goldberg, HY9:Sept 74:1203: 10805
Characterization of Mixing Aerated Lagoons, Keith L. Murphy and Alfred Warren Wilson, EE5:Oct 74: 1105:10865
Computer Model for Thermal Plume, Robert E. Barry and David P. Hoffman, PO1:June 72:117: 8985
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727
An Evaluation of Mixing in the Tay Estuary, J. R. West and David J.A. Williams, CE13:72:III-2153
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493
Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313: 10241
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
Horizontal Surface Discharge of Warm Water Jets, Nobuyuki Tamai, Robert L. Wiegel and Gordon F. Tornberg, PO2:Oct 69:253:6847
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345

Interfacial Wave Breaking in Stratified Liquids, Ralph R. Rumer, Jr., HY3:Mar 73:509:9633
Mathematical Model of Mixing in New Haven Harbor, Michael D. Disko, Robert A. Norris and Francis C. Lutz, 12CEC:71:1847
Measurement of Density Currents in an Idealized Model, Timm Stuckrath, 12CEC:71:1979
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Power Law Solutions for Vertical Plumes, Richard R. Brock, HY9:Sept 70:1803:7523
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856
Turbulence in the Weakly Mixing Zone of the Interface, Toshio Iwasaki and Tetsuo Abe, ISSF: Aug 72:251
Unsteady Spread of Buoyant Surface Discharge, James J. Sharp, HY9:Sept 71:1471:8396
Use of Mixing Tubes on Marine Outfalls, Richard Silvester and Mana Patarapanich, CE13:72:III-2171
Velocity and Temperature in Buoyant Jet, Richard B. Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
Volumetric Proportioning, Blending, and Mixing, Ralph W. Coho, Jr., SUSS:July 73:101

Mobility
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999
Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341

Mobilizing
Engineering Services for Construction, Altaf Hussain, CO3:Sept 74:273:10787

Modal Split
Approaches for Improving Airport Access, Raymond H. Ellis, John C. Bennett and Paul R. Rassam, TE3:Aug 74:661:10737
Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, TE4:Nov 74:943:10936
The Economics and Importance of Speed, Herbert S. Levinson, HW1:June 68:1:5972
Evaluation of New Systems For Urban Transportation, Reed H. Winslow and Jerry L. Pfeffer, TE4:Nov 72:757:9354
Highway and Modal Choice Decisions, Donald A. Morin, TE1:Feb 73:145:9569
Impedance Minimization Travel Choice Process, Edward A. Beimborn, TE2:May 72:177:8882
Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953
New Concepts in Urban Parking, John G. Schoon and Herbert S. Levinson, TE3:Aug 74:611:10731
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73: 725:10126
Patterns of Mobility of Working Poor, Arthur Saltzman and Alice E. Kidder, TE3:Aug 74:769: 10760
Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571: 9960
Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942
Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750
STOL Passenger Demand in Underdeveloped Areas, Jason C. Yu, TE3:Aug 71:475:8298
Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3: Aug 72:715:9124

Mode (Statistics)
Ambient Vibration of Two Suspension Bridges, V. R. Mc Lamore, Gary C. Hart and Ian R. Stubbs, ST10:Oct 71:2567:8454
Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3: June 72:561:8958
Torsional Vibrations of Conical Frustum, Surendra R. Shah, EM5:Oct 71:1521:8452

Models
Air Pollution Patterns in an Urban Street Canyon, Frederick A. Brunner and Karl B. Schnelle, Jr., EE2:Apr 74:311:10447
Analysis of BART Impacts on Bay Area Land Use, Douglass B. Lee, Jr., TE2:May 72:395:8907
Analysis of Need for Goods Movement Forecasts, Davit Fresko, Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174
Analytical and Model Studies of Continuous Folded Plates, John E. Goldberg, Martin J. Gutzwiller and Robert H. Lee, EM5:Oct 68:1127:6181
Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187: 9338
Base Year Trip Tables for Statewide Traffic Models, Dana E. Low, TE3:Aug 69:559:6752
Beaches Produced by Waves of Low Phase Difference, Patrick H. Kemp and David Plinston, HY5:Sept 68:1183:6100
Bearing Capacity of Footings in Plane Strain, Hon-Yim Ko and Luther W. Davidson, SM1:Jan 73:1: 9496
Behavior of Unsymmetrical-Continuous Folded Plates, Karl C. Muhlbauer and Fred W. Beaufait, ST12:Dec 69:2783:6958
Box Girder Model Studies, Dennis E. Myers and Peter B. Cooper, ST12:Dec 69:2845:6966
Bridge Piers-Hydrodynamic Force Coefficients, Colin J. Apelt and Lewis T. Isaacs, HY1:Jan 68:17:5707
Calibration of Walnut Gulch Supercritical Flumes, Wendell R. Gwinn, HY8:Aug 70:1681:7479
Close-Range Photogrammetric Data Reduction Scheme, Dennis E. Moellman and Houssam M. Karara, SU2:Sept 68:211:6106
Codes and Model Testing, John Springfield, TB:73: Ib-7-431
Comparison of Footing Vibration Tests with Theory, Frank E. Richart, Jr. and Robert V. Whitman, SM6:Nov 67:143:5568
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
Concepts and Utilities of Ecologic Model, Carl W. Chen, SA5:Oct 70:1085:7602
Concrete Hulls for Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, ST4:Apr 71:1283:8078
Cylindrical Shell Roofs with Draped Prestressing, A. H. Bryant and J. C. Scrivener, ST4:Apr 71:611: 6496
Demand Model for Intercity Multimode Travel, Jason C. Yu, TE2:May 70:203:7282
Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191
Deterministic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE4:Aug 74:979:10735
Directional Analysis in Model Design, Fernando Vasco Costa, EM2:Apr 71:519:8053
Discharge Facilities at Hells Canyon Dam, J. T. Gilchrist and D. E. Barclay, PO2:Nov 68:161:6230
Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73: 747:9729
Dynamic Behavior of Rocks to Spherical Stress Waves, R. P. Swift and M. W. McKay, RM13:72: 797
Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837
Elastic Characteristics of Moorings, Jean Sommet, BMS:71:93
Elastic-Plastic Foundation Model for Punch-Shear Failure, Warren J. Rhines, SM3:May 69:819:6560

Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
Energy Dissipators for Large Culverts, Thomas C. MacDonald, HY6:Nov 69:1941:6893
Experimental Study of Flexural-Torsional Buckling, Alois J. Hartmann, ST7:July 70:1481:7414
Experiments with Elastic Folded Plate Models, Stuart E. Swartz and Vernon H. Rosenbraugh, EM3:June 72:711:8992
Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Failure Model Calculations, Horea Sandi, TB:73:Ib-10-1038
Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7: July 73:1439:9854
Falling Water Table Between Tile Drains, Dirk E. L. Maasland and R. A. Shery, IR2:June 67:9:5258
Full Scale Observation of the Behavior of Moored Ships, Robert C. H. Russell, BMS:71:133
GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shemsul A. Akhand, TE3:Aug 74:593:10717
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708
Improving Airport Gate Usage with Critical Path, John P. Braaksma and John H. Shortreed, TE2: May 71:187:8090
An Induced Failure at a Trial Embankment: Part II Finite Element Computations, C. P. Wroth and B. Simpson, PES:72:I-65
Inelastic Behavior Of R/C Cylindrical Shells, Harry G. Harris and Richard N. White, ST7:July 72:1633: 9074
Investigation of Spherical Shell Foundation, A. K. Sharma, TN: SM6:June 73:489:9815
Issues in Statewide Transportation Planning, Joseph S. Drake and Lester A. Hoel, TE3:Aug 70:379:7480
Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
Load Fluctuations in Turbulent Flow, Barry J Vickery, EM1:Feb 68:31:5782
Materials for Structural Models, Frederic Roll, ST6: June 68:1353:5990
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225: 8866
Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713
Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
Model for Machine-pile Foundation-soil System, Madhira Radha Madhav and N. S.V. Kameswara Rao, TN: SM1:Jan 71:295:7787
Modeling Gas Mixing within Steel Chimney Liners, James J. Markowsky, EPCE:Aug 74:137
Model Investigation of Berthing Impacts, Andre Pierre X. Pages, BMS:71:209
Model Investigation of Berthing Impacts, Robert C. H. Russell, BMS:71:215
Model I-Shaped Beams under Alternating Deflections, Settiana G. Krishnasamy and Archibald N. Sherbourne, TN: ST3:Mar 71:1015: 7946
Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671
Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1: Feb 73:201:9576
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
Model Study of Laterally Loaded Piles, Melvin T. Davisson and James R. Salley, SM5:Sept 70:1605: 7511
Mossyrock Arch Spillway, David S. Louie, PO1:Jan 71:39:7792
Motar Models of Prestressed Concrete Reactor Vessels, James M. Corum, Richard N. White and Jack E. Smith, ST2:Feb 69:229:6419
Nonlinear Parameter Estimation in Water Quality Modeling, J. S. Shastry, Liang-tseng Fan and L. E. Erickson, EE3:June 73:315:9798
Nonstationary Stochastic Model of Earthquake Motions, Mohammad Amin and Alfredo H.-S. Ang, EM2:Apr 68:559:5906
A Numerical Model for the Hydrodynamics of Lagoons, Jacobus van de Kreeke, CE13:72:III-2241
Numerical Model for Wave Pressure Distributions, J. Richard Weggel and W. Hall C. Maxwell, WW3: Aug 70:623:7467
Numerical Modeling of Constituent Transport in Bay Systems, Robert G. Dean and R. B. Taylor, CE13: 72:III-2227
A Numerical Model of Estuarine Pollutant Transport, Hugo B. Fischer, CE13:72:III-2255
On Wave Damping in Harbors, Charles E. Lee, WW4:Nov 68:489:6241
Optimal Selection of Flexible Pavement Components, Salim S. Hejal, Thomas R. Buick and Joseph C. Oppenlander, TE2:Feb 71:1:7877
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73: 725:10126
Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176
Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:1:9706
Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201: 9188
Photoelastic Model Studies of Wye Manifold Branches, S. Redner and J. H. Perrotta, PL1:Oct 68:107:6180
Physical Model of the Moored Ship as an Oscillating System, Fernando Vasco Costa, BMS:71:53
Planning Major Activity Center Distributor Systems, Michael J. Demetsky and Lester A. Hoel, TE1:Feb 74:237:10319
Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123
Predicting Irrigation Requirements of Crops, Wilfredo P. David and Edward A. Hiler, IR3:Sept 70:241: 7507
Preliminary Model of Potomac Estuary Phytoplankton, Robert V. Thomann, Dominic M. Di Toro and Donald J. O'Connor, EE3:June 74: 699:10576
Progress Model for Construction Activity, Robert I. Carr, Thomas O. Brightman and Franklin B. Johnson, CO1:Mar 74:59:10428
Regression Model of Wave Forces on Ocean Outfalls, Ronald E. Johnson, WW2:May 70:289: 7275
Reinforced Concrete Beam-Column Connection, Eric F.P. Burnett and Rajendra P. Jajoo, ST9:Sept 71: 2315:8395
Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
Research on Pipeline Flotation, Albert J. Bonar and Osman I. Ghazzaly, TE2:May 73:211:9718
Response of Triangular Prisms in Turbulent Wind, Peter W. Chen, Alan G. Davenport, Nicholas Isyumov and Leslie E. Robertson, ST11:Nov 71: 2679:8526
Scale and Boundary Effects in Foundation Analysis, James Graham and John Gordon Stuart, SM11:Nov 71:1533:8510
Sealing Sands with Waterborne Bentonite, Myron B. Rollins, IR4:Dec 67:25:5640
Similitude in Free-Surface Vortex Formations, Larry L. Daggett and Garbis H. Keulegan, HY11:Nov 74: 1565:10941

Simulation Model of Urban Refuse Collection, Marcus M. Truitt, Jon C. Liebman and Cornelius W. Kruse, SA2:Apr 69:289:6508
Some Design Aspects of a Divided Gate Tower, W. L. Grigg, Robert E. Johnson and Rolf Kellerhals, PO2:Oct 67:1:5482
Some Problems with the Calculation of Seismic Forces on Equipment, Asadour H. Hadjian, SDNPF:Dec 73:1
Stability Behavior Illustrated by Simple Models, Alexander Chajes, ST6:June 69:1153:6598
Stability Studies of a Footwall Slope in Layered Coal Deposit, C. O. Brawner, D. L. Pentz and J. C. Sharp, RM13:72:329
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858
Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343
Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549
Structural Response to Sonic Booms, Roland L. Sharpe and Garrison Kost, ST4:Apr 71:1157:8063
Substrate Removal Mechanism of Trickling Filters, Bruce E. Jank and W. Ronald Drynan, EE3:June 73:187:9769
Technical Movie of Papago Freeway, John Girand, TE4:Nov 71:619:8506
Temperature-Toxicity Model for Oil Refinery Waste, James H. Reynolds, E. Joe Middlebrooks and Donald B. Porcella, EE3:June 74:557:10580
Test of a Reinforced Concrete Flat Slab, D. S. Hatcher, Mete A. Sozen and Chester P. Siess, ST6: June 69:1051:6585
Tests of One and Two-Story Flat Plate Models, C. Trevor Harnden, ST3:Mar 74:513:10392
Theoretical Analysis of Curved Girder Bridges, Terry R. Douglas and Samuel C. Gambrell, Jr., EM5:Oct 74:991:10871
Thermal Discharge: A Model-Prototype Comparison, Peter D. Hindley, Russell M. Miner and Ramon F. Cayot, PO4:Dec 71:783:8580
Tidal Velocities Across A Partly-Completed Barrage, A. Roy Halliwell, HY5:Oct 67:85:5427
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
Transient Wind Loads on Circular Concave Cable Roofs, Paul P. Christiano, Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966
Transportation Access to Special Generators, Frederick J. Wegmann, John Ojo and Michael Kennedy, TE3:Aug 74:643:10728
Transportation Model Applied to Landfill Design, Robert B. Conrad and E. Kenneth Hoffman, EE3: June 74:549:10575
Trial Load Analyses Confirm Arch Dam Model Tests, Archie A. Stone and Gurmukh S. Sarkaria, PO2:Oct 67:37:5503
Two-Dimensional Analysis of Backwater at Bridges, J. Thomas Franques and Dannial W. Yannitell, HY3:Mar 74:379:10403
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
Use of Models for the Study of the Behavior of Moored Ships, Francis Biesel, BMS:71:136
Vibration of Noncircular Foundations, Yong S. Chae, SM6:Nov 69:1411:6918
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259
Water-Quality Management in Irrigation Systems, Gerald T. Orlob and Philip C. Woods, IR2:June 67: 49:5280
81-ft Model of Prestressed Bridge, CE:Oct 72:83

Model Studies
Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534
Chesapeake Bay Model Study for Calvert Cliffs, Lawrence C. Neale, PO4:Dec 71:827:8602
Decay of Mass Oscillations in Rectangular Basins, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY1: Jan 74:119:10261
Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672
A Model Study on the Slope Stability Around an Open Pit, Y. S. Kim and R. R. Dimock, Jr., RM13: 72:201
Plunging Wave Pressures on Semicylindrical Tube, Yuan Jen and Pang-Mou Lin, WW3:Aug 71:567: 8342
Spillway Design for Series of Reservoirs, Catalino B. Cecilio, Brook A. Kraeger and Vefa Yucel, HY10: Oct 74:1329:10851

Model Tests
Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71: 1675:8577
Behavior of Stiffened Curved Plate Model, Conrad P. Heins, Jr. and Robert L. Hails, ST11:Nov 69:2353: 6876
Finite Element Analysis of Rock-Salt Pillar Models, Robert Lee Thoms, Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393
Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360
Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
Model and Prototype Tests of Buoyant Spillway Gates, Arthur G Strassburger and James F Sias, PO2:Oct 69:335:6863
Model Investigations of Pile Groups in Sand, Andrzej F. Tejchman, SM2:Feb 73:199:9579
Model I-Shaped Beams under Alternating Deflections, Settiana G. Krishnasamy and Archibald N. Sherbourne, TN: ST3:Mar 71:1015: 7946
On Model Studies for Tunnels in Jointed Rock, Richard E. Goodman, Francois E. Heuze and Gilles J. Bureau, RM14:73:441
Structure And Foundation Interaction Theory, Ian K. Lee and Howard B. Harrison, ST2:Feb 70:177:7059
Study of Suspended Roof Model, Prem Krishna and Tej P. Agarwal, ST6:June 71:1671:8168
Substrate Removal Mechanism of Trickling Filters, Bruce E. Jank and W. Ronald Drynan, EE3:June 73:187:9769
Two-Point Mooring System for Spar Buoy, John H. Nath and Steve Neshyba, WW2:May 71:295:8115

Modular Structures
Civil Engineering Education for the 1970's, Edward G. Nawy, CE:Aug 71:70
Floor-Ceiling System Features Precast Concrete Units, Jerome S.B. Iffland, CE:Apr 72:52
In-Home Shelters from Extreme Winds, Ernst W. Kiesling and David E. Goolsby, CE:Sept 74:105
Modular Systems Make Shore Protection Economical, Carl R. Wilder and Earl R. Koller, CE:Oct 71:60

Modules
Floor-Ceiling System Features Precast Concrete Units, Jerome S.B. Iffland, CE:Apr 72:52
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Modulus of Elasticity
Concrete Beams with Prestressed Reinforcement, Alfred G. Bishara and Filomeno N. Almeida, ST7: July 70:1445:7411
Flexural Vibrations of Laminated Plate, Jan D. Achenbach and Tony R. Zerbe, EM3:June 71:619: 8181
Long-term Pressures Effects on Shear Modulus of Soils, Sherif S. Afifi, SM10:Oct 71:1445:8475
A Study of Bulk and Shear Moduli of a Sand, Leonard Domaschuk and Neil H. Wade, SM2:Mar 69:561:6461

Mohr Failure Theory
Mohr-Coulomb Strength Theory for Anisotropic Soils, Wallace H. Baker and Raymond J. Krizek, SM1:Jan 70:269:7015

Moire Effects
Determination of Signs in Moire Method, Fu-Pen Chiang, EM6:Dec 69:1379:6963
Development and Potentials of Moire Method of Strain Analysis for Rock Testing, Kuppusamy Thirumalai and R. L. Fischer, RM13:72:727
Moire-Rosette Method For Strain Analysis, Fu-Pen Chiang, TN: EM6:Dec 70:1285:7715

Moisture Availability
The Evaluation of Water Evaluation, George H. Hargreaves, IRS:Sept 72:273

Moisture Content
Economic Aspects of Curing Mass Concrete, Bryant Mather, ECCD:72:39
Optimal Timing of Irrigation, Warren A. Hall and William S. Butcher, IR2:June 68:267:5993
Standard Penetration Tests in Collapsible Soils, Aldo R. Reginatto, 4PCSM:71:II77
Strength Versus Energy Dissipation in Sandstone, Michael K. McCarter and John E. Willson, RM14:73:223

Moisture Deficit
The Evaluation of Water Evaluation, George H. Hargreaves, IRS:Sept 72:273

Moisture Uptake
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240

Molds
Precast Concrete for Cladding on Mass Concrete, Arthur R. Anderson, RCCD:70:309

Molybdenum Ore Deposits
Shotcrete Practices at the Henderson Mine, Robert C. Jones, SUSS:July 73:50

Moment Distribution
Continuous Beams With Prestressed Reinforcement, Alfred G. Bishara, George E. Mason and Filomeno N. Almeida, ST9:Sept 71:2261:8387
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72:2541:9345
Half Frame Method, Bernardo J. Deschapelles, TB:73:II-16-591
Hardy Cross and the Rise of Numerical Methods, James Michalos, ST3:Mar 72:691:8762
Iterative Method for Solving Rectangular Plates, B. Sen, S. Sengupta and T. K. Nath, ST1:Jan 72:135:8644
Matrix Distribution, Ralph Mozingo, ST4:Apr 68:1043:5918
Methods of Analysis, Bernardo J. Deschapelles, TB:73:III-21-309
Moment-Resistance Connections in Precast Concrete, Emile Langlois and Joseph Menec, Jr., ST12:Dec 69:2723:6947
Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72:1697:9154
Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485

Moments
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
Base Moment for a Class of Linear Systems, Jacobo Bielak, EM5:Oct 69:1053:6810
Buckling of Inelastic I-Beams Under Uniform Moment, Nicholas S. Trahair and Sritawat Kitipornchai, ST11:Nov 72:2551:9339
Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398
Column Moments in Eccentrically Supported Tanks, Phillip L. Gould and Subir K. Sen, TN: ST10:Oct 74:2165:10858
Cracking and Control, Neil Jackson, TB:73:III-24-723
Design Aids for Beams with Circular Eccentric Web Holes, Richard G. Redwood and Peter W. Chan, ST2:Feb 74:297:10331
Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679:8993
Elastic Plastic Bending of Circular Plates, Narendra K. Srivastava and Archibald N. Sherbourne, EM1:Feb 71:13:7902
General Analysis of Laterally Loaded Beam-Columns, Francois Cheong Siat Moy, ST6:June 74:1263:10625
Grid Moment Maximization by Mathematical Programming, Francois N. Ayer and C. Allin Cornell, ST2:Feb 68:529:5818
Influence Surfaces for Continuous Plates, Richard E. Woodring and Chester D. Seiss, ST1:Jan 68:211:5755
Limit States Design of Slabs Using Lower Bound Approach, B. Vijaya Rangan, ST2:Feb 74:373:10348
Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617
Method of Analysis of Laterally Loaded Columns, Francois Cheong Siat Moy, ST5:May 74:953:10548
Pattern Loading on Reinforced Concrete Floor Slabs, James O. Jirsa, Mete A. Sozen and Chester P. Siess, ST6:June 69:1117:6588
Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595
Spandrel-Slab Interaction, Mario G. Salvadori, ST1:Jan 70:89:7017
Tests of a Two-Way Reinforced Concrete Floor Slab, William L. Gamble, Mete A. Sozen and Chester P. Siess, ST6:June 69:1073:6586
Torsion, Bending and Shear in Prestressed Concrete, Priya R. Mukherjee and Joseph Warwaruk, ST4:Apr 71:1063:8041
Warping Stresses In Slabs On Reissner Foundation, Annapareddy Siva Reddy and Mysore R. Pranesh, TE3:Aug 71:511:8332

Momentum
Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675
Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948
P-Function Approximations For Jet Momentum Flux, W. Hall C. Maxwell and Kuo- Cheng Chang, TN: EM4:Aug 72:1011:9082
Plane Jet on Sloping Floors Under Finite Submergence, Valupadas Mura Hari, HY9:Sept 73:1449:10027

Momentum Equation
Open-Channel Flow Equations Revisited, Ben Chie Yen, EM5:Oct 73:979:10073
Simulation Accuracies of Gradually Varied Flow, J. Peter Jolly and Vujica Yevjevich, HY7:July 74:1011:10677

Monitoring
Environmental Problems and Monitoring in Coastal Waters, Arthur T. Ippen, CE13:72:I-9
An Evaluation of Mixing in the Tay Estuary, J. R. West and David J.A. Williams, CE13:72:III-2153
Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913
Improved Monitoring of Civil Engineering Education - The Need and a Method (Discussion), Richard G. Coulter, CEE:Feb 74:2-32º
Marine Monitoring of the Victoria Sewerage System, Norval Balch, Derek V. Ellis and Jack L. Littlepage, CE13:72:III-2117
Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437
Planning Monitoring Frequencies for CPM Projects, Douglas Vasco Costa, CO2:Nov 71:211:8503
Search for Economical Construction of Concrete Dams Based on Results of Observation, J. Laginha Serafim, M. Guerreiro and C. Gonzalez Florez, ECCD:72:311

Some Methods of Monitoring Open Pit Sludge, Bruce A. Kennedy, RM13:72:537

Monitors
Accelerometer-Monitored Coring, William L. Preslan, CEO-II:70:655
Considerations in Design of Air Monitoring Network, Alroy F. Aschoff, PO1:Mar 69:119:6475
The Federal Water Pollution Control Administration's Research Program on Ocean Pollution Control, Arnold B. Joseph, Fred D. Sisler, Donald J. Baumgartner and William A. Cawley, CEO-II:70:465

Monoliths
Failure Probabilities of Reinforced Concrete Beams, James F. Costello and Kuang-han Chu, ST10:Oct 69:2281:6848

Monorail Railways
A Civil Engineer's Guide to EXPO 70, Shunta Shiraishi and Yuzo Matsui, CE:Mar 70:43
Houston Airport's Low Cost People-Mover, Hal K. Puckett and James C. Williamson, TE1:Feb 74:255:10330
State of the Art-Urban Transportation Systems, Donald O. Eisele, TE3:Aug 69:439:6729
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Walt Disney World Monorail Designed for Smooth Riding, Robert F. Mast and Charles W. Dolan, CE:Mar 72:48

Montana
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305
Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269
Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395
Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
Spillway Stilling Basin Repair Using Bonded Concrete and Epoxy Mortar, James R. Graham, OIDS:72:185

Monte Carlo Method
Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387:9128
Analysis of Floating Plate Under Ocean Waves, Yi-Kwei Wen and Masanobu Shinozuka, WW2:May 72:177:8889
A Monte Carlo Approach to Seepage in Jointed Rock, William E. Kelly, RM13:72:227
Monte Carlo Simulation of Industrial Waste Discharges, Paul M. Berthouex and Linfield C. Brown, SA5:Oct 69:887:6836
Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930
Monte Carlo Study of Structural Safety, Robert F. Warner and A. P. Kabaila, ST12:Dec 68:2847:6275
Parametric Study of Wind Loading on Structures, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634
Probabilistic Analysis of Fire Safety, Sven Erik Magnusson, TB:73:Ib-10-1016
A Probabilistic Approach to Determine Wave Forces on Ocean Pile Structures, G. I. Schueller and Haresh C. Shah, CE13:72:III-1683
Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363:9328
Stochastic Analysis of Beach Profile Data, Choule J. Sonu and Myron H. Young, 12CEC:71:1341
Using Experimental Models to Guide Data Gathering, Charles F. Meyer, HY10:Oct 71:1681:8449

Montmorillonite
Protection of E. Coli by Montmorillonite in Seawater, Gabriel Bitton and Ralph Mitchell, TN:EE6:Dec 74:1310:10978
Shearing Strength of Kaolinite, Illite, and Montmorillonite, Roy E. Olson, GT11:Nov 74:1215:10947

Monuments
A New Philosophy on Preservation of Survey Evidence, R. B. Buckner, SU2:Sept 70:213:7540
On Writing Descriptions, Richard R. Mayer, SU2:Sept 68:101:6094

Moody Resistance Diagrams
Junction Losses in Laminar and Transitional Flows, Donald K. Jamison and James R. Villemonte, HY7:July 71:1045:8258
Transformation of Moody Diagram, Krishna C. Asthana, HY6:June 74:797:10624

Moon
Apollo 11: Soil Mechanics Results, Nicholas C. Costes, W. David Carrier, III, James K. Mitchell and Ronald F. Scott, SM6:Nov 70:2045:7704

Mooring
The Added Mass of a Ship in Longitudinal Oscillation, Jean Sommet, BMS:71:174
Berth Planning by Evaluation of Congestion and Cost, Stavros N. Nicolaou, WW4:Nov 67:107:5577
Design Criteria for Fenders and Berthing Structures, Brendan F. Saurin, BMS:71:256
Dynamics Of A Single Point Mooring In Deep Water, John H. Nath and Michael P. Felix, CE0-II:70:45
Dynamics of Ship Anchor-Lines in Waves and Currents, Basil W. Wilson and Donald H. Garbaccio, WW4:Nov 64:449:6888
Dynamics of Single Point Mooring in Deep Water, John H. Nath and Michael P. Felix, WW4:Nov 70:815:7700
Elastic Characteristics of Mooring Lines, Basil W. Wilson, BMS:71:80
Elastic Characteristics of Moorings, Jean Sommet, BMS:71:93
Full Scale Observation of Berthing Impacts: Their Interpretation, John T. O'Brien, BMS:71:203
Full Scale Observation of the Behavior of Moored Ships, Basil W. Wilson, BMS:71:117
Full Scale Observation of the Behavior of Moored Ships, John T. O'Brien, BMS:71:130
Full Scale Observation of the Behavior of Moored Ships, Robert C. H. Russell, BMS:71:133
Full Scale Observations on Berthing Impacts: Their Interpretation, Brendan F. Saurin, BMS:71:198
Harbor Study for San Nicolas Bay, Peru, James M. Keith and Emmett J. Murphy, 12CEC:71:2195
Longitudinal Motions of Taut Moorings, Tokuo Yamamoto, John H. Nath and Charles E. Smith, WW1:Feb 74:35:10321
The Mechanics of Impact and Evaluation of the Hydrodynamic Mass Analytic Study of the Problem of Berthing, Fernando Vasco Costa, BMS:71:157
The Mechanics of Impact and Evaluation of the Hydrodynamic Mass, Brendan F. Saurin, BMS:71:192
Model Investigation of Berthing Impacts, Andre Pierre X. Pages, BMS:71:209
Model Investigation of Berthing Impacts, Robert C. H. Russell, BMS:71:215
The Moored Ship as an Oscillating System, Robert C.H. Russell, BMS:71:48
The Moored Ship as an Oscillating System - The Non-linear Problem, Antonio G. Portela, BMS:71:67
Offshore Floating Terminals, Eugene H. Harlow, WW3:Aug 71:531:8295
Offshore Mooring Systems, Robert C. H. Russell, BMS:71:254
Off-shore Mooring Systems at Exposed Locations, Albert Steenmeyer, BMS:71:241

Off-shore Mooring Systems at Protected or Semi-protected Locations, Albert Steenmeyer, BMS:71:224

Physical Model of the Moored Ship as an Oscillating System, Fernando Vasco Costa, BMS:71:53

Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73:485:10179

Probabilistic Aspects of Seiche Action on Ships, Francis Biesel, BMS:71:27

References to Literature on Mooring and Berthing of Ships Mainly Published between 1965 and 1970, Basil W. Wilson, BMS:71:288

Seiches and Other Causes of the Motion of Ships Already Moored, Basil W. Wilson, BMS:71:1

Seiches and Other Causes of the Motion of Ships Already Moored, John T. O'Brien, BMS:71:20

Selection of Fenders, Fernando Vasco Costa, BMS:71:260

Supplement List of Needs in Research on Problems of Berthing and Mooring Ships, Basil W. Wilson, BMS:71:286

Use of Models for the Study of the Behavior of Moored Ships, Francis Biesel, BMS:71:136

Ways to Improve Berthing Operations, Basil W. Wilson, BMS:71:268

Ways to Improve Berthing Operations, Fernando Vasco Costa, BMS:71:273

Moorings

The Added Mass of a Ship in Longitudinal Oscillation, Jean Sommet, BMS:71:174

Case History of Los Angeles-Long Beach Harbors, Robert W. Whalin, Claude E. Chatham, Donald L. Durham and Ellis B. Pickett, WAVES:Sept 74:466

Design Criteria for Fenders and Berthing Structures, Brendan F. Saurin, BMS:71:256

Dynamics Of A Single Point Mooring In Deep Water, John H. Nath and Michael P. Felix, CE0-II:70:45

Dynamics of Single Point Mooring in Deep Water, John H. Nath and Michael P. Felix, WW4:Nov 70:815:7700

Elastic Characteristics of Mooring Lines, Basil W. Wilson, BMS:71:80

Elastic Characteristics of Moorings, Jean Sommet, BMS:71:93

Full Scale Observation of Berthing Impacts: Their Interpretation, John T. O'Brien, BMS:71:203

Full Scale Observation of the Behavior of Moored Ships, Basil W. Wilson, BMS:71:117

Full Scale Observation of the Behavior of Moored Ships, John T. O'Brien, BMS:71:130

Full Scale Observation of the Behavior of Moored Ships, Robert C. H. Russell, BMS:71:133

Full Scale Observations on Berthing Impacts: Their Interpretation, Brendan F. Saurin, BMS:71:198

Harbor Study for San Nicolas Bay, Peru, James M. Keith and Emmett J. Murphy, 12CEC:71:2195

Longitudinal Motions of Taut Moorings, Tokuo Yamamoto, John H. Nath and Charles E. Smith, WW1:Feb 74:35:10321

The Mechanics of Impact and Evaluation of the Hydrodynamic Mass Analytic Study of the Problem of Berthing, Fernando Vasco Costa, BMS:71:157

The Mechanics of Impact and Evaluation of the Hydrodynamic Mass, Brendan F. Saurin, BMS:71:192

Model Investigation of Berthing Impacts, Andre Pierre X. Pages, BMS:71:209

Model Investigation of Berthing Impacts, Robert C. H. Russell, BMS:71:215

The Moored Ship as an Oscillating System, Robert C.H. Russell, BMS:71:48

The Moored Ship as an Oscillating System - The Non-linear Problem, Antonio G. Portela, BMS:71:67

Offshore Mooring Systems, Robert C. H. Russell, BMS:71:254

Off-shore Mooring Systems at Exposed Locations, Albert Steenmeyer, BMS:71:241

Off-shore Mooring Systems at Protected or Semi-protected Locations, Albert Steenmeyer, BMS:71:224

Physical Model of the Moored Ship as an Oscillating System, Fernando Vasco Costa, BMS:71:53

Probabilistic Aspects of Seiche Action on Ships, Francis Biesel, BMS:71:27

References to Literature on Mooring and Berthing of Ships Mainly Published between 1965 and 1970, Basil W. Wilson, BMS:71:288

Seiches and Other Causes of the Motion of Ships Already Moored, Basil W. Wilson, BMS:71:1

Seiches and Other Causes of the Motion of Ships Already Moored, John T. O'Brien, BMS:71:20

Selection of Fenders, Fernando Vasco Costa, BMS:71:260

Supplement List of Needs in Research on Problems of Berthing and Mooring Ships, Basil W. Wilson, BMS:71:286

Two-Point Mooring System for Spar Buoy, John H. Nath and Steve Neshyba, WW2:May 71:295:8115

Use of Models for the Study of the Behavior of Moored Ships, Francis Biesel, BMS:71:136

Ways to Improve Berthing Operations, Basil W. Wilson, BMS:71:268

Ways to Improve Berthing Operations, Fernando Vasco Costa, BMS:71:273

Morning Glory Spillway

Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859

Mortars

Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, Emil Grasser and F. Daschner, TB:73:III-21-290

Ferrocement—Material Behavior in Flexure, Colin D. Johnston and Dallas N. Mowat, ST10:Oct 74:2053:10878

Mortars (Material)

Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327

Hypothesis for Shear Failure of Brickwork, Bryan Stafford Smith and Clifford Carter, ST4:Apr 71:1055:8029

New Mortars, Prefab Walls Transform Concrete Masonry, Henry T. Toennies, CE:July 73:46

Surface-Bonded Concrete-Block Panels, Herbert W. Busching, Donald H. Hamilton and James G. Goree, EM2:Apr 74:359:10493

Motion

Analysis of Soil Movement Around a Deep Excavation, Chin-Yung Chang and James M. Duncan, SM5:Sept 70:1655:7512

Bedrock Motions Computed from Surface Seismograms, Constantine N. Papadakis, Victor L. Streeter and E. Benjamin Wylie, GT10:Oct 74:1091:10853

Elastic Characteristics of Moorings, Jean Sommet, BMS:71:93

Human/Machine Interface in Moving Walk Design, Rick Kuner, MTI:May 72:139

Human Response to Tall Building Wind-Induced Motion, State-of-Art Report 6, John W. Reed, Robert J. Hansen and Erik H. Vanmarcke,, TB:73:II-17-687

Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868

Incipient Motion and Sediment Transport, Chih Ted Yang, HY10:Oct 73:1679:10067

A New Kind of Ground Motion, G. Rudolfo Saragoni, TB:73:Ib-6-323

Probabilistic Aspects of Seiche Action on Ships, Francis Biesel, BMS:71:27

Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165

Rating of Ground Motion, Arturo Arias, TB:73:Ib-6-320

Recording Inclinometer for Measuring Soil Movement, Leslie G. Bromwell, Christopher R. Ryan and William E. Toth, 4PCSM:71:II333

Sand Movement Measurement Near Anchor Plates, Robert W. Carr and Thomas H. Hanna, TN: SM5: May 71:833:8087
Seiches and Other Causes of the Motion of Ships Already Moored, Basil W. Wilson, BMS:71:1
Seiches and Other Causes of the Motion of Ships Already Moored, John T. O'Brien, BMS:71:20
Structural and Terrain Movements, John A. Dearinger, SU2:Nov 74:123:10896
Variable Speed Walkways, Ralph W. Blevins, Victor J. Dietz and Richard D. Burson, MTI:May 72:347

Motion Studies
Bedrock Motions Computed from Surface Seismograms, Constantine N. Papadakis, Victor L. Streeter and E. Benjamin Wylie, GT10:Oct 74: 1091:10853

Motivation
Creativity, The Young Engineer's Viewpoint, David R. Antes, CEWAU:74:22
Guidance and Motivational Programs, Stephen L. Tuttle, Bob Younger, Jack Pitts and John Moran, CEE:Feb 74:1-996
Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185

Motor Vehicle Accidents
Design Requirements for Safer Highway Bridge Rails, Robert M. Olson, Edward R. Post and Don L. Ivey, TE2:May 71:291:8125
Developing an Improved Traffic Operations Program, Peter A. Mayer, TE2:May 71:263:8099

Motor Vehicles
California Tackles Highway Noise, James D. Collins, CE:Nov 73:56

Movable Bed Models
Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367

Movement
Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867
Movements in Dams Due to Reservoir Filling, Esmail S. Nobari and James M. Duncan, PES:72:I-797
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB: 73:III-25-793

Mud
Decrease in Scour Rate of Fresh Deposited Muds, Iaakov Karcz and Gonapathy Shanmugam, TN: HY11:Nov 74:1735:10923
Field Test of Debris Fill Over Soft Soil, Henry T. Taylor and Albert L. Buchignani, PES:72:I-395
Sand Drain Performance on a San Francisco Bay Mud Site, Edward Margason and Ignacio Arango, PES:72:I-181
Standard Test Boring with Drilling Mud, Charles S. Hedges, 4PCSM:71:II63

Mud Flats
Study of Mudbanks along the Southwest Coast of India, N. S. Moni, 12CEC:71:739

Multiphase Flow
Numerical Solution of Multiphase Well Flow, Willem F. Brutsaert, HY11:Nov 73:1981:10162

Multiple Purpose Projects
Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827: 9304
Optimization of an Existing Large Complex Drainage System, N. N. Khanal and Robert L. Hamrick, OIDS:72:503
Simulation Techniques for Water Project Analyses, Milton L. Holloway and Lial F. Tischler, IR3:Sept 74:211:10784
Solid Waste Management: Equity Trade-Off Models, Louis A. Fuertes, James F. Hudson and David H. Marks, UP2:Nov 74:155:10913

Multiple Purpose Reservoirs
A Case Study of Water Supply & Flood Plain Zoning, William R. Trautman, IAWM:72:193
Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3: July 72:373:9029

Multiple Use
Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096

Multiplication
Tests of One and Two-Story Flat Plate Models, C. Trevor Harnden, ST3:Mar 74:513:10392
Yield Criterion for Reinforced Concrete Slabs, Satish Jain and John B. Kennedy, ST3:Mar 74:631:10409

Multivariate Analysis
Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735
Exact and Invariant Second-Moment Code Format, Abraham M. Hasofer and Niels C. Lind, EM1:Feb 74:111:10376
Multivariate Study of Refuse Collection Efficiency, Lawrence J. Partridge, Jr. and Joseph J. Harrington, EE4:Aug 74:963:10729
Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192
Multivariate Techniques for Water Quality Analysis, Jerome L. Mahloch, EE5:Oct 74:1119:10840
Rational Multivariate Algal Growth Kinetics, E. Joe Middlebrooks and Donald B. Porcella, TN: SA1: Feb 71:135:7859

Municipal Engineering
ASCE Salary Survey, Charles J. Stevens, Chmn., PP3:July 72:393:9025
Biking and Hiking Through Red Tape, Margret M. Rimmer, BP73:Dec 73:9
Centralized Treatment of Industrial Wastewaters, Charles A. Monaghan and Don Simmons, CE:June 73:85
The City and the Civil Engineer, Walter G. Heintzleman, PP1:Oct 71:55:8479
Civil Engineering Education - A Mechanism for Interaction with Urban Practice (Discussion), Albert A. Grant, CEE:Feb 74:2-325
Comprehensive Public Water Supply Planning, Anthony Pavone, SA5:Oct 71:745:8450
Computerized Residential Refuse Districting, Geoffrey N. Berlin, UP2:Nov 74:173:10916
Economical Refuse Truck Size Determination, Richard P. Cardile and Francis H. Verhoff, EE3: June 74:679:10612
Educating Public Works Engineers and Administrators, Donald C. Stone, CEE:Feb 74:1-679
Education for Public Works Engineering and Proposed ASCE Policy on Engineering Education (Discussion), Donald C. Stone, CEE:Feb 74:2-294
Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Management Degree Program for Employed Public Works Directors, A. Morgan Johnson, CEE:Feb 74: 1-728
Municipal Considerations in Transportation Planning, Richard B. Robertson, TE1:Feb 69:1:6378
The Municipal Engineer's Role in Planning Water Resources Development, Mercel J. Shelton, PP1: Dec 67:37:5668
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456

Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131

NACE Paper: County Engineering Career Demands, David L. Weir, CEE:Feb 74:1-354

The Nixon Administration and the City, E. E. Halmos, Jr., CE:Sept 69:98

Organizational Alternatives in Consolidating Irrigation Systems, Evan Vlachos, OIDS:72:317

Planning Standards for Storm Drainage, Myron D. Calkins, UP1:Mar 70:53:7133

A Program For New Towns, Ira J. Bach, UP1:Apr 71:55:8059

Promising Trends in Education in Public Works Engineering, Herbert A. Goetsch, CEE:Feb 74:2-114

Status of Use and Research in Surveying and Mapping, William T. Pryor, Chmn., SU2:Sept 68:243:6122

Storm Drainage Practices of Thirty-two Cities, Colby V. Ardis, Kenneth J. Dueker and Arno T. Lenz, HY1:Jan 69:383:6365

Urban Mass Transportation Planning, Lyle G. Wermers, UP1:Mar 70:41:7128

Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365:9879

Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044

1973 Salary Survey, by the Committee on Employment Conditions of the Department of Professional Activities, Edward A. Bryant, Chmn., EI2:Apr 74:127:10450

Municipalities

Planning for a New Town, Daniel W. Moore, UP1:Apr 71:79:8065

Municipal Water

Economic Impact of the Conversion of Water from Irrigation to Municipal and Industrial Use in the Rio Grande Basin of New Mexico, Edwin A. Lewis, IR73:Aug 73:67

Impacts of Rural to Urban Water Use, Jean O. Williams, IR73:Aug 73:85

Irrigation Engineering and National Goals, William S. Butcher, OIDS:72:13

Research Needs in Sanitary Engineering, Jack M. Betz, Chmn., SA2:Apr 72:299:8833

Nails

Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189

Theoretical Lateral Resistance of Nailed Joints, Thomas Lee Wilkinson, ST5:May 71:1381:8121

Nappe

Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704

National Defense

General Aviation in Our Transportation System, George P. Coker, ASC73:Mar 73:133

National Government

What's the Deal? Government Negotiates Engineering Services, Richard H. Tatlow, III, PP1:Sept 70:81:7557

National Historic Sites

Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885

Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811

National Income

Financing Water Quality Control on a National Basis, Morris H. Klegerman, CWFE:Mar 71:131

Irrigation Engineering and National Goals, William S. Butcher, OIDS:72:13

Needed - A New Outlook for Irrigation, Ellis L. Armstrong, OIDS:72:1

Natural Flow

Implicit Flood Routing in Natural Channels, Michael Amein and Ching S. Fang, HY12:Dec 70:2481:7773

Natural Frequency

Longitudinal Motions of Taut Moorings, Tokuo Yamamoto, John H. Nath and Charles E. Smith, WW1:Feb 74:35:10321

Lowest Natural Frequency Of Clamped Parabolic Arcs, TN: ST1:Jan 72:407:8619

Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213

A Simplified Approach to Compute Natural Frequencies of Vertical Tanks and Heat Exchangers with Skirt Supports, Chi-Wen Lin, SDNPF:Dec 73:35

Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau-Kai Cheung, EM5:Oct 72:1225:9233

Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923

Natural Gas

Estimating Natural Gas Pipeline Friction Parameters, Michael A. Stoner and Michael A. Karnitz, TE3:Aug 74:757:10762

Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149

Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883

Natural Radioactivity

Detection of Upward Percolation of Saline Lake Water, C. J. Braudo, F. Mero and A. Mercado, HY9:Sept 70:1795:7519

Natural Resources

Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383

Approaches and Viewpoints of State Natural Water Resources Agencies, William Whipple, Jr., UWRM:71:100

Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025

Consideration of Alternatives in Decision Making, Ellis L. Armstrong, EI2:Apr 74:119:10498

Ecological Values and Regional Planning, Ian McHarg, CE:Aug 70:40

Effect of Intake Elevation and Operation on Water Temperature, Walter O. Wunderlich and Rex A. Elder, HY6:Nov 69:2081:6917

Effect of Unit Weight and Slope on Erosion, Richard L. Foster and L. Glen Martin, IR4:Dec 69:551:6984

The Engineer and the EIS: Some NEPA Court Decisions, Jack Golden and Thomas R. Mongan, CE:Mar 74:49

Environmental Aspects of Site Selection, Eugene F. Dudley, PO1:June 72:21:8971

The Environmental Challenge--Values in Conflict, James H. Wright, PP1:Oct 71:17:8471

Environmental Considerations in Design of Transmission Lines, Harry Brenman and Dwight A. Covington, PO3:June 70:369:7350

Environmental Effects of Oil Pollution, Thomas A. Murphy, SA3:June 71:361:8221

Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994

Environmental Protection-TVA Experience, Francis E. Gartrell and James C. Barber, SA6:Dec 70:1321:7761

Interdisciplinary Planning to Meet Environmental Needs, Frederick J. Clarke, PP4:Oct 72:497:9262

Introduction to Session II -- Recycling of Land Resources, Oscar S. Bray, PWS:Nov 72:37

Is Technology Relevant?, Michael C. Kavanaugh, CE:Oct 70:44

Notes on Trees and Tree Planting, Hans F. Bell, CE:July 73:77

Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173

Some Environmental Effects of Drainage in Florida, William V. Storch and Robert L. Taylor, IR1:Mar 69:139:6460

Swampy Site Turned into Prize-Winner, James L. Hart, CE:June 73:82

Unique Role of Water in a Developing Economy, Clark N. Crain and David W. Greenman, IR1:Mar 69:79:6439

Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044

Water Resources and Regional Land-Use Plan, James C. Ringenoldus, SA6:Dec 70:1311:7735

The Watershed Approach for Fish and Wildlife, L. Dean Marriage, IAWM:72:369

Natural Streams

Predicting Effects of Dead Zones on Stream Mixing, Edward L. Thackston and Karl B. Schnelle, Jr., SA2:Apr 70:319:7218

Naval Ships

Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098

Navier-Stokes Equations

Finite-Element Analogue Of Navier-Stokes Equation, J. Tinsley Oden, TN: EM4:Aug 70:529:7444

Finite Element Solution for General Fluid Motion, Gary L. Guymon, HY6:June 73:913:9789

Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533

Navigable Canals

Field and Laboratory Studies: Navigation Channels of the Columbia River Estuary, Morrough P. O'Brien, CE13:72:III-2465

Navigable Rivers

Great Falls Canal and Locks: Civil Engineering Landmark, CE:Nov 72:53

Navigation

The Arkansas River Project, Ronald A. Antonino, CE:Dec 69:44

Barge Transportation-Energizer of Production and Marketing, Braxton B. Carr, WW2:May 69:163:6559

Charting New Transportation Environment, John A. Osborn, SU2:Sept 70:265:7565

Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559

Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314

Economics of Channels and Maneuvering Areas for Ships, Richard G. Waugh, Jr., WW4:Nov 71:671:8537

Fluid Mechanics and Lock Design, John S. McNown, WW3:Aug 67:9:5365

Framework Plan for Ohio Basin Navigation to 2020, Theodore A. Kent, WW3:Aug 70:665:7473

GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shemsul A. Akhand, TE3:Aug 74:593:10717

History and Future of Ohio River Navigation, Carl H. Gaum, WW2:May 70:483:7304

Hydrography and the Engineer, Colin G. McQ. Weeks, SU1:Sept 73:1:9981

Implieation of Systems Analysis to Inland Navigation, DuWayne A. Koch, WW3:Aug 71:559:8302

Interoceanic Canal Navigation Criteria, Edwin W. Eden, Jr., WW2:May 70:395:7288

Potamology Data Collection on Lower Mississippi River, Charles M. Elliott, WW3:Aug 70:601:7466

Power Generation Under IJC Regulation, George T. Berry, PO2:Nov 68:217:6257

Problems of Inland Waterway Lock Dimensions, John P. Davis, WW2:May 70:451:7295

Regional Approach to Port Development Planning, Howard J. Marsden, WW1:Feb 71:33:7896

Reliability of Refraction in Polar Astronavigation, Gerald W. Johnson and James L. Clapp, SU2:Nov 71:165:8502

Replacement-Lock and Dam No. 26: Condition of Existing Structure, Daniel P. Marshall, Jr., WW1: Feb 70:27:7097

Replacement-Lock and Dam No. 26: History, Objectives and Scope, Edwin R. Decker, WW1:Feb 70:1:7070

Replacement-Lock and Dam No. 26: Projecting Waterborne Commerce-Inland Navigation, DuWayne A. Koch, WW1:Feb 70:9:7100

River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1: Jan 74:1:10281

Sector Gates in Bangkok Klong System, Fred C. Stepanich, WW4:Nov 71:721:8549

Solar Astronavigation in High Latitudes, Gerald W. Johnson and James L. Clapp, SU1:May 71:27:8139

Surge Problems in Canals with High-Lift Locks, Donald M. Liddell, WW2:Nov 69:467:6898

Surveys and Mapping in Water Resource Development, Kerry F. Pitts, SU1:May 71:69:8088

Systematic Errors in High Latitude Astronavigation, Gerald W. Johnson, TN: SU2:Nov 74:183:10905

Tonnage Capacity of Locks, John P. Davis, WW2: May 69:201:6577

Two Innovations for Improving Harbor Resonators, William James, WW1:Feb 71:115:7871

Water Depths Required for Ship Navigation, Richard G. Waugh, Jr., WW3:Aug 71:455:8309

Navigational Charts

Chart Compilation-Field and Office, William J. Monteith, SU2:Sept 70:157:7522

Mission of U.S. Lake Survey, James E. Bunch, SU2: Sept 70:181:7527

Navigation Charting for Inland Waterways, Benjamin O. Holmes, SU1:Oct 69:117:6856

Nebraska

Groundwater Control by Pumping, James A. Robertson, Jr., Frank J. Dragoun and Dale W. Sall, IR73:Aug 73:179

Necking

Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428

Needle Valves

Needle Valves as Pressure Regulators, J. Paul Tullis and Maurice L. Albertson, HY5:Sept 69:1633:6787

Negative Friction

Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941

Reducing Negative Friction with Bitumen Slip Layers, Alphonsus I. M. Claessen and Endre Horvat, GT8:Aug 74:925:10764

Neighborhoods

Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032

Nematodes

Removal of Nematodes by Rapid Sand Filtration, Irvine Wen-Tung Wei, Richard S. Engelbrecht and John H. Austin, SA1:Feb 69:1:6384

Netherlands

Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66

Experiences with Tidal Salinity Model Europoort, A. J. van Rees, P. van der Kuur and H. J. Stroband, CE13:72:III-2345

Gas Release During Transient Cavitation in Pipes, C. Kranenburg, HY10:Oct 74:1383:10892

The History of the Dutch Coast in the Last Century, W. T. Bakker and D. Sj. Joustra, 12CEC:71:709

The Measurement of Tidal Water Transport in Channels, R. E. Klein, 12CEC:71:1887

Research for the Coastal Area of the Delta Region of the Netherlands, J. J. Dronkers, 12CEC:71:1783
Use of Asphalt in Breakwater Construction, K. d'Angremond, H. J. Th. Span, J. van der Weide and A. J. Woestenenk, 12CEC:71:1601
Wave Conditions and Coastal Structures, W. P.A. Broeders and G. van Loenen, WAVES:Sept 74:543
Wave Gages in Coastal Areas, J. J. Pilon, WAVES: Sept 74:585
Wind and Wave Climate Study in the North Sea, P. Kruseman, WAVES:Sept 74:1

Network Analysis
Full Compensation and Transportation Corridor Analysis, Joseph R. Passonneau, TE2:May 73:393: 9746
Hydraulic Network Analysis Using Linear Theory, Don J. Wood and Carl O.A. Charles, HY7:July 72: 1157:9031
Network Analysis and Construction Planning, Shlomo Peer, CO3:Sept 74:203:10792
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73: 81:9832

Network Analysis (Management)
Book Review: Precedence Networks For Project Planning And Control, John A. Cunningham, CE: Dec 73:24
CPM Use in Top 400 Construction Firms, Edward W. Davis, CO1:Mar 74:39:10395
Rate of Work Method: Simplified Project Control, John A. Cunningham and Edward P. Yarmowich, CE:Nov 73:62

Network Flows
Digital Program for Water Network Analysis, Roger P. Donachie, HY3:Mar 74:393:10424

Networks
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742
Least Cost Design of Branched Pipe Network System, Arun K. Deb, EE4:Aug 74:821:10711
Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275: 9204
Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472
Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032
Optimization in Design of Hydraulic Network, Arun K. Deb and Asok K. Sarkar, SA2:Apr 71:141:8032
Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830
Reliability of Electric Power Supplies, Thorton A. Phillips, EPCE:Aug 74:7
Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
Tall Buildings Elastically Coupled, Ramiro Sofronie, TB:73:Ia-3-637
User-Optimized Traffic Assignment, Frank J. Hatfield, TE2:May 74:313:10519

Nevada
Design of Underground Pumping Chamber at Lake Mead, Robert R. Rising and Gayle A. Ericson, URC:72:381
Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969

New England
Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867
Northeast Corridor Transportation Project: Structure and Operations of Model System, Paul W. Shuldiner, TE4:Nov 70:445:7651

New Hampshire
Hampshire Plaza, Welton Becket and Associates, TB:73:C-P-342
Performance of Embankments with Sand Drains on Sensitive Clay, Charles C. Ladd, Joseph J. Rixner and Douglas G. Gifford, PES:72:I-211

New Jersey
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Concrete Median Barrier Safely Redirects Impacting Vehicles, Edwin C. Lokken, CE:Oct 71:77
Environmental Impact of the New Jersey Turnpike Toms River Extension, John C. Goodrich and Byron H. Willis, UT73:May 73:253
Gateway National Recreation Area, Jane A. Henzi, CEWAU:74:69
How A Construction Industry Organization Provides Educational Opportunities, Maynard Charles Nugent, CEE:Feb 74:1-865
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
Mount Hope Project — Studies of an Underground Site for Developing Peaking Capacity, Robert C. Richert, EPCE:Aug 74:265
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
People Considerations at Newark Airport, John P. Veerling, MTI:May 72:243
Sand Compaction by Vibroflotation at Cape May, New Jersey, Robert J. Westberg and Herbert O. Ireland, PES:72:I-1037
Setting the Stage for a Tour of the Lindenwold Hi-speed Line, J. William Vigrass, NA:Mar 71:193
Urban Transportation - A Persistent Paradox, John C. Kohl, NA:Mar 71:61

New Mexico
Cement Stabilized Fill for Conduit Support, Richard B. Catanach and Thomas N. McDaniel, TN: SM6: June 71:959:8162
Economic Impact of the Conversion of Water from Irrigation to Municipal and Industrial Use in the Rio Grande Basin of New Mexico, Edwin A. Lewis, IR73:Aug 73:67
Weed Control in Arid Southwest, James W. Kirby and A. Darrell Summers, IR4:Dec 71:571:8570

Newton-Raphson Method
Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, Chan F. Lam and M. L. Wolla, HY3:Mar 72:447:8782
Digital Program for Water Network Analysis, Roger P. Donachie, HY3:Mar 74:393:10424
Nonlinear Analysis of Pin-Jointed Space Trusses, Marcelo Epstein and Yair Tene, ST9:Sept 71:2189: 8357
Nonlinear Analysis of Space Trusses, Ahmed K. Noor, ST3:Mar 74:533:10419
Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321

New York
Dsc, Academic foreclosure, James Michalos, CE:July 72:74
Architects and Planners — Introduction, M. D. Morris, CEWAU:74:209
Brooklyn Bridge -- Introduction, M. D. Morris, CEWAU:74:25
Brooklyn Bridge Superstructure -- 1876-1973 and Beyond, Carl H. Gronquist and Blair Birdsall, CEWAU:74:52
Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175
Clinton Square, Welton Becket and Associates, TB: 73:C-P-338
Commentary, Irving Scheinbart, CEWAU:74:221
Commentary, Gerald Palevsky, CEWAU:74:259
Construction of the Foundations and Towers of the Brooklyn Bridge, George F. Flay, Jr., CEWAU:74: 36

Construction Over Water—Fill or Piles?, Jacob Feld and Robert C. Johnston, CE:Aug 74:54
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
Finland House, Kahn & Jacobs, TB:73:C-P-350
Fulton Arcade (A Pedestrian/Transitway in Downtown Brooklyn), Richard M. Rosan, BP73: Dec 73:80
Gateway National Recreation Area, Jane A. Henzi, CEWAU:74:69
Geotechnical Properties of Hudson River Silts, Surendra K. Saxena and Timothy P. Smirnoff, TN: SM10:Oct 73:912:10042
Getting the Job Done, Carl Berkowitz and Richard Cohen, BP73:Dec 73:282
Jamaica Bay Hurricane Barrier, Frank L. Panuzio, 12CEC:71:2069
Landmark New York Cases on the Question of Liability of the State in Withholding Subsurface Information, Thomas B. Treacy, CEWAU:74:195
Legal Problems in Water Pollution Control, Dwight F. Metzler, HY1:Jan 74:221:10260
Local Legislation and Its Impact on Transportation, Fred C. Hart, UT73:May 73:63
McGraw-Hill, Harrison & Abramovitz, TB:73:C-P-430
Medal of Honor for City Planning -- Introduction, M. D. Morris, CEWAU:74:65
The Metropolis Runs Dry, Richard A. Hogarty, SEA: 70:329
The Metropolis Runs Dry, Richard A. Hogarty, IR4: Dec 71:559:8563
Multilake River System Operation Rules, Chin-shu Liu and Allan C. Tedrow, HY9:Sept 73:1369:10021
A National Landmark, Robert E. White, CEWAU: 74:32
New Pier in Jamaica Bay, Remig A. Papp, CE:Aug 72:52
New York City Convention and Exhibition Center, Thomas F. Galvin, CEWAU:74:211
New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60
New York City Hall, Alfred C. Maevis, CEWAU:74: 33
New York City Wastewater System Management, Martin Lang, CWFE:Mar 71:53
New York State Spurs Housing, Kneeland A. Godfrey, Jr., CE:Nov 71:53
Norwood Dam Foundation Stabilization: A Case History, John C. Matte, IMROD:Sept 73:697
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
One Astor Plaza, Kahn & Jacobs, TB:73:C-P-348
Oxygen Depletion Model for Cayuga Lake, J. Denis Newbold and James A. Liggett, EE1:Feb 74:41: 10346
The Pressure Sewer: A New Alternative to Gravity Sewers, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, CE:May 74:50
Pressure Sewer Demonstration, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, EE1:Feb 74:25: 10315
River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
School Trip Safety and Urban Play Areas - A Study of the Young Pedestrian, Martin L. Reiss, BP73: Dec 73:96
Standard Oil of N.J., Harrison & Abramovitz, TB: 73:C-P-431
Stars in the Water-The Story of the Erie Canal (Book Review-J. W. Briscoe), George E. Condon, CE:Oct 74:32
Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
Transport Equation Stability and Estuary Modeling, Fred G. Haag and Keith W. Bedford, HY12:Dec 71:2051:8610
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807
Westchester County Courthouse, Welton Becket and Associates, TB:73:C-P-302
William Fitts Ryan Award Citation, Thomas J. Colston, CEWAU:74:67
Dsc, World Trade Center, John O. Bickel, CE:Oct 71:90
The Yankee Stadium, Alfred C. Maevis, CEWAU:74: 86

New Zealand
Book Review: Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, Richard W. Bletzacker, CE:June 73:34

Nicaragua
Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397
Managua Earthquake: Lessons Learned, Hudson W. Smith, CE:Sept 74:102
Quake Lesson from Managua: Revise Concrete Building Design, Mark Fintel, CE:Aug 73:60

Nigeria
Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562

Nitrates
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153

Nitrification
Control of Bacterial Growths in Rapid Sand Filters, John T. O'Connor and Kalyanpur Y. Baliga, SA6: Dec 70:1377:7767
Nitrification Rate in Biological Processes, Ching-San Huang and Ninnian E. Hopson, EE2:Apr 74:409: 10462

Nitrogen
Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5: Oct 73:639:10043
Gas Supersaturation Problem in the Columbia River, Peter B. Boyer, IRS:Sept 72:205
Nitrogen Transformation in Activated Sludge Treatment, Jerzy Ganczarczyk, SA3:June 71:247: 8163
Nutrients And Aquatic Vegetation Effects, G. Wolfgang Fuhs, EE2:Apr 74:269:10453
Simulation of Ammonia Stripping from Wastewater, Joseph F. Roesler, Robert Smith and Richard G. Eilers, SA3:June 71:269:8182

Nitrogen Compounds
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73: 923:10200

Nitrogen Cycle
Ammonia Nitrogen Losses from Streams, Frank E. Stratton, SA6:Dec 68:1085:6282
Chemistry of N and Mn in Cox Hollow Lake, Wis., Following Destratification, Patrick L. Brezonik, Joseph J. Delfino and G. Fred Lee, SA5:Oct 69: 929:6850
Nitrogen Losses from Alkaline Water Impoundments, Frank E. Stratton, SA2:Apr 69:223:6495

Nitrogen Fixation
Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5: Oct 73:639:10043

Nitrogen Oxides
Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469
NO_x Emmissions from Stationary Combustion Sources, by The Committee on Atmospheric Pollution of the Environmental Engineering Division, James J. Stukel, Chmn., EE3:June 74:641: 10581

Noise

Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
California Tackles Highway Noise, James D. Collins, CE:Nov 73:56
Computer Model for Highway Noise Prediction, Kenneth E. Nelson and Joseph L. Schofer, TE2: May 74:325:10517
Construction Noise-Its Origin and Effects, Alan S. Hersh, CO3:Sept 74:433:10827
Effects and Control of Highway Traffic Noise, James E. Shahan and George W. Kamperman, TE2:May 73:307:9726
Energy Conservation, Noise, and Vibration Control in Construction of Floating Offshore Power Plants, James A. O'Kon, TN: CO2:June 74:195:10570
Highway Noise and Acoustical Buffer Zones, Asadullah Zulfacar and C. Scott Clark, TE2:May 74:389:10520
Kinematic Sound Screen: Unique Solution to Highway Noise Abatement, John B. Hauskins, TE1: Feb 74:169:10353
Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382
Noise Control and Civil Engineering, Edward M. Krokosky and Clive L. Dym, CE:May 74:45
The Relationship Between Highway Planning and Urban Noise, C. Michael Hogan and Gary L. Latshaw, UT73:May 73:109
Systems Analyst's View of Noise and Urban Planning, Martin Wachs and Joseph L. Schofer, UP2:Oct 70:147:7639

Noise (Sound)

Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202

Noise Generators

Systems Analyst's View of Noise and Urban Planning, Martin Wachs and Joseph L. Schofer, UP2:Oct 70:147:7639

Noise Masking

Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74

Noise Reduction

Airports -- Challenges of the Future, Raymond J. Hodge, Chmn., ASC73:73, 213pp.
California Tackles Highway Noise, James D. Collins, CE:Nov 73:56
Community Values in Transport Network Evaluation, Dan G. Hancy and George E. Klein, TE4:Nov 72: 823:9319
Construction Noise-Its Origin and Effects, Alan S. Hersh, CO3:Sept 74:433:10827
Energy Conservation, Noise, and Vibration Control in Construction of Floating Offshore Power Plants, James A. O'Kon, TN: CO2:June 74:195:10570
Engineering Guidelines for Highway Noise Shield Design, J. Kenneth Manhart, TE4:Nov 74:909: 10926
Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
Hannover Regional Complex Including Airport, Heinz P. Piper, TE2:May 69:245:6534
Highway Noise and Acoustical Buffer Zones, Asadullah Zulfacar and C. Scott Clark, TE2:May 74:389:10520
Kinematic Sound Screen: Unique Solution to Highway Noise Abatement, John B. Hauskins, TE1: Feb 74:169:10353
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
Local Legislation and Its Impact on Transportation, Fred C. Hart, UT73:May 73:63
Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382
Noise Control and Civil Engineering, Edward M. Krokosky and Clive L. Dym, CE:May 74:45
Noise Control at Construction Sites, Herbert G. Poertner, ECCD:72:375
Noise Control in Urban Planning, Clifford R. Bragdon, UP1:Mar 73:15:9590
Projections of the U.S. Airline Fleet in the Early 1980's, Robert Horonjeff and Richard Coykendall, ASC73:Mar 73:1
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
The Relationship Between Highway Planning and Urban Noise, C. Michael Hogan and Gary L. Latshaw, UT73:May 73:109
Session III-Control of Pollution in Concrete Dam Construction, Dwight L. Glasscock, ECCD:72:391
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56
Why Regional Airports, Jack D. Downey, ASC73: Mar 73:153

Nomographs

Dynamic Driving Stresses in Prestressed Concrete Piles, Arthur R. Anderson and Saad E. Moustafa, CE:Aug 71:55
Graphical Solution to Hydraulic Jump, Roland W. Jeppson, HY1:Jan 70:103:7014
Dsc, Inspector vs. Quality Engineer, John P. Jackson, CE:Oct 70:52
Lateral Load Capacity of Piles in Sand and Normally Consolidated Clay, Awtar Singh, Richard E-Wei Hu and Robert D. Cousineau, CE:Aug 71:52
Nomograph for Bearing Capacity, J. Neil Kay, TN: SM1:Jan 71:301:7787
Nomographs For Some Cumulative Frequency Distributions, Frederic T. Mavis, TN: HY10:Oct 70:2177:7575
Nondimensional Gradually Varied Flow Profiles, Cheng-lung Chen and Chun-Tsung Wang, HY5: Sept 69:1671:6790
Nonuniform Flow in Flat Rectangular Channels, Kuan M. Yao, HY9:Sept 71:1343:8369
Rapid Determination of Evenly Distributed Load Effects, Edward L. Rushbrook, Jr., CE:Oct 70:52
Solution of Steady Flow in Open Channels by Graphs, Horace A. Johnson, CE:Dec 70:46

Noncohesive Soils

Material Model for Granular Soils, Frank L. DiMaggio and Ivan S. Sandler, EM3:June 71:935: 8212

Nondestructive Tests

Acoustic Emissions In Medium Plasticity Clayey Silt, Robert M. Koerner and A. E. Lord, TN: SM1:Jan 72:161:8618
Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623
Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851

Nonlinear Algebraic Equations

Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089

Nonlinear Differential Equations

Buckling of Open Cylindrical Shells with Imperfections, Peter Turula and Kuang-Han Chu, EM6:Dec 70:1125:7733
Computational Schemes for the Boussinesq Equation, George Terzidis, IR4:Dec 68:381:6276
Convergence in Highly Nonlinear Cable Net Problems, Anil K. Kar and Clyde Okazaki, ST3: Mar 73:321:9601
Non-Linear Analysis and Limit Design, Summary Report, Herbert A. Sawyer, TB:73:III-22-483
Nonlinear Analysis of Cable and Truss Structures, Frank Baron and Mahadeva S. Venkatesan, ST2: Feb 71:679:7937
Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428

Nonlinear Formulations of Beam-Column Effects, Frank Baron and Mahadeva S. Venkatesan, ST4:Apr 71:1305:8080
Post Lateral Buckling Behavior of Beams, Gerald Zamost and E. Russell Johnston, Jr., EM4:Aug 71:1133:8313
Subsurfqce Drainage Solutions by Galerkin's Method, Purushottam Dass and Hubert J. Morel-Seytoux, IR1:Mar 74:1:10397

Nonlinear Programming
Automated Design Of Statically Indeterminate Frames, Dag Kavlie and Johannes Moe, EC5:70:27
Elastic Analysis With Indeterminate Boundary Conditions, Antone F. Sayegh, EM1:Feb 74:49:10357
Optimum Design of Truss Structures For Ultimate Loads, William S. LaPay and George G. Goble, EC5:70:223
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541:9864

Nonlinear Systems
Analysis of Nonlinear Random Wave Problems, Visvaldas J. Grauzinis, WAVES:Sept 74:74
Effect of Curvature on Nonlinear Frame Analyses, Mike E. James, Jr., Thomas J. Kozik and Jose E. Martinez, ST7:July 74:1451:10681
Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467
Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231
Geometric Nonlinearity in Nonprismatic Members, Cenap Oran, ST7:July 74:1473:10679
Large Displacement Analysis of Thin Plates, James Colville, Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373
The Moored Ship as an Oscillating System - The Non-linear Problem, Antonio G. Portela, BMS:71:67
Non-Linear Analysis and Limit Design, Theme Report, Giorgio Macchi, TB:73:III-22-333
Nonlinear Analysis of Space Trusses, Ahmed K. Noor, ST3:Mar 74:533:10419
Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983
Nonlinear Dynamics of Cables with Low Initial Tension, John W. Leonard, EM2:Apr 72:293:8805
Nonlinear Elastic Truss Analysis Partitioning, N. M. Singaraj and Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Nonlinear Pore Pressure Equation, Jerru C.F. Chen, TN: SM6:June 72:649:8933
Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333
Nonlinear Wave Forces on Halfcylinder and Hemisphere, Subrata K. Chakrabarti and Robert A. Naftzger, WW3:Aug 74:189:10710
Simple Nonlinear Model for Flood Estimation, Russell G. Mein, Eric M. Laurenson and Thomas A. McMahon, HY11:Nov 74:1507:10933
Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564
Transverse Beam Vibration Nonlinear Constraint, Mohammed Ali Dokainish and Rajnish Kumar, EM6:Dec 72:1381:9431
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Non-Newtonian Fluids
Turbulent Flow of Non-Newtonian Suspensions in Pipes, V. R. Krishna Murthy and Iraj Zandi, EM1:Feb 69:271:6427

Non-Structural Alternatives
Computers in Flood Control Planning, L. Douglas James, HY6:Nov 69:1859:6886

Nonuniform Flow
Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841
Drag Coefficients in Nonsteady Turbulent Flow, Alex J. Sutherland and David J. Painter, HY7:July 71:1031:8233
Energy Loss Analysis for Open Channel Expansions, Gaylord V. Skogerboe, HY10:Oct 71:1719:8464
Nonuniform Flow in Flat Rectangular Channels, Kuan M. Yao, HY9:Sept 71:1343:8369
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107

North Carolina
Bachelor of Civil Engineering Technology at the University of North Carolina at Charlotte, Richard R. Phelps, CEE:Feb 74:1-254
Construction Education at North Carolina State, George H. Blessis, CEE:Feb 74:1-613
Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
Recent History of Erosion at Carolina Beach, N. C., Limberios Vallianos, 12CEC:71:1223
Stochastic Analysis of Beach Profile Data, Choule J. Sonu and Myron H. Young, 12CEC:71:1341
Synthetic Through Trip Patterns, David G. Modlin, Jr., TE2:May 74:363:10526
The Urban and Environmental Engineering Program at the University of North Carolina at Charlotte, Jack B. Evett, CEE:Feb 74:1-90

North Dakota
Drainage Analysis of a Confining Formation, Leo C. Benz and Eugene J. Doering, IR73:Aug 73:225

Norway
Concrete Oil Storage Tank to Rest in North Sea, Ben C. Gerwick, Jr. and Eivind Hognestad, CE:Aug 73:81
Norwegian Wave Climate Study, O. G. Houmb, B. Pedersen and P. Steinbakke, WAVES:Sept 74:25

Nose Wheels
Determination of Wheel Trajectories, Ezra Hauer, TE4:Nov 70:463:7653

Nozzle Flow
Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73:589

Nozzles
Surface Disturbance from Submerged Jet, Norbert L. Ackermann, Rafael T. Apostol and Suvit Siriyong, HY7:July 71:937:8236

Nuclear Electric Power Generation
Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709
Conventionally Reinforced Nuclear Containments, Clarence T Gordon and William L Klehm, ST2:Feb 70:199:7065
Design of Browns Ferry Chimney, John W. Smith and Asgeir Jonsson, PO3:June 70:437:7359
Design of Fish Conserving Intake System, Dallas I. Downs and Kenneth R. Meddock, PO2:Dec 74:191:11008
Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673
Earthquake Forces on Equipment in Nuclear Power Plants, Asadour H. Hadjian, PO3:July 71:649:8240
Earthquake Research Needs For Nuclear Power Plants, George W. Housner, PO1:Jan 71:77:7818

Earthquake Time Histories and Response Spectra, Robert H. Scanlan and Klaus Sachs, EM4:Aug 74: 635:10703

Effect of Stream Turbulence on Heated Water Plumes, James Weil and Hugo B. Fischer, HY7:July 74:951:10674

Engineering For People, Richard R. Harbert, PP3: July 72:387:9058

An Evaluation of Undersea Nuclear Reactor Power Systems, Walter H. D'Ardenne, CEO-II:70:315

Foundations for Salem Nuclear Generating Station, Muzaffer Kehnemuyi, CE:May 70:52

Grouted Tendons for Nuclear Containment, Gunnar A. Harstead and Richard E. Kummerle, PO2:Oct 69:277:6852

Hutchinson Island Nuclear Containment Structure, Ronald G. Moreland and Richard L. Bentley, PO1: May 73:041:9714

Intake System Assessment for Central Columbia River, David L. Schreiber, C. Dale Becker, James J. Fuquay and Ronald A. Chitwood, PO2:Dec 74:139: 11001

Multibarrier Containment for Nuclear Power Plants, Alexander C. Koehler, Delbert M. Leppke and Roy W. Corcoran, PO2:Oct 69:203:6829

Nuclear Containment Mat Design Concepts, King-Yuen Chu and Alan A. Broussard, PO1:July 74:85: 10654

Optimization of Circulating Water System, R. S. Gupta and Bruce R. Webber, PO1:May 73:235: 9756

Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440

Plastic Liners for CANDU Containment Structures, E. C. Smith, ST10:Oct 71:2583:8435

Post-Tensioned Concrete Nuclear Structures, Glen A. Chauvin, Robert J. Small and Adolf Walser, PO3: June 70:400:7355

Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231

Prestressing For H.B. Robinson Nuclear Plant, Allan H. Wern, Morris Schupack and W. Larson, PO2: Mar 71:539:7992

Prestress System for Nuclear Concrete Containment Domes, King-Yuen Chu, PO1:July 74:111:10687

Public Health Factors in Reactor Site Selection, J. G. Terrill, C. L. Weaver, E. D. Harward and J. M. Smith, SA3:June 69:545:6620

Social Concerns—Nuclear Offshore River Basin Construction, Harlan W. Fair, CO1:Mar 74:51: 10417

Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Test Method for Seismic Qualification of Equipment, Michael de Estrada, PO1:July 74:97:10656

Nuclear Energy

Environmental Protection for Nuclear Applications, Dade W. Moeller and Abraham S. Goldin, SA3: June 69:373:6589

Transport of Dissolved Wastes in Rivers, Roger Don Shull and Earnest F. Gloyna, SA6:Dec 69:995:6948

Nuclear Explosion Effects

Analysis of Tunnel Liner-Packing Systems, William P. Dawkins, EM3:June 69:679:6622

Radar Building Can Withstand Nuclear Attack, Edward Cohen and Edward B. Laing, CE:Oct 73:46

Nuclear Explosions

Elastic Free-Field Motion Due to Nuclear Blast, Leif E. Fugelso, Robert K. Waddick and Glen L. Heidhardt, EM6:Dec 68:1337:6266

Environmental Protection for Nuclear Applications, Dade W. Moeller and Abraham S. Goldin, SA3: June 69:373:6589

Nuclear Excavation of an Elat-Dead Sea Waterway, Aviva E. Gileadi and Wilson K. Talley, WW3:Aug 69:329:6730

Photogrammetric Mapping of Craters from Small Explosions, George C. Love and Luke J. Vortman, SU1:Oct 69:125:6857

Shock Spectra From Subsurface Nuclear Explosions, Frank W. Galbraith and Robert N. Schreiner, EM5: Oct 68:1015:6140

Simulation of Waves by an Underwater Explosion, Jan Malan Jordaan, Jr., WW3:Aug 69:355:6745

Nuclear Power Plants

Analysis and Design of Nuclear Power Plant Structures, Peter K. Ho and Milomir Stoykovich, SDNPF:Dec 73:365

Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291

Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375

Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115

Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89

Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77

Comparative Study of Soil Spring and Finite Element Models for Seismic Soil-Structure Interaction Analysis of Nuclear Power Plants, P. K. Agrawal, Shih-Lung Chu and Hemant H. Shah, SDNPF:Dec 73:63

Construction Of Multibarrier Containment Vessels, Delbert M. Leppke, C. Alexander and Robert S. Webb, CO1:Mar 71:53:8002

Containment Structure For Trojan Nuclear Plant, Jacob K. Aldersebaes and Karl Wiedner, PO2:Mar 71:351:7957

Cooling Water Structures for FitzPatrick Nuclear Plant, Ralph W. Gunwaldsen, Bruno Brodfeld and George E. Hecker, PO4:Dec 71:767:8572

A Counter-Perspective on Pollution Problems, Jimmie L. Thomas, CE:Aug 74:80

Design of Containment Base Mats, Anil K. Kar, SDNPF:Dec 73:323

Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177

Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173

Deterministic and Probabilistic Design Wave Approach to Engineering Application, Ronald M. Noble and Richard B. Dornhelm, WAVES:Sept 74: 856

Development of a Plastic Strain Energy Absorbing Pipe Whip Restraint Design, Gene A. Esswein, SDNPF:Dec 73:171

Development of Response Spectra for a Thin Shell Structure, D. R. Denton, Chung-Tung Shen and C. K. Webster, SDNPF:Dec 73:571

Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, R. P. Kassawara and D. A. Peck, SDNPF:Dec 73:73

Earthquake Engineering for Nuclear Power Plants, Roland L. Sharpe, CE:Mar 69:39

Effects of Parameter Variations on Floor Response Spectra, L. K. Liu, C. L. Child and B. Nowotny, SDNPF:Dec 73:435

First Prestressed Containment Vessel in a U.S. Commercial Nuclear Power Plant, Don K. Croneberger, CE:July 69:52

Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219

Foundation Design of the Waterford Nuclear Plant, Joseph L. Ehasz, Jr. and E. Radin, SDNPF:Dec 73: 83

A General Study of Tornado Generated Missiles, A. J.H. Lee, SDNPF:Dec 73:515

Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29

Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299

Influence of Closely Spaced Modes in Response Spectrum Method of Analysis, A. K. Singh, Shih-Lung Chu and Surendra Singh, SDNPF:Dec 73:479

Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72: 273:9242

A New Approach to Soil-Structure Interaction Problems, Achyut V. Setlur, Jagannath K. Khanna and M. Valathur, SDNPF:Dec 73:139

Nuclear Power Plant Siting on Deep Alluvium, Ronald F. Scott and Jack J. Schoustra, GT4:Apr 74:449:10497

On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF: Aug 72:371

Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andrew Morcos and Shih-Lung Chu, SDNPF:Dec 73:263

Seismic Analysis and Design of the San Onofre Nuclear Generating Station, Units 2 and 3 Containment, Jay W. Wiley, Jr., Kenneth M. Schechter, Don L. Price and P. W. Koss, EPCE: Aug 74:13

Seismic Design and Analysis of Nuclear Plant Components, Milomir Stoykovich, SDNPF:Dec 73: 1

Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142

Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73: 281:10164

Seismic Resistant Design of Safety Class Structures and Equipment, Chang Chen, SDNPF:Dec 73:459

Selection of Design Basis Tornado, M. A. Suarez, SDNPF:Dec 73:597

A Simplified Approach to Compute Natural Frequencies of Vertical Tanks and Heat Exchangers with Skirt Supports, Chi-Wen Lin, SDNPF:Dec 73: 35

Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140

Site Related Design Considerations for Standardized Nuclear Power Plant Design, Edward A. Sweeney, SDNPF:Dec 73:415

Siting of Browns Ferry Nuclear Plant, Jack E. Gilleland, PO2:Oct 69:185:6827

Soil Structure Interaction Problems for Nuclear Containment Structures, E. Kausel and Jose M. Roesset, EPCE:Aug 74:469

Statistical Safety Factor Concept for Determining the Probable Maximum Flood, Boris S. Browzin, SDNPF:Dec 73:557

Steam Jet Force Decay, R. H. Greenwood, SDNPF: Dec 73:591

Structural Analysis and Design of Pipe Whip Restraints, Frederick L. Moreadith, Garry J. Patterson, C. R. Angstadt and James F. Glova, SDNPF:Dec 73:201

Structural Design of Fukushima No. 6 and Tokai No. 2 Nuclear Power Plants, Hsiang-Sheng Chang, SDNPF:Dec 73:391

Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343

Structure-Foundation Interaction of Nuclear Power Plant Structure During Earthquakes, R. Joe Hunt, SDNPF:Dec 73:119

Thermal Discharges From Large Nuclear Plant, Stanley Moyer and Edward C. Raney, SA6:Dec 69: 1131:6983

Thermal power plants: Key problems, trends, Eugene E. Dallaire, CE:Dec 74:35

Three Dimensional Soil-Structure Seismic Analysis Using Finite Elements, Surendra Singh, Ramachandran Srinivasan, P. K. Agrawal and Shih-Lung Chu, SDNPF:Dec 73:43

Tidal Energy from the Bay of Fundy, Thomas L. Shaw and J. van den Heuvel, CE:Dec 72:40

Tornado Generated Missiles, James R. McDonald, Joseph E. Minor and Kishor C. Mehta, SDNPF: Dec 73:543

Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425

Nuclear Reactor Containment

Concrete Containments for Reactors-State-of-Art, Chen Pang Tan, ST7:July 70:1543:7424

Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125: 9697

Grouted Tendons for Nuclear Containment, Gunnar A. Harstead and Richard E. Kummerle, PO2:Oct 69:277:6852

Hutchinson Island Nuclear Containment Structure, Ronald G. Moreland and Richard L. Bentley, PO1: May 73:041:9714

PWR Containment Structures Design Experience, P. Blair Haga and John D. Stevenson, PO1:Jan 70: 145:7037

Testing Of Large Curved Prestressing Tendons, Gunnar A. Harstead, Richard E. Kummerle, John C. Archer and Mark M. Porat, PO2:Mar 71:475: 7966

Nuclear Reactor Engineering

An Evaluation of Undersea Nuclear Reactor Power Systems, Walter H. D'Ardenne, CEO-II:70:315

Nuclear Reactors

Fracture and Stress-Strain Relationship of Concrete Under Triaxial Compression, Ranga Palaniswamy and Surendra P. Shah, ST5:May 74:901:10547

Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72: 273:9242

Public Health Factors in Reactor Site Selection, J. G. Terrill, C. L. Weaver, E. D. Harward and J. M. Smith, SA3:June 69:545:6620

Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343

Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Time History Dynamic Analysis of Pressurizer Discharge Piping System, F. L. Cho and Y. A. Patel, SDNPF:Dec 73:343

Nuclear Reactor Sites

An Evaluation of Undersea Nuclear Reactor Power Systems, Walter H. D'Ardenne, CEO-II:70:315

Siting of Browns Ferry Nuclear Plant, Jack E. Gilleland, PO2:Oct 69:185:6827

Numerical Analysis

Analysis of Footing Subjected to Biaxial Bendine, German R. Gurfinkel, ST6:June 70:1049:7329

Analysis of Infiltration into Draining Porous Media, Frank D. Whisler and Keith K. Watson, IR4:Dec 69:481:6946

Analysis of Orthotropic Steel Plate Bridge Decks, Graham H. Powell and David W. Ogden, ST5:May 69:909:6563

Buckling of Inelastic Tapered Pin-Ended Columns, Franklin J. Appl and James O. Smith, EM2:Apr 68: 549:5897

Comparison of Four Numerical Methods for Flood Routing, Roland K. Price, HY7:July 74:879:10659

Computational Schemes for the Boussinesq Equation, George Terzidis, IR4:Dec 68:381:6276

Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652

Displacements and Losses in Multistage Prestressed Members, Amin Ghali, Romy G. Sisodiya and Gamil S. Tadros, ST11:Nov 74:2307:10968

Effect of Seepage Stream on Artificial Soil Freezing, Hadi T. Hashemi and Cedomir M. Sliepcevich, SM3:Mar 73:267:9630

Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72: 47:8717

Elastic Stability of Cylindrical Shells Under External Pressure, Cary K.K. Mak, Luis E. Amaya and Harry C. Saxe, CEO-II:70:535

Elastic Waves in Half-Space with Thin Barrier, Jacob Aboudi, EM1:Feb 73:69:9536

Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467

Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806

Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261

Interaction Stresses in Composite Systems, Mohammad A. Iqbal and Edward M. Krokosky, EM6:Dec 70:825:7738

Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819

Irregular Shaped Plates with Singularities, David H. Geiger, EM5:Oct 71:1533:8458

Lateral Stability of Nonuniform Cantilevers, Campbell Massey and Peter J. McGuire, EM3:June 71:673:8172

A Method of Numerical Analysis of Wave Propagation -- Application to Wave Diffraction and Refraction, Yoshiyuki Ito and Katsutoshi Tanimoto, CE13:72:I-503

New Procedure for Numerical Relative Orientation, Santosh K. Mahajan, SU2:Nov 74:155:10962

Numerical Approximation For Reliability Analysis, Niels C. Lind, TN: ST3:Mar 72:797:8755

Numerical Methods of Investigation into Stratified Flows, B. I. Sokolov, ISSF:Aug 72:659

A Numerical Model for the Hydrodynamics of Lagoons, Jacobus van de Kreeke, CE13:72:III-2241

Numerical Modeling of Constituent Transport in Bay Systems, Robert G. Dean and R. B. Taylor, CE13:72:III-2227

Numerical Modeling Of Hydromechanics Of Bay Systems, Akhileshwar P. Verma and Robert G. Dean, CEO-II:70:1069

A Numerical Model of Estuarine Pollutant Transport, Hugo B. Fischer, CE13:72:III-2255

Numerical Model of St. Lawrence River Estuary, David Prandle and Norman L. Crookshank, HY4:Apr 74:517:10472

A Numerical Model of the St. Lawrence River, David Prandle, CE13:72:III-2281

Numerical Solution of Filtration Equations, Arun K. Deb, SA2:Apr 70:195:7199

Post-Local-Buckling Behavior of Continuous Beams, Shien T. Wang and Sheng S. Yeh, ST6:June 74:1169:10595

Random Walk Model for First-Passage Probability, Richard H. Toland and Cheng Y. Yang, EM3:June 71:791:8200

Seepage from Recharge and Landfill Ditches, Paul A. Witherspoon and T. N. Narasimhan, IR73:Aug 73:39

Simulation Accuracies of Gradually Varied Flow, J. Peter Jolly and Vujica Yevjevich, HY7:July 74:1011:10677

Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056

Solution of Linear Equations--State-of-the-Art, Christian Meyer, ST7:July 73:1507:9861

Stress Distribution Around Shell Openings, A. Ziya Aktas, ST11:Nov 70:2337:7693

Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141:8738

Torsion of Nonprismatic Beams of Open Section, Donald R. Evick and Conrad P. Heins, Jr., ST12:Dec 72:2769:9453

Numerical Integration

Response Computation Using Truncated Taylor Series, Joseph E. Grant, EM2:Apr 71:295:8019

Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72:1087:9260

Nutrients

Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406

Biological Effects on Sediment-Water Nutrient Interchange, Donald B. Porcella, James S. Kumagai and E. Joe Middlebrooks, SA4:Aug 70:911:7460

Drainage and Pollution from Beef Cattle Feedlots, Raymond C. Loehr, SA6:Dec 70:1295:7726

Nitrogen Transformation in Activated Sludge Treatment, Jerzy Ganczarczyk, SA3:June 71:247:8163

Preliminary Model of Potomac Estuary Phytoplankton, Robert V. Thomann, Dominic M. Di Toro and Donald J. O'Connor, EE3:June 74:699:10576

Tertiary Treatment by Flocculation and Filtration, DeFro Tossey, Paul J. Fleming and Ronald F. Scott, SA1:Feb 70:75:7106

The Watershed Approach for Fish and Wildlife, L. Dean Marriage, IAWM:72:369

Nutrition

Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293

Oak Wood

Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73:1205:9788

Obituaries of Members

See Name of Deceased Member in Name Index

Objectives

Evaluating Regional Plans and Community Impacts, Joseph L. Schofer and Darwin G. Stuart, UP1:Mar 74:93:10412

Some Thoughts on Urban Transportation Goals and Objectives, Milton Pikarsky, NA:Mar 71:25

Urban Water Resources—Some Planning Fundamentals, Lawrence S. Costello, UP1:Mar 74:57:10413

Observation

Full Scale Observation of the Behavior of Moored Ships, Basil W. Wilson, BMS:71:117

Precision of Adjusted Variables by Least Squares, Mohamed F. Madkour, SU2:Sept 68:119:6096

Occurrence

Saltwater Intrusion in the United States, C. B. Sherwood, HY5:Sept 69:1651:6788

Ocean Basins

Mineral Scavenging and Marine Pollution, Richard G. Bader, CEO-II:70:1

Ocean Bottom

Accelerometer-Monitored Coring, William L. Preslan, CEO-II:70:655

Breakout Resistance of Objects Embedded In Ocean Bottom, Aleksandar Sedmak Vesic, CEO-II:70:137

Carbonate Cementation in Deep-Ocean Sediments, William E. Kelly, Vito A. Nacci, Mian C. Wang and Kenneth R. Demars, TN: GT3:Mar 74:383:10420

Design And Construction Of The Makai Range Habitat, W. E. Bliss, Jr., CEO-II:70:369

Engineering Aspects Of A Movable Surveillance System, Richard C. Swenson, CEO-II:70:385

Engineering Properties of Some Sea-Floor Deposits, George H. Keller, SM6:Nov 69:1379:6907

Equilibrium Profiles of Model Beaches, Irvathur Vasudeva Nayak, 12CEC:71:1321

Fluid-Dynamic Consideration Of Bottom Materials, Hormoz Pazwash and James M. Robertson, CEO-II:70:1135

In-Situ Determination Of Seafloor Bearing Capacity, T. R. Kretschmer and H. J. Lee, CEO-II:70:679

In Situ Investigations Of Ocean Sediments, Lloyd Lewis, Vito A. Nacci and James Gallagher, CEO-II:70:641

Lubricant And Polymer Reduction Of Sediment Adhesion, R. A. Erchul and Raymond J. Smith, CEO-II:70:621

Mass Properties Of The Sea Floor In A Selected Depositional Environment, George H. Keller, CEO-II:70:857
Mining The Ocean For Beach Sand, Charles H. Fisher, CEO-II:70:717
Oceanic Factors Pertinent to Shelf Installations, Eugene C. La Fond and Katherine G. La Fond, CEO-II:70:783
Ocean Sediment Holding Strength Against Breakout Of Partially Imbedded Objects, Cheng L. Liu, CEO-II:70:105
Oscillatory Behavior Of Submerged Structures, Robert Y. S. Lai and Lyle F. Mockros, CEO-II:70:945
The Penetration of Objects Into The Ocean Bottom, Werner E. Schmid, CEO-II:70:167
The Role of Ground Crawling Vehicles in the Ocean, Klaus W. Wiendieck and Dean R. Freitag, CEO-II:70:327
Seasonal Bottom Changes - Bolinas Bay, California, Joe W. Johnson, 12CEC:71:1383
Structure of Deep Sea Clays, Vito A. Nacci and Milton T. Huston, CEO-II:70:599
Summary On Studies Of Setting The Self Elevating Drilling Unit "Fuji" On Soft Silty Sea Bed, Y. Arita and Y. Nakao, CEO-II:70:461
Variation of Topography of Sea-bed Caused by the Construction of Breakwaters, Shoji Sato and Isao Irie, 12CEC:71:1301
The Vertical Holding Capacity of Marine Anchors In Sand, Stanley M. Bemben and Edward H. Kalajian, CEO-II:70:117
Wave-Induced Scour On The Sea Floor, Harold D. Palmer, CEO-II:70:703

Ocean Currents

About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
A Field Laboratory for Stratified Flow Studies, P. C. Chang and Anching Lin, ISSF:Aug 72:501
Loadings on Large Piers in Waves and Currents, Hsiang Wang, 12CEC:71:1491
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF:Aug 72:595
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF:Aug 72:261

Ocean Engineering

Airy Wave Theory and Breaker Height Prediction, Paul D. Komar and Michael K. Gaughan, CE13:72:I-405
Annotated Bibliography of State-of-the-Art Articles for Pipelines in the Ocean. Progress Report of the Task Committee on Pipelines in the Oceans, Committee on Pipeline Planning, John G. Bomba, Chmn., PITO:74:81
An Approach to an Off-Shore Wave Climatology, J. A.W. McCulloch, CE13:72:I-145
Are Submarine Pipeline Contract Documents That Good?, Sam W. Small, III, PITO:74:67
Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71:1183:8372
Carbonate Cementation in Deep-Ocean Sediments, William E. Kelly, Vito A. Nacci, Mian C. Wang and Kenneth R. Demars, TN: GT3:Mar 74:383:10420
Concrete Deep Submergence Hollow Shell Structures, Jerry D. Stachiw, ST12:Dec 69:2931:6982
Concrete Hulls for Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, ST4:Apr 71:1283:8078
Confidence Intervals for Ocean Wave Spectra, Leon Emry Borgman, CE13:72:I-237
Design of Fish Conserving Intake System, Dallas I. Downs and Kenneth R. Meddock, PO2:Dec 74:191:11008
Design — State-of-the-Art, by Subcommittee on Design and Specifications of the Task Committee on Pipelines in the Ocean, James W. Gillespie, Chmn., PITO:74:45
Dredging Methods For Deep-Ocean Mineral Recovery, John B. Herbich, WW2:May 71:385:8120
Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72:1817:9127
Dynamic Structure-Soil Wave Model for Deep Water, Billy L. Edge and Paul G. Mayer, WW1:Feb 71:167:7889
Effects of Wastewaters on Marine Biota, Wheeler J. North, CE13:72:III-2099
Engineering Properties of Some Sea-Floor Deposits, George H. Keller, SM6:Nov 69:1379:6907
Final Report of the Task Committee on Pipelines in the Oceans — Introduction, John G. Bomba, Chmn., PITO:74:1
Fluid-Dynamic Consideration of Bottom Materials, Hormoz Pazwash and James M. Robertson, HY9:Sept 71:1317:8374
Fluid Force Analysis and Accelerating Sphere Tests, Wallis S. Hamilton and James E. Lindell, HY6:June 71:805:8195
Foundation Conditions, Wayne A. Dunlap and Louis J. Thompson, PITO:74:29
Gulf of Mexico Meteorology and Oceanography Data, E. G. Ward, WAVES:Sept 74:233
Height-Period Joint Probabilities in Hurricane Camille, Marshall D. Earle, Curtis C. Ebbesmeyer and Douglas J. Evans, TN: WW3:Aug 74:257:10724
Horizontal and Vertical Water Particle Velocities Induced by Waves, Yoshito Tsuchiya and Masataka Yamaguchi, CE13:72:I-555
Hurricane Surge Computations by Computer, Alan N. Sirkin, WW2:May 70:467:7299
In-Place Ocean Soil Strength By Accelerometer, Ronald F. Scott, SM1:Jan 70:199:7013
Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, SA6:Dec 70:1387:7769
Methodes de Mesure et Traitement de la Houle, Rene Bonnefille, CE13:72:I-315
A Method of Numerical Analysis of Wave Propagation -- Application to Wave Diffraction and Refraction, Yoshiyuki Ito and Katsutoshi Tanimoto, CE13:72:I-503
Natural Virus Inactivation Processes in Seawater, Hillel I. Shuval, SA5:Oct 71:587:8427
Non-Stationary Spectrum Analysis of Ocean Waves, Mehmet Aziz Tayfun, Cheng Y. Yang and George Chia-Chu Hsiao, CE13:72:I-251
Numerical Modeling of Constituent Transport in Bay Systems, Robert G. Dean and R. B. Taylor, CE13:72:III-2227
Ocean Dumping: What and Where, If at All?, Eugene E. Dallaire, CE:Nov 71:58
Ocean Engineering—Selected References, Walter J. Tudor, Chmn., WW3:Aug 74:241:10767
Offshore Pipeline Burial: Some Remarks on the State-of-the-Art, Sjoerd C. Haagsma, PITO:74:73
Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
The One-Dimensional Wave Spectra at Limited Fetch, Hisashi Mitsuyasu, CE13:72:I-289
Period by the Wave Group Method, Warren C. Thompson, CE13:72:I-197
A Preliminary Study of Storm Surges in Hudson Bay, K. B. Yuen and T. S. Murty, CE13:72:I-215
Prestressed Pipe for Power Site in New Zealand, Robert H. Weight, A. Max Jensen and A. M. McConnell, PO2:Nov 68:143:6229
Problems and Deficiencies: Economics and Environmental Considerations, David R. Miller, PITO:74:63
Rapid Coastal Bottom Water Temperature Rises, Paul D. Higley and David O. Cook, EE4:Aug 74:955:10734

Refraction de la Houle avec Diffraction Moderee, Francis Biesel, CE13:72:I-491

Reproduction of Physical Processes in Coastal Areas, Hans-Gerhard Ramming, CE13:72:III-2197

Researches on the Deformation of Wave Spectra in Intermediate Water Area by Calculation, Frederick L.W. Tang and Shan-Hwei Ou, CE13:72:I-271

Revisions to Hurricane Design Wave Practices, Charles L. Bretschneider, CE13:72:I-167

The Role of Surface Tension in Breaking Waves, Robert L. Miller, CE13:72:I-433

Scour Around a Circular Cylinder due to Wave Motion, Donald R. Wells and Robert M. Sorensen, 12CEC:71:1263

Seafloor Surveying by Divers, John B. Ciani, E. Kent Hunter, George B. Dowling and David M. Bunk, SU2:Nov 71:149:8496

Sea Observation in Coastal Areas: The Spanish Offshore Network, P. S. Bores, WAVES:Sept 74:13

Shallow Water Wave Characteristics, Winfried Siefert, CE13:72:I-329

Shoaling of Cnoidal Waves, I. A. Svendsen and O. Brink-Kjaer, CE13:72:I-365

Shoaling of Finite Amplitude Long Waves on a Beach of Constant Slope, Yuichi Iwagaki and Tetsuo Sakai, CE13:72:I-347

State-of-the-Art: Pipe Lines in the Oceans — Construction Factors, Robert G. Aldridge, PITO: 74:57

Syntactic Foams for Deep Sea Engineering Applications, Israel Resnick and Aleksander Macander, CO1:June 70:45:7367

Transformation of Waves Passing a Submerged Bar, Pierce L. Chandler, Jr. and Robert M. Sorensen, CE13:72:I-385

Transmission Lines Probe a New Frontier, The Ocean, Ian Watson, Joseph A. Fischer and Lawrence A. Salomone, EPCE:Aug 74:557

Use of Mixing Tubes on Marine Outfalls, Richard Silvester and Mana Patarapanich, CE13:72:III-2171

Wave Forces on Pipeline, Melville S. Priest, PITO: 74:23

Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098

Wave Forces on Submerged Objects of Symmetry, Subrata K. Chakrabarti, WW2:May 73:147:9698

Wave Refraction Theory in a Convergence Zone, Robert W. Whalin, CE13:72:I-451

Wind and Wave Climate Study in the North Sea, P. Kruseman, WAVES:Sept 74:1

Ocean Environments

Mineral Scavenging and Marine Pollution, Richard G. Bader, CEO-II:70:1

Waste Management In The Marine Environment, Clarence M. Tarzwell, CEO-II:70:477

Oceanographic Data

A Dynamic Structure-Soil-Wave Model For Deep Water, Billy L. Edge and Paul G. Mayer, CEO-II: 70:13

Mineral Scavenging and Marine Pollution, Richard G. Bader, CEO-II:70:1

Oceanographic Surveys

A Dynamic Structure-Soil-Wave Model For Deep Water, Billy L. Edge and Paul G. Mayer, CEO-II: 70:13

Oceanic Factors Pertinent to Shelf Installations, Eugene C. La Fond and Katherine G. La Fond, CEO-II:70:783

Oceanography

Accelerometer-Monitored Coring, William L. Preslan, CEO-II:70:655

Analysis Of Pile Driver Requirements For Off-Shore Piles By The Wave Equation, Lee L. Lowery, Jr., Thomas Charles Edwards and John M. Miller, CEO-II:70:415

Analysis of Wave Records By Non-Spectral Methods, Orville T. Magoon, Radford S. Hall, II and Robert L. Mosher, CEO-II:70:1089

Anti-Fouling System By Electrolysis Of Sea Water, Toru Yoshii, Kenji Ueda and Tsutomu Horiguchi, CEO-II:70:1045

Artificial Sea Ice Structures For Alaskan Ports, Charles E. Behlke and Alexander R. McKay, CEO-II:70:361

Avalon Transportation Wharf, James W. Dunham, WW2:May 71:371:8104

Behavior Of Concrete Exposed To The Sea, Bryant Mather, CEO-II:70:987

Biological Control Of Intestinal Bacteria and Viruses, Ralph Mitchell, CEO-II:70:1241

Breakout Resistance of Objects Embedded In Ocean Bottom, Aleksandar Sedmak Vesic, CEO-II:70:137

The Cheasapeake Bay Study And Hydraulic Model, John T. Starr, CEO-II:69:349

Computation for Circulation in Stratified Lakes, Kwang K. Lee and James A. Liggett, HY10:Oct 70: 2089:7634

Concrete Hulls For Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, CEO-II:70:999

Concrete-Polymer Composites for Underwater Applications, Lawrence E. Kukacka, Peter Colombo, Meyer Steinberg and Bernard Manowitz, CEO-II:70:969

Construction Of An Ocean Outfall Sewer and the Marine Environment In Its Vicinity, B. V. Elkins, CEO-II:70:413

Design And Construction Of The Makai Range Habitat, W. E. Bliss, Jr., CEO-II:70:369

Design of Offshore Structures Against Resonant Response, Lawrence G. Selna and David Cho, CEO-II:70:79

Deterministic and Probabilistic Design Wave Approach to Engineering Application, Ronald M. Noble and Richard B. Dornhelm, WAVES:Sept 74: 856

Diffusion Of Sewage Effluent From An Ocean Outfall, Robert E. Stewart, Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, CEO-II:70: 1151

Dredge Spoil Surveillance In Shellfish Areas, George W. Allen and Donald M. Conlon, CEO-II:70:823

A Dynamic Penetrometer For Investigating Sediment Properties, Robert D. Stoll, CEO-II:70:209

Dynamic Response Of Submerged Sphere, Herman Bomze, CEO-II:70:511

Dynamics Of A Single Point Mooring In Deep Water, John H. Nath and Michael P. Felix, CE0-II: 70:45

Dynamics of Fixed Towers in Deep-Water Random Waves, John H. Nath and Donald R.F. Harleman, WW4:Nov 69:539:6924

A Dynamic Structure-Soil-Wave Model For Deep Water, Billy L. Edge and Paul G. Mayer, CEO-II: 70:13

Effects Of Pile Roughness On Wave Forces On Piles, Robert M. Sorensen and William J. Burton, CE0-II: 70:441

Elastic Stability of Cylindrical Shells Under External Pressure, Cary K.K. Mak, Luis E. Amaya and Harry C. Saxe, CEO-II:70:535

Electrode Potential Control Of Ocean Outfalls, Werner N. Grune, Philip Quinn and Susan DiPrima, CEO-II:70:1187

Engineering Aspects Of A Movable Surveillance System, Richard C. Swenson, CEO-II:70:385

Engineering Properties of Submarine Soils: State-of-the Art Review, Iraj Noorany and Stanley F. Gizienski, SM5:Sept 70:1735:7536

An Evaluation of Undersea Nuclear Reactor Power Systems, Walter H. D'Ardenne, CEO-II:70:315

The Federal Water Pollution Control Administration's Research Program on Ocean Pollution Control, Arnold B. Joseph, Fred D. Sisler, Donald J. Baumgartner and William A. Cawley, CEO-II:70:465

Flexural Behavior Of Ferro-Cement Panels, Wen F. Chang, D. W. Gibson and N. R. Gibbons, CEO-II: 70:1023

Fluid-Dynamic Consideration Of Bottom Materials, Hormoz Pazwash and James M. Robertson, CEO-II:70:1135

Gulf of Mexico Meteorology and Oceanography Data, E. G. Ward, WAVES:Sept 74:233
Hydraulic Model Experiment On Waste Diffusion In Tokyo Bay, Tonia Eemura, Masamitsu Onitsuka, Hiroshi Fukao and Fumio Yamaguchi, CEO-II:70:247
Impact Loading Of Submersible Hulls, Frederick John Dzialo, CEO-II:70:487
Inelastic Buckling of Shallow Spherical Shells, Lawrence H.N. Lee, Teoman Ariman and Roger E. Hoffman, CEO-II:70:579
In-Situ Determination Of Seafloor Bearing Capacity, T. R. Kretschmer and H. J. Lee, CEO-II:70:679
In Situ Investigations Of Ocean Sediments, Lloyd Lewis, Vito A. Nacci and James Gallagher, CEO-II:70:641
Instrument Support Structure, Mervin D. Palmer, CEO-II:70:401
Interaction Of A River With The Coast: Laboratory Simulation, Omar H. Shemdin, CEO-II:70:763
A Least-Cost Analysis For The Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, CEO-II:70:269
Lubricant And Polymer Reduction Of Sediment Adhesion, R. A. Erchul and Raymond J. Smith, CEO-II:70:621
Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, CEO-II:70:249
A Marine Environmental Survey In The Bay of Fundy, Jack K. Tuttle and Robert L. McCollom, CEO-II:70:805
Mass Properties Of The Sea Floor In A Selected Depositional Environment, George H. Keller, CEO-II:70:857
Methods For Deep-Ocean Mineral Recovery, John B. Herbich, CEO-II:70:297
Mining The Ocean For Beach Sand, Charles H. Fisher, CEO-II:70:717
Model for Nonlinear Dynamics of Offshore Towers, Edward Terence Foster, Jr., EM1:Feb 70:41:7093
Numerical Modeling Of Hydromechanics Of Bay Systems, Akhileshwar P. Verma and Robert G. Dean, CEO-II:70:1069
Oceanic Factors Pertinent to Shelf Installations, Eugene C. La Fond and Katherine G. La Fond, CEO-II:70:783
Ocean Sediment Holding Strength Against Breakout Of Partially Imbedded Objects, Cheng L. Liu, CEO-II:70:105
Oscillatory Behavior Of Submerged Structures, Robert Y. S. Lai and Lyle F. Mockros, CEO-II:70:945
The Penetration of Objects Into The Ocean Bottom, Werner E. Schmid, CEO-II:70:167
Pollution of the Marine Environment by Oig, Ralph L. Rhodes, CEO-II:70:1211
Probability Distributions For Hurricane Effects, Larry R. Russell, CEO-II:70:835
Propagation Of Waves Generated By Underwater Explosion, James Chi-dian Go, CEO-II:70:1149
Properties of Circulation in Stratified Lakes, James A. Liggett and Kwang K. Lee, HY1:Jan 71:15:7793
A Radiological Approach to Littoral Drift Problems, Joseph H. Bittner, CEO-II:70:725
Rapid Discharge Measurement In Tidal Inlets, Bent A. Christensen and H. E. Walker, CEO-II:70:743
Reproduction of Physical Processes in Coastal Areas, Hans-Gerhard Ramming, CE13:72:III-2197
Response of Ocean Based Structure To Water-Shock Waves, Young C. Kim, CEO-II:70:93
Response Of Offshore Towers To Earthquake Excitation, Anil K. Malhotra and Joseph Penzien, CEO-II:70:65
The Role of Ground Crawling Vehicles in the Ocean, Klaus W. Wiendieck and Dean R. Freitag, CEO-II:70:327
Spherical Structural Systems In Fluid Media, Bijoy K. Bhattacharys and John F. Carney, III, CEO-II:70:555
Structure of Deep Sea Clays, Vito A. Nacci and Milton T. Huston, CEO-II:70:599
A Study On Construction Of Floating Breakwaters Or Floating Platforms, Tae Sang Won, CEO-II:70:943
Summary On Studies Of Setting The Self Elevating Drilling Unit "Fuji" On Soft Silty Sea Bed, Y. Arita and Y. Nakao, CEO-II:70:461
Tsunami-Responses Of San Pedro Bay And Shelf, Basil W. Wilson, CEO-II:70:1099
Two Innovations for Improving Harbor Resonators, William James, WW1:Feb 71:115:7871
The Vertical Holding Capacity of Marine Anchors In Sand, Stanley M. Bemben and Edward H. Kalajian, CEO-II:70:117
Waste Management In The Marine Environment, Clarence M. Tarzwell, CEO-II:70:477
Water Pollution on the Continental Shelf, John S. Farlow, Lester M. Klashman and Merrill S. Hohman, CEO-II:70:1233
Water Quality Considerations In Estuarine Development, Thomas P. Gallagher and John E. Hagan, III, CEO-II:70:229
Water Quality Monitoring For Pollution Control On The Continental Shelf, T. A. Wastler and Harold Berkson, CEO-II:70:221
Wave Attenuation by a Porous Walled Breakwater, Eugene P. Richey and Charles K. Sollitt, CEO-II:70:903
Wave-Induced Scour On The Sea Floor, Harold D. Palmer, CEO-II:70:703
Wave-Maze Floating Breakwater, H. Morgan Noble, CEO-II:70:929

Oceans

About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Dredging Methods For Deep-Ocean Mineral Recovery, John B. Herbich, WW2:May 71:385:8120
Environmental Effects of Oil Pollution, Thomas A. Murphy, SA3:June 71:361:8221
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, SA6:Dec 70:1387:7769
Mineral Scavenging and Marine Pollution, Richard G. Bader, CEO-II:70:1
Mixing of Columbia River and Ocean Waters in Summer, T. John Conomas and M. Grant Gross, SA5:Oct 68:979:6187
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
Rapid Coastal Bottom Water Temperature Rises, Paul D. Higley and David O. Cook, EE4:Aug 74:955:10734
Regional Approach to Port Development Planning, Howard J. Marsden, WW1:Feb 71:33:7896
Sensitivity Analysis of Wind Generated Wave Predictions, Charles D. D. Howard, WW2:May 71:365:8153
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF:Aug 72:595
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451
Two-Dimensional Wind Set-Up of Oil on Water, Robert M. Sorensen and Edmund B. Spencer, WW3:Aug 71:517:8326

Ocean Surveillance

Engineering Aspects Of A Movable Surveillance System, Richard C. Swenson, CEO-II:70:385

Ocean Tides

Hydraulic Model Experiment On Waste Diffusion In Tokyo Bay, Tonia Eemura, Masamitsu Onitsuka, Hiroshi Fukao and Fumio Yamaguchi, CEO-II:70:247
Numerical Modeling Of Hydromechanics Of Bay Systems, Akhileshwar P. Verma and Robert G. Dean, CEO-II:70:1069

Ocean Waves

Air Entrainment and Energy Dissipation in Breakers, Alfred Fuhrboter, 12CEC:71:391

Airy Wave Theory and Breaker Height Prediction, Paul D. Komar and Michael K. Gaughan, CE13:72:I-405

Analysis of Floating Plate Under Ocean Waves, Yi-Kwei Wen and Masanobu Shinozuka, WW2:May 72:177:8889

Analysis Of Pile Driver Requirements For Off-Shore Piles By The Wave Equation, Lee L. Lowery, Jr., Thomas Charles Edwards and John M. Miller, CEO-II:70:415

An Analysis of Wave Forces on a Pile, Farouk M. Abdel-Aal, WAVES:Sept 74:867

The Analysis of Wave Records, D. Lee Harris, 12CEC:71:85

Analysis of Wave Records By Non-Spectral Methods, Orville T. Magoon, Radford S. Hall, II and Robert L. Mosher, CEO-II:70:1089

An Approach to an Off-Shore Wave Climatology, J. A.W. McCulloch, CE13:72:I-145

Asymptotic Solutions of Resonances in Harbors With Basins, Chih-Lan Su, WW3:Aug 73:375:9954

Behavior of a Slender Body in Shallow-water Waves, Hsiang Wang and Li-San Hwang, CEC:71:1723

Bottom Boundary Shear Stresses on a Model Beach, P. G. Teleki and Melvin W. Anderson, 12CEC:71:269

Braking Wave Setup and Decay on Gentle Slopes, Li-San Hwang and David Divoky, 12CEC:71:377

Breakwater and Quay Wall by Horizontal Plates, Takeshi Ijima, Shigeo Ozaki, Yasuhiko Eguchi and Akira Kobayashi, 12CEC:71:1537

The Canadian Wave Climate Study - the Formative Year, Laurence Draper, 12CEC:71:1

Channel Effects in Harbor Resonance, George F. Carrier, Richard Paul Shaw and Moto Miyata, EM6:Dec 71:1703:8611

Characteristics of Shingle Beaches: The Solution to Some Practical Problems, A. M. Muir Wood, 12CEC:71:1059

Characteristics of Waves Broken by a Longshore Bar, E. Clark McNair and Robert M. Sorensen, 12CEC:71:415

Coastal Erosion in North Carolina, Leonard J. Langfelder, Donald B. Stafford and Michael Amein, WW2:May 70:531:7306

Coastal Processes from Space Photography, Maynard M. Nichols, 12CEC:71:641

Coastal Sand Management System, Birchard M. Brush, CE13:72:II-1503

A Comparison of Fluvial and Coastal Similitude, Bernard LeMehaute, 12CEC:71:1077

Comparison of Model and Beach Scour Patterns, John B. Herbich, 12CEC:71:1281

Comparison of Pressure and Staff Wave Gage Records, D. Esteva and D. Lee Harris, 12CEC:71:101

Compilation of Ocean and Lake Wave Statistics, John Simpson Hale, 12CEC:71:217

Computation of Alongshore Energy and Littoral Transport, Theodor R. Mogel, Robert L. Street and Byrne Perry, 12CEC:71:899

Computation of Storm Surge, Richard Silvester, 12CEC:71:1995

Computer Modelling of Diffraction of Wind Waves, Per Moller Bruun and Leon Emry Borgman, 12CEC:71:473

Confidence Intervals for Ocean Wave Spectra, Leon Emry Borgman, CE13:72:I-237

Damage Functions for a Rubble-mound Breakwater Under the Effect of Swells, Juan B. Font, 12CEC:71:1567

Deformations Of Pile Supported Structures, S. P. Prawell, Jr. and R. L. Ketter, CEO-II:70:417

Design Considerations on Wave Spectrum Estimation, Mehmet Aziz Tayfun, Cheng Y. Yang and George Chia-Chu Hsiao, WAVES:Sept 74:125

Design of Offshore Structures Against Resonant Response, Lawrence G. Selna and David Cho, CEO-II:70:79

The Development of Undular Bores with Friction, O. Hawaleshka and S. B. Savage, 12CEC:71:461

Dimensional Analysis - Spurious Correlation, Mehmet Selim Yalin and J. William Kamphuis, 12CEC:71:625

Directional Spectra From Wave-Gage Arrays, Narayana N. Panicker and Leon Emry Borgman, 12CEC:71:117

Directional Spectra Model for Ocean Waves, Jared L. Black, WAVES:Sept 74:713

Distribution of Sediment Transport Across the Surf Zone, Edward B. Thornton, CE13:72:II-1049

Dynamic Response Of Submerged Sphere, Herman Bomze, CEO-II:70:511

Dynamics Of A Single Point Mooring In Deep Water, John H. Nath and Michael P. Felix, CE0-II:70:45

A Dynamic Structure-Soil-Wave Model For Deep Water, Billy L. Edge and Paul G. Mayer, CEO-II:70:13

Edge Waves and the Littoral Environment, Anthony J. Bowen, CE13:72:II-1313

Effect of Long Period Waves on Hydrographic Surveys, Orville T. Magoon and William O. Sarlin, 12CEC:71:2251

Effects of Nonuniform Wave Energy in the Littoral Zone, Victor Goldsmith and Joseph M. Colonell, 12CEC:71:767

Effects Of Pile Roughness On Wave Forces On Piles, Robert M. Sorensen and William J. Burton, CE0-II:70:441

Energy Losses under Wave Action, P. D. Treloar and A. Brebner, 12CEC:71:257

Environmental Problems and Monitoring in Coastal Waters, Arthur T. Ippen, CE13:72:I-9

Equilibrium Profiles of Model Beaches, Irvathur Vasudeva Nayak, 12CEC:71:1321

Equilibrium Range Spectra in Shoaling Water, Takeshi Ijima, Takahiko Matsuo and Kazutami Koga, 12CEC:71:137

Estimation of Wave Parameters at Marine Construction, Yu M. Krylov, S. S. Strekalov and V. F. Tsyploukhin, TN: WW4:Nov 71:793:8491

Estuary Inlet Channel Stabilization Study Using A Hydraulic Model, Theodore T. Lee, 12CEC:71:1117

Experimental Studies on the Generation of Waves in Shallow Water, C. T. Kuo and Frederick L.W. Tang, 12CEC:71:179

Experiments of Wave Reflexion on Impermeable Slopes, Carlos de Campos Moraes, 12CEC:71:509

Experiments on Bed Form Generation by Wave Action, Geoffrey R. Mogridge and J. William Kamphuis, CE13:72:II-1123

Extreme Wave Conditions in British and Adjacent Waters, Laurence Draper, CE13:72:I-157

Extreme Wave Height Distributions Over Oceans, Herbert C.S. Thom, WW3:Aug 73:355:9939

Field Observations of Nearshore Current System, Kiyoshi Horikawa and Tamio Sasaki, CE13:72:I-635

Field Study of a Tidal Inlet, Bimini, Bahamas, W. Harrison, R. J. Byrne, J. D. Boon, III and R. W. Moncure, 12CEC:71:1201

Field Study of Surathkal Beach, P. Suryaprakasa Rao and P. Kassim, 12CEC:71:1365

Finite Spectrum Analyses of Wave Records, D. Lee Harris, WAVES:Sept 74:107

Floating Breakwaters, David S. Miller, CE:Mar 74:77

Flow-Field Relationships in Directional Waves, R. R. Putz, WAVES:Sept 74:721

Frequency Response of a Shipborne Wave Recorder, H. M. van Aken and E. Bouws, WAVES:Sept 74:281

A Gross Longshore Transport Rate Formula, Cyril J. Galvin, Jr., CE13:72:II-953

Growth of Crenulate Shaped Bays to Equilibrium, Richard Silvester, WW2:May 70:275:7274

Gulf of Mexico Meteorology and Oceanography Data, E. G. Ward, WAVES:Sept 74:233

Harbor Study for San Nicolas Bay, Peru, James M. Keith and Emmett J. Murphy, 12CEC:71:2195

A Higher Order Theory for Symmetrical Gravity Waves, Peter L. Monkmeyer, 12CEC:71:543

Honolulu Reef Runway Dike, Robert Q. Palmer and James R. Walker, 12CEC:71:1629

Horizontal and Vertical Water Particle Velocities Induced by Waves, Yoshito Tsuchiya and Masataka Yamaguchi, CE13:72:I-555
Horizontal Water Particle Velocity of Finite Amplitude Waves, Yuichi Iwagaki and Tetsuo Sakai, 12CEC:71:309
Hydraulic Resistance of Artificial Concrete Blocks, Nobuo Shuto and Hiroshi Hashimoto, 12CEC:71:1587
Hydrodynamic Force Coefficients for Oscillatory Flow, George Morgan, WAVES:Sept 74:879
Impulse Waves Generated by Landslides, J. William Kamphuis and R. J. Bowering, 12CEC:71:575
The Influence of Breaker Type on Riprap Stability, John P. Ahrens, 12CEC:71:1557
Interaction between Waves and Currents, Ivar G. Jonsson, Christian Skougaard and John D. Wang, 12CEC:71:489
Interaction of Ocean Waves with Floating Plate, Yi-Kwei Wen, EM2:Apr 74:375:10492
Laboratory Study for Design of Tsunami Barrier, Adel M. Kamel, WW4:Nov 70:767:7669
Laboratory Tests of Longshore Transport, John C. Fairchild, 12CEC:71:867
Least Cost Gauge Buoy for Measurement and Analysis of Ocean Waves, Joseph R. Reynolds, Jr. and John F. Hoffman, WAVES:Sept 74:639
Limiting Condition for Standing Wave Theories by Perturbation Method, Yoshito Tsuchiya and Masataka Yamaguchi, 12CEC:71:523
Littoral Transport and Energy Relationships, L. Bajorunas, 12CEC:71:787
Loadings on Large Piers in Waves and Currents, Hsiang Wang, 12CEC:71:1491
Longshore Transport of Suspended Sediment, John C. Fairchild, CE13:72:II-1069
Macro-Turbulence From Wind Waves, Chin-Yuan Lee and Frank D. Masch, 12CEC:71:223
Maximum Breaker Height for Design, J. Richard Weggel, CE13:72:I-419
Maximum Wave Height Probabilities for a Random Number of Random Intensity Storms, Leon Emry Borgman, 12CEC:71:53
Measurement of Bed Shear Stress Under Waves, H. P. Riedel, J. William Kamphuis and A. Brebner, CE13:72:I-587
The Measurement of Offshore Shingle Movement, Maurice J. Crickmore, C. B. Waters and W. A. Price, CE13:72:II-1005
Measurement of Swash Profile and Orbital Motion on the Beach, Choule J. Sonu, Neal Pettigrew and Rodney G. Fredericks, WAVES:Sept 74:621
Methodes de Mesure et Traitement de la Houle, Rene Bonnefille, CE13:72:I-315
A Method of Numerical Analysis of Wave Propagation -- Application to Wave Diffraction and Refraction, Yoshiyuki Ito and Katsutoshi Tanimoto, CE13:72:I-503
Mining The Ocean For Beach Sand, Charles H. Fisher, CEO-II:70:717
Modeling Sedimentation at Inlet and Coastal Region, Pang-Mou Lin, CE13:72:II-883
Modelling Tidal Flow From Harbors, Frederick E. Camfield, TN: WW4:Nov 70:879:7647
New Designs for Beach Protection Structures, G. D. Khaskhachikh, G. A. Tsaturiyan and Ya. S. Shulgin, CE13:72:III-1675
New Equipment for Field Measurement of Water Surface Waves, Ake Sandstrom, WAVES:Sept 74:272
Nondeterministic Analysis of Offshore Structures, Anil K. Malhotra and Joseph Penzien, EM6:Dec 70:985:7777
Non-Stationary Spectrum Analysis of Ocean Waves, Mehmet Aziz Tayfun, Cheng Y. Yang and George Chia-Chu Hsiao, CE13:72:I-251
Norwegian Wave Climate Study, O. G. Houmb, B. Pedersen and P. Steinbakke, WAVES:Sept 74:25
Numerical Model for Tsunami Run-Up, Kenneth L. Heitner and George W. Housner, WW3:Aug 70:701:7491
Observations of Waves in the North Pacific, Lawrence H. Larsen and Douglas R. Fenton, WAVES:Sept 74:197
Ocean Engineering—Selected References, Walter J. Tudor, Chmn., WW3:Aug 74:241:10767
Ocean Wave Measuring Instrumentation, Richard L. Ribe and Eugene M. Russin, WAVES:Sept 74:396
Ocean Wave Research in Southern Africa, Johan A. Zwamborn, C. van Schaik and A. Harper, 12CEC:71:13
Ocean Wave Simulation for Engineering Design, Leon Emry Borgman, WW4:Nov 69:557:6925
Offset Coastal Inlets, Miles O. Hayes, Victor Goldsmith and Carl H. Hobbs, III, 12CEC:71:1187
The One-Dimensional Wave Spectra at Limited Fetch, Hisashi Mitsuyasu, CE13:72:I-289
On the Formation of Spiral Beaches, Paul H. LeBlond, CE13:72:II-1331
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
Periodic Waves Shoaling in Waters over Steeply Sloping Bottoms, Harihara Rama, 12CEC:71:363
Plunging Wave Pressures on a Semi-cylindrical Tube, Yuan Jen and Pang-Mou Lin, 12CEC:71:1469
Prediction Curves for Waves near the Source of an Impulse, Robert L. Miller, 12CEC:71:609
Pressure of Waves Against Vertical Walls, M. E. Plakida, 12CEC:71:1451
A Probabilistic Approach to Determine Wave Forces on Ocean Pile Structures, G. I. Schueller and Haresh C. Shah, CE13:72:III-1683
Probabilities For Highest Wave In Hurricane, Leon Emry Borgman, WW2:May 73:185:9705
Probabilities of Breaking Wave Characteristics, J. Ian Collins, 12CEC:71:399
Probabilities of Breaking Wave Characteristics, J. Ian Collins, 12CEC:71:399
Probability Distributions For Hurricane Effects, Larry R. Russell, CEO-II:70:835
Processing and Analysis of Radioisotopic Sand Tracer (RIST) Study Data, H. R. Brashear, E. H. Acree, F. N. Case, P. A. Turner and David B. Duane, 12CEC:71:821
Propagation Of Waves Generated By Underwater Explosion, James Chi-dian Go, CEO-II:70:1149
Protection of Offshore Structures Against Underscour, Chesley J. Posey, HY7:July 71:1011:8230
Reach of Waves to the Bed of the Constitutional Shelf, Richard Silvester and Geoffrey R. Mogridge, 12CEC:71:651
Recreational Surfing on Hawaiian Reefs, James R. Walker, Robert Q. Palmer and Joseph K. Kukea, CE13:72:III-2597
Refraction de la Houle avec Diffraction Moderee, Francis Biesel, CE13:72:I-491
Refraction of Continuous Ocean Wave Spectra, Thorbjorn Karlsson, WW4:Nov 69:437:6881
Relations Between the Run-Up and Overtopping of Waves, Shoshichiro Nagai and Akira Takada, CE13:72:III-1975
Relationship Between the Significant Waves and the Directional Wave Spectrum, Shan-Hwei Ou, Charles L. Bretschneider and Frederick L.W. Tang, WAVES:Sept 74:728
Relative Validities of Water Wave Theories, Robert G. Dean, WW1:Feb 70:105:7092
Researches on Sea-Walls, Shoshichiro Nagai, 12CEC:71:1431
Researches on the Deformation of Wave Spectra in Intermediate Water Area by Calculation, Frederick L.W. Tang and Shan-Hwei Ou, CE13:72:I-271
Research for the Coastal Area of the Delta Region of the Netherlands, J. J. Dronkers, 12CEC:71:1783
Resolution of Partial Clapotis, William James, TN: WW1:Feb 70:167:7049
Resonance in Harbors of Arbitrary Shape, Jiin-Jen Lee and Fredric Raichlen, 12CEC:71:2163
Response of Ocean Based Structure To Water-Shock Waves, Young C. Kim, CEO-II:70:93
Review of Techniques for Directional Wave Spectra, Narayana N. Panicker, WAVES:Sept 74:669
Revisions to Hurricane Design Wave Practices, Charles L. Bretschneider, CE13:72:I-167
Rio Grande Bar - The Case History of a Lagoon Outlet into a Tideless Sea, V. F. Motta, 12CEC:71:1243

The Role of Surface Tension in Breaking Waves, Robert L. Miller, CE13:72:I-433

Scour Around a Circular Cylinder due to Wave Motion, Donald R. Wells and Robert M. Sorensen, 12CEC:71:1263

Sea-Bed Configuration in Relation to Breakwater Stability, J. H. van Oorschot and A. Wevers, CE13:72:II-1543

Sea Observation in Coastal Areas: The Spanish Offshore Network, P. S. Bores, WAVES:Sept 74:13

Seasonal Bottom Changes - Bolinas Bay, California, Joe W. Johnson, 12CEC:71:1383

Sea State Measurements from Pressure Records, Y. Y. Kim and L. H. Simon, WAVES:Sept 74:40

Sediment Transport by Wave Action, Hans Albert Einstein, CE13:72:II-933

Sensitivity Analysis of Wind Generated Wave Predictions, Charles D. D. Howard, WW2:May 71:365:8153

The Shear Stress of Sea Breeze on a Swash Zone, Shih-Ang Hsu, 12CEC:71:243

Shoaling of Cnoidal Waves, I. A. Svendsen and O. Brink-Kjaer, CE13:72:I-365

Shoaling of Finite Amplitude Long Waves on a Beach of Constant Slope, Yuichi Iwagaki and Tetsuo Sakai, CE13:72:I-347

Shoaling of Finite-Amplitude Waves on Plane Beaches, Robert K. C. Chan and Robert L. Street, 12CEC:71:345

Some Experiments with Sand-filled Flexible Tubes, Per Roed Jakobsen and Arne Hasle Nielsen, 12CEC:71:1513

Some Results of a Directional Wave Recording Station, J. Ploeg, CE13:72:I-131

Spectral Computations on Pressure Wave Gauge Records, Manuel Mendes de Carvalho, Fernando Silveira Ramos and Carlos de Campos Moraes, 12CEC:71:65

Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4:Nov 72:443:9318

Spectral Response of Harbor Resonator Configurations, William James, 12CEC:71:2181

Spectrum Analysis of Ocean Wave Records, Basil W. Wilson, Subrata K. Chakrabarti and Robert H. Snider, WAVES:Sept 74:87

The Spiral Wavemaker for Littoral Drift Studies, Robert A. Dalrymple and Robert G. Dean, CE13:72:I-689

Stability of Laminar Flow at Seabed, John F.A. Sleath, WW2:May 74:105:10512

Structure of Sea Wave Frequency Spectrum, S. S. Strekalov, V. F. Tsyploukhin and S. T. Massel, CE13:72:I-307

Studies on the Navigation Buoy for Strong Tidal Currents and Large Waves, Shoshichiro Nagai, Kazuki Oda and Katsuhiko Kurata, CE13:72:III-1743

Study of Durban Harbor Silting and Beach Erosion, Jan Malan Jordaan, Jr., 12CEC:71:1097

Study of Topolobampo's Bay, Mexico, Entrance, Hector Lopez Gutierrez and Daniel Cervantes Castro, 12CEC:71:1151

Study of Wave Climate in Nearshore Waters, Steven S. Pawka, WAVES:Sept 74:745

Surge in the Southeast Basin, Long Beach Harbor, Calif., Basil W. Wilson, James A. Hendrickson and Yuan Jen, CE13:72:III-2617

Suspended Sediment and Longshore Sediment Transport Data Review, Madan M. Das, CE13:72:II-1027

Swell and Storm Characteristics from Coastal Wave Records, Warren C. Thompson, 12CEC:71:33

Synoptic Observations of Sand Movement, David B. Duane, 12CEC:71:799

Systematic Study of Coastal Erosion and Defence Works in the Southwest Coast of India, N. S. Moni, CE13:72:II-1427

A System for Measuring Orbital Velocities in Waves, M. M. Kolpak and P. S. Eagelson, 12CEC:71:327

A Teleprocess System: The Spanish Offshore Network, L. Tejedor, WAVES:Sept 74:186

Tidal Inlet Current -- Ocean Wave Interaction, Lyndell Z. Hales and John B. Herbich, CE13:72:I-669

Tidal Inlet Problems Along the New England Coast, Oscar E. Arpin, 12CEC:71:1171

Time Dependent Shear Stress Beneath a Shoaling Wave, John S. Fisher, Bruce Johnson and Michael E. McCormick, WAVES:Sept 74:799

Transformation of Waves Passing a Submerged Bar, Pierce L. Chandler, Jr. and Robert M. Sorensen, CE13:72:I-385

Tsunami Generation and Propagation, Joseph L. Hammack, Jr. and Fredric Raichlen, CE13:72:III-2577

Tsunami-Responses Of San Pedro Bay And Shelf, Basil W. Wilson, CEO-II:70:1099

Turbulence and Sediment Concentration due to Waves, Kiyoshi Horikawa and Akira Watanabe, 12CEC:71:751

Turbulent Currents in the Presence of Waves, Helge Lundgren, CE13:72:I-623

Typhoon Waves at the High Island Dam, Hong Kong, Peter Ackers, J. A.T. Aspden and J. L. Boyd, WAVES:Sept 74:523

An Underwater Survey System for Radionuclide-tagged Sediment Tracing, E. H. Acree, H. R. Brashear and F. N. Case, 12CEC:71:815

Use of Asphalt in Breakwater Construction, K. d'Angremond, H. J. Th. Span, J. van der Weide and A. J. Woestenenk, 12CEC:71:1601

Use of Volcanoes for Determination of Direction of Littoral Drift, Per Moller Bruun and Gisli Viggosson, 12CEC:71:935

Variation of Longshore Current Across the Surf Zone, Edward B. Thornton, 12CEC:71:291

Velocity and Shear Stress in Wave Boundary Layers, P. G. Teleki, CE13:72:I-569

Velocity Fields in the Wave Breaker Zone, M. D. Adeyemo, 12CEC:71:435

Venice is Sinking into the Sea, Carlo Berghinz, CE:Mar 71:67

Wave Analysis System for the Breaker Zone, William L. Wood, WAVES:Sept 74:774

Wave Attenuation by a Porous Walled Breakwater, Eugene P. Richey and Charles K. Sollitt, CEO-II:70:903

Wave Climate in the Eastern Caribbean, Compton Deane, WAVES:Sept 74:214

Wave Forces on Cylinders Near Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, WW4:Nov 74:345:10944

Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098

Wave Forecasting for the West Coast of India, Jade Dattatri and P. S. Renukaradhya, 12CEC:71:203

Wave Forecasting for the West Coast of India, Jade Dattatri and P. S. Renukaradhya, WW3:Aug 71:505:8303

Wave Groups in Ocean Swell, Warren C. Thompson and Raymond C. Smith, Jr., WAVES:Sept 74:338

Wave-Induced Scour On The Sea Floor, Harold D. Palmer, CEO-II:70:703

Wave Investigations in Shallow Water, Winfried Siefert, 12CEC:71:151

Wave-Maze Floating Breakwater, H. Morgan Noble, CEO-II:70:929

Wave Refraction and Littoral Transport Computation, Theodor R. Mogel and Robert L. Street, WAVES:Sept 74:790

Wave Refraction Near San Pedro Bay, California, Yuan Jen, WW3:Aug 69:379:6749

Wave Refraction Theory in a Convergence Zone, Robert W. Whalin, CE13:72:I-451

Waves Generated by a Piston-type Wavemaker, Ole Secher Madsen, 12CEC:71:589

Waves Generated by Large Ships and Small Boats, Madan M. Das and Joe W. Johnson, 12CEC:71:2281

Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532

Wave Train Direction Analysis, Subrata K. Chakrabarti, TN: WW4:Nov 71:787:8491

Wave Transmission by Overtopping, Ralph H. Cross, III and Charles K. Sollitt, WW3:Aug 72:295:9137

Wind and Wave Climate Study in the North Sea, P. Kruseman, WAVES:Sept 74:1

Odor Control
Oxygen Sewage-Treatment Process Handles Shock Loads, Cuts Odors, R. J. Gozikowski and R. H. Oeler, CE:Aug 74:49

Office Equipment
The Programmable Calculator: A Place In Civil Engineering, Eugene E. Dallaire, CE:Feb 72:70

Offsets
Offsets to Sight Obstructions Near the Ends of Horizontal Curves, William L. Raymond, Jr., CE: Jan 72:71

Offshore Completion
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495

Offshore Platforms
An Analysis of Wave Forces on a Pile, Farouk M. Abdel-Aal, WAVES:Sept 74:867
Height-Period Joint Probabilities in Hurricane Camille, Marshall D. Earle, Curtis C. Ebbesmeyer and Douglas J. Evans, TN: WW3:Aug 74:257: 10724

Offshore Structures
Analytical Model for Prediction of Ice-Structure Interaction, Hudson Matlock, William P. Dawkins and John J. Panak, EM4:Aug 71:1083:8282
Computation of Combined Refraction-Diffraction, J. C.W. Berkhoff, CE13:72:I-471
Concrete Hulls for Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, ST4:Apr 71:1283:8078
Concrete Oil Storage Tank to Rest in North Sea, Ben C. Gerwick, Jr. and Eivind Hognestad, CE:Aug 73: 81
Deep Water Contruction Problems in Offshore Terminal, Vincent Scott Fox, CE:June 70:63
Deformations Of Pile Supported Structures, S. P. Prawell, Jr. and R. L. Ketter, CEO-II:70:417
Design Criteria for Single-Point Mooring Terminals, J. M. Langeveld, WW4:Nov 74:305:10931
Design of Deep Penetration Piles for Ocean Structures, Bramlette McClelland, GT7:July 74:705: 10665
Design of Fish Conserving Intake System, Dallas I. Downs and Kenneth R. Meddock, PO2:Dec 74: 191:11008
Dynamics of Fixed Towers in Deep-Water Random Waves, John H. Nath and Donald R.F. Harleman, WW4:Nov 69:539:6924
Effect on Waterway Depth and Alignments, Casimir J. Kray, WW2:May 70:497:7305
Embankment Construction On Yielding Sea Bottom, Aris C. Stamatopoulos and Panaghiotis C. Kotzias, SM7:July 72:727:9066
Energy Conservation, Noise, and Vibration Control in Construction of Floating Offshore Power Plants, James A. O'Kon, TN: CO2:June 74:195:10570
Excitation of Waves Inside a Bottomless Harbor, Noboru Sakuma, Johannes Buhler and Robert L. Wiegel, CE13:72:III-2005
Extreme Wave Conditions in British and Adjacent Waters, Laurence Draper, CE13:72:I-157
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
Gulf of Mexico Meteorology and Oceanography Data, E. G. Ward, WAVES:Sept 74:233
Hydrodynamic Force Coefficients for Oscillatory Flow, George Morgan, WAVES:Sept 74:879
Hydrography and the Engineer, Colin G. McQ. Weeks, SU1:Sept 73:1:9981
Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563
Interaction of Waves with Submerged Objects, C. J. Garrison and V. Seetharama Rao, WW2:May 71: 259:8111
Khazzan Dubai No. 1: Pile Design and Installation, James A. Wees and Robert S. Chamberlin, SM10: Oct 71:1415:8439
Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713
Model for Nonlinear Dynamics of Offshore Towers, Edward Terence Foster, Jr., EM1:Feb 70:41:7093
Nondeterministic Analysis of Offshore Structures, Anil K. Malhotra and Joseph Penzien, EM6:Dec 70:985:7777
Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10: Oct 73:2011:10091
Offshore Airport Site Planning, Frank T. Wheby, TE3:Aug 74:543:10725
Offshore Developments that Minimize Environmental Impact, Charles J. Lord, CO2:June 74:159:10610
Offshore Mooring Systems, Robert C. H. Russell, BMS:71:254
Off-shore Mooring Systems at Exposed Locations, Albert Steenmeyer, BMS:71:241
Off-shore Mooring Systems at Protected or Semi-protected Locations, Albert Steenmeyer, BMS:71: 224
Offshore Pipeline Burial, Sjoerd C. Haagsma, TN: TE4:Nov 73:980:10117
Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
Pipeline Design to Reduce Anchor and Fishing Board Damage, Robert J. Brown, TE2:May 73:199: 9716
Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59: 9844
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516
Port Construction At Burns Waterway Harbor, John H. McGavock, Norman R. Loesing and Elvis R. Dye, CO1:Mar 71:17:7990
Port Latta--Open Sea Loading Terminal, Paul Soros, CE:Jan 69:62
Problems in Design and Installation of Offshore Piles, Bramlette McClelland, John A. Focht, Jr. and William J. Emrich, SM6:Nov 69:1491:6913
Proposed Santa Monica Causeway Project, James W. Dunham, WW4:Nov 68:425:6219
Protection of Offshore Structures Against Underscour, Chesley J. Posey, HY7:July 71:1011: 8230
A Reel-Type Pipelaying Barge, Paul K. Johnson, CE: Oct 71:45
Regional Approach to Port Development Planning, Howard J. Marsden, WW1:Feb 71:33:7896
Relative Validities of Water Wave Theories, Robert G. Dean, WW1:Feb 70:105:7092
Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708
Response of Offshore Structures to Random Wave Forces, Anil K. Malhotra and Joseph Penzien, ST10:Oct 70:2155:7626
Risk Evaluations for Offshore Structures, Peter W. Marshall, ST12:Dec 69:2907:6981
Social Concerns—Nuclear Offshore River Basin Construction, Harlan W. Fair, CO1:Mar 74:51: 10417
Stochastic Seismic Analysis of Yielding Offshore Towers, Maharaj K. Kaul and Joseph Penzien, EM5:Oct 74:1025:10884
Supercarriers Versus U.S. Harbor Dimensions, Francis P. Koisch, WW1:Feb 71:19:7904
Transmission Lines Probe a New Frontier, The Ocean, Ian Watson, Joseph A. Fischer and Lawrence A. Salomone, EPCE:Aug 74:557
Trends in Offshore Airports, Richard D. Harza, TE4: Nov 72:985:9343
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793
Undersea Oil Storage Tank, Robert S. Chamberlin, CE:Aug 70:57

Ohio

Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125:9697
Factors Affecting Floods from Small amd Large Watersheds, Yoseph Bar-Kochba and Andrew L. Simon, IRS:Sept 72:87
Settlement of Footings on a Non-Uniform Foundation, C. Robert Lennertz, PES:72:I-929
Stark County, Ohio's Low Cost Road-Safety Program, CE:Nov 74:64
State Office Building, Dalton, Dalton, Little & Newport, TB:73:C-P-434
Tilt-Up Wall Construction Speeds Warehouse Construction, CE:June 74:58
Water Resources Education in Civil Engineering, Vincent T. Ricca and Robert C. Stiefel, CEE:Feb 74:1-96

Oils

Engineering the Trans-Alaska Pipeline, CE:Sept 72:79
New Wastewater Treatment Plant Reuses Its Oil Sludge, James W. Hubbell, CE:Sept 70:81
Some Biological Impacts of Converting Powerplants from Oil to Coal, Paul F. Berg, EPCE:Aug 74:623

Oil Spills

Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1:May 73:205:9738
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711
Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73:245:9665
Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930

Oil Storage

Concrete Oil Storage Tank to Rest in North Sea, Ben C. Gerwick, Jr. and Eivind Hognestad, CE:Aug 73:81
Crude Storage: Tanks or Caverns?, M. P. Daruwalla and J. N. Hagg, CE:Apr 71:38

Oil Wastes

The Cleaning of Gravel Beaches Polluted by Oil, E. H. Owens, CE13:72:III-2539
Containing Oil Slicks in Flows of Finite Depth, David L. Wilkinson, CE13:72:III-2567
Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73:245:9665
Natural Cleaning of Oil Polluted Seashores, Georges Drapeau, CE13:72:III-2547
Oil Boom for Emergency Harbor Use, Ralph H. Cross, III and John J. Cunningham, WW1:Feb 73:27:9531
Problems of Oil Pollution on Coastal Waters and Beaches, Uwe Carow, CE13:72:III-2533
Steady-state Profile for Oil Barriers, Richard Robbins, David P. Hoult and Ralph H. Cross, III, TN: WW1:Feb 71:235:7891
Two-Dimensional Wind Set-Up of Oil on Water, Robert M. Sorensen and Edmund B. Spencer, WW3:Aug 71:517:8326

Oil-Water Interfaces

Two-Dimensional Wind Set-Up of Oil on Water, Robert M. Sorensen and Edmund B. Spencer, WW3:Aug 71:517:8326

Oily Water

Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711
Oil Booms in Tidal Currents, Ralph H. Cross, III and David P. Hoult, 12CEC:71:1745

Oklahoma

Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653

Open Channel Flow

Analysis of Flow in Channels with Gravel Beds, John A. Roberson and Steven J. Wright, HY8:Aug 73:63
Analysis of Resistance Over Staggered Roughness, Hsieh W. Shen and Ruh-Ming Li, TN: HY11:Nov 73:2169:10/47
Automation of an Existing Irrigation System - Part I, Richard G. Ericsen, IR73:Aug 73:369
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469
Boundary Shear Distribution in Open Channel Flow, S. N. Ghosh and N. Roy, HY4:Apr 70:967:7241
Brink Depth for Trapezoidal Broad-Crested Weir, Birendra N. Neogy, HY12:Dec 72:2171:9427
Channel Effects in Harbor Resonance, George F. Carrier, Richard Paul Shaw and Moto Miyata, EM6:Dec 71:1703:8611
Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2:Feb 73:259:9542
Characteristics of Self-Aerated Flows, Nagar S. Lakshmana Rao, Kyatsandra Seetharamiah and Thimmaiah Gangadharaiah, HY2:Feb 70:331:7055
Closed Conduit to Open Channel Stilling Basin, Gordon H. Flammer, Gaylord V. Skogerboe and Chi-Yuan Wei, IR1:Mar 70:1:7124
Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626
Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841
Critical Depth In Trapezoidal Channels, Kuan M. Yao, TN: HY12:Dec 70:2681:7716
Current Water Systems Automation Research and Development in the Bureau of Reclamation, Charles A. Calhoun, IR73:Aug 73:353
Desktop Computer Flow Routing, Thomas N. Keefer, HY7:July 74:1047:10669
The Development of Undular Bores with Friction, O. Hawaleshka and S. B. Savage, 12CEC:71:461
Difference Method for Higher-Order Equations of Flow, G. S. Rodenhuis, HY3:Mar 73:471:9628
Diffusion and Dispersion in Open Channel Flow, Arthur C. Miller and Everett V. Richardson, HY1:Jan 74:159:10298
Dispersion of Silt Particles in Open Channel Flow, William W. Sayre, HY3:May 69:1009:6579
Dynamic Equations for Steady Spatially Varied Flow, Ben Chie Yen and Harry G. Wenzel, Jr., HY3:Mar 70:801:7179
Effects of Surface Drainage on Stream Flow, H. N. McGill, Allyn C. Bennett, Wendell B. Moody and Gene C. Vittetoe, IR73:Aug 73:501
Energy Loss Analysis for Open Channel Expansions, Gaylord V. Skogerboe, HY10:Oct 71:1719:8464
Equivalent Roughness for Shallow Channels, Muthusamy Krishnamurthy and Bent A. Christensen, TN: HY12:Dec 72:2257:9397
Estimating Discharge From Superelevation in Bends, Robert P. Apmann, HY1:Jan 73:65:9482
Flexible Roughness in Open Channels, Nicholas Kouwen and Tharakkal E. Unny, HY5:May 73:713:9723
Flood-Control Facilities for Unique Flood Problems, Ralph F. Wong and Alfonso Robles, Jr., WW1:Feb 71:185:7894
Flow Around 180 Degree Bends in Open Rectangular Channels, Mostafa M. Soliman and E. Roy Tinney, HY4:July 68:893:6027
Flow in Open Channels with Smooth Curved Boundaries, Mohammad S. Moayeri, HY12:Dec 73:2217:10194
Flow Over Triangular Elements Simulating Dunes, Mahmoud Faisal Rifai and Kenneth V.H. Smith, HY7:July 71:963:8246

Flow Profile Computation by Direct Integration, Kanakatti Subramanya and Amruthur S. Ramamurthy, TN: HY9:Sept 74:1307:10776

Flume Experiments on Alternate Bar Formation, Hai Yain Chang, Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869

Free Overfall As Flow Measuring Device, Sebastian W. Bauer and Walter H. Graf, IR1:Mar 71:73:7987

Free Surface Slopes at Controls in Channel Flow, David L. Wilkinson, HY8:Aug 74:1107:10753

Free Surface, Velocity Gradient Flow Past Hemisphere, Gordon H. Flammer, J. Paul Tullis and Earl S. Mason, HY7:July 70:1485:7418

Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438

Geometric and Frictional Effects on Sudden Releases, Shih-Tun Su and Albert H. Barnes, HY11:Nov 70:2185:7650

Graphical Solution to Hydraulic Jump, Roland W. Jeppson, HY1:Jan 70:103:7014

Height of Sand Dunes in Open Channel Flows, Mohammad Akram Gill, HY12:Dec 71:2067:8612

Hydraulic Control for Flow Distribution, Kuan M. Yao, SA2:Apr 72:275:8808

Hydraulic Design of Self-Cleaning Sewage Tunnels, Dagfinn K. Lysne, SA1:Feb 69:17:6404

Inception and Entrainment in Self-Aerated Flows, Thimmaiah Gangadharaiah, Nagar S. Lakshmana Rao and Kyatsandra Seetharamiah, HY7:July 70:1549:7427

Incipient Motion and Sediment Transport, Chih Ted Yang, HY10:Oct 73:1679:10067

Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649

Laboratory Study of Degradation and Aggradation, Suryanarayana Bhamidipaty and Hsieh W. Shen, WW4:Nov 71:615:8493

Limit Slope in Uniform Computations, Nagar S. Lakshmana Rao and Kalamear Shridharan, HY1: Jan 70:95:7011

Linear Programming and Channel Flow Identification, William Wen-Gong Yeh and Leonard Becker, HY11:Nov 73:2013:10177

Longitudinal Dispersion in Sinuous Channels, Shoju Fukuoka and William W. Aure, HY1:Jan 73:195:9479

Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB: Aug 73:43

The Measurement of Tidal Water Transport in Channels, R. E. Klein, 12CEC:71:1887

Measurement of Turbulence in Water, Everett V. Richardson and Raul S. McQuivey, HY2:Mar 68:411:5855

Method of Additional Seepage Resistances—Theory and Application, Tatiana D. Streltsova, HY8:Aug 74:1119:10746

Multiple Linearization Flow Routing Model, Thomas N. Keefer and Raul S. McQuivey, HY7:July 74:1031:10668

Numerical Solution of Saint-Venant Equations, Theodor S. Strelkoff, HY1:Jan 70:223:7043

One-Dimensional Equation of Open-Channel Flow, Theodor S. Strelkoff, HY3:May 69:861:6557

On the Concept of Mean Hydraulic Radius, Desmond F. Moore, HY4:July 69:1305:6691

Open-Channel Flow Equations Revisited, Ben Chie Yen, EM5:Oct 73:979:10073

Optimizing of Canal Flow in All Seasons, E. L. Hamilton, OIDS:72:521

Outlet Transitions with Triangular-Shaped Baffles, Lloyd H. Austin, Gaylord V. Skogerboe and Ray S. Bennett, IR3:Sept 71:433:8366

Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB: Aug 73:21

Pattern Of Potential Flow in a Free Overfall, Theodor S. Strelkoff and Mohammad S. Moayeri, HY4:Apr 70:879:7207

Periodic Permanent Roll Waves, Richard R. Brock, HY12:Dec 70:2565:7764

Prediction Equation for Reaeration in Open-Channel Flow, Y. Lam Lau, TN: SA6:Dec 72:1063:9398

Public Participation in Environmental Design of Flood Control Channels, Phillip F. Dunn, Jr., PP3: July 72:363:9051

Reaeration Prediction in Natural Streams, Edward L. Thackston and Peter A. Krenkel, SA1:Feb 69:65:6407

Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1

Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107

Resistance Studies on Smooth Open Channels, V. V. Jayaraman, HY5:May 70:1129:7266

Resistance to Flow over Two-Dimensional Strip Roughness, K. G. Ranga Raju and Ramachandra J. Garde, HY3:Mar 70:815:7181

Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247:10236

Ripple and Dune Phases in a Narrowly Graded Sand, Christopher John Pratt and Kenneth V.H. Smith, HY5:May 72:859:8912

A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130

Self-Aerated Flow Characteristics in Wall Region, Nagar S. Lakshmana Rao and Thimmaiah Gangadharaiah, HY9:Sept 71:1285:8359

Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506

Simulation Accuracies of Gradually Varied Flow, J. Peter Jolly and Vujica Yevjevich, HY7:July 74:1011:10677

Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056

Solution Of Hydraulic Jump In Horizontal Channels By Graphs, Yin Au Yeung, TN: HY8:Aug 72:1465:9083

Solution of Steady Flow in Open Channels by Graphs, Horace A. Johnson, CE:Dec 70:46

Some Factors Affecting Control of Flow in a Large Canal System, Johannes J. DeVries and Jaime Amorocho, IR73:Aug 73:329

Surge Studies for Portage Mountain Tailrace System, Kenneth C. Wilson, PO1:Mar 69:1:6432

Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12: Dec 72:2191:9456

Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581

Transient Control in Lower Sacramento River, Fred J. Gientke, HY3:Mar 74:405:10418

Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628

Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466

Transverse Dispersion in Oscillatory Channel Flow, Peter R.B. Ward, HY6:June 74:755:10589

Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535

Turbulent Diffusion and Schmidt Number of Particles, Michael K. Householder and Victor W. Goldschmidt, EM6:Dec 69:1345:6961

Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468

Unit-Response Method of Open-Channel Flow Routing, Vernon B. Sauer, HY1:Jan 73:179:9499

Water Surface Configuration in Channel Bends, Chin-lien Yen and Ben Chie Yen, HY2:Feb 71:303:7928

Wave Transformation in an Open Channel Transition, Efstathios L. Bourodimos and Arthur T. Ippen, HY5:Sept 68:1317:6128

Open Channels

Longitudinal Dispersion in Open Channels, Attila A. Sooky, HY4:July 69:1327:6697

Openings

Analysis of Shear Walls with Openings, Chiyyarath V. Girijavallabhan, ST10:Oct 69:2093:6824

Design Aids for Beams with Circular Eccentric Web Holes, Richard G. Redwood and Peter W. Chan, ST2:Feb 74:297:10331

Design of Beams With Off-Center Web Openings, Terry R. Douglas and Samuel C. Gambrell, Jr., ST6:June 74:1189:10611

Elastic-Plastic Behavior of Intersecting Shells, Fernand Ellyin, EM1:Feb 69:69:6387

Plastic Behavior of Beams with Reinforced Holes, Judith G. Congdon and Richard G. Redwood, ST9: Sept 70:1933:7561

Stress in Beams with Circular Eccentric Web Holes, Peter W. Chan and Richard G. Redwood, ST1:Jan 74:231:10291

Open Pit Mining

Cumulative Sums Technique: A New Approach to Analyzing Joints in Rocks, Douglas R. Piteau and Lindsay Russell, RM13:72:1

Discrete Element Techniques for Rock Slope Analysis, K. C. Ko, RM13:72:183

A Model Study on the Slope Stability Around an Open Pit, Y. S. Kim and R. R. Dimock, Jr., RM13: 72:201

Open Pit Mine Slope Stability: The Berkeley Pit, William G. Pariseau and Koehler Stout, RM13:72: 367

Rock Stability Analysis at Twin Buttes, Ben L. Seegmiller, RM13:72:511

Some Methods of Monitoring Open Pit Sludge, Bruce A. Kennedy, RM13:72:537

Operating Costs

The Remote Airport: A Study of Access Feasibility, David R. Miller, T. Keith Dellaway and William H.T. Holden, TE1:Feb 74:179:10359

Systems Approach to Petroleum Site Selection, William S. Gaither and John Patrick Sides, WW3: Aug 69:395:6750

Operation and Maintenance

Operation and Maintenance of Campus Bicycle Facilities, John E. Baerwald, BP73:Dec 73:167

Review of Spillway Adequacy at Existing Bureau of Reclamation Dams, Garry H. Austin, IMROD:Sept 73:382

Operations

Operation and Maintenance of Colorado Aqueduct, Henry J. Mills, IR1:Mar 71:203:8007

Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71: 601:8613

Operation and Maintenance of Irrigation and Drainage Systems, Robert L. Taylor, Chmn., IR3: Sept 73:237:10014

Use of Simulation in Airport Planning and Design, Dana E. Low, TE4:Nov 74:985:10954

Operations Research

Calendar-Day CPM, Louis R. Shaffer, CE:Aug 69:65

Mathematical Models of Location: A Review, David H. Marks, Charles S. ReVelle and Jon C. Liebman, UP1:Mar 70:81:7164

Metagame Analysis of Water Resources Conflicts, Keith W. Hipel, R. K. Ragade and Tharakkal E. Unny, HY10:Oct 74:1437:10861

Systems Approach to Power Planning, J. George Thon, HY4:Apr 73:589:9661

Women in Civil Engineering Education, Judith S. Liebman, CEE:Feb 74:1-993

Operators (Mathematics)

Imbedding Technique For Weak-Weak Approximations Of Linear And Nonlinear Operations, J. Tinsley Oden, TN: EM5:Oct 72: 1327:9228

Optical Density

Clarification of Book-Mill Effluent by Enzyme-Alum, Yeun C. Wu, EE3:June 74:541:10573

Optics

Calibration of Wave Recorders by an Optical Method, John A. Charlton, WAVES:Sept 74:247

Photogrammetry and Hydraulic Surfaces, Wolfgang Faig, SU2:Nov 72:145:9337

Optimization

Adaptive Control of Design Codes, Gerald Schorn and Niels C. Lind, EM1:Feb 74:1:10332

Analytically Derived Unit Graph and Runoff, Roger P. Betson and Ralph F. Green, HY6:Nov 68:1489: 6256

Automated Design of Frame Structures, Dag Kavlie and Johannes Moe, ST1:Jan 71:33:7823

Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795

Automated Optimum Design From Discrete Components, Aldo Cella and Robert D. Logcher, EC5:70:259

Automated Optimum Design from Discrete Components, Aldo Cella and Robert D. Logcher, ST1:Jan 71:175:7845

Capital Cost Minimization of Hydraulic Network, Ralf G. Cembrowicz and Joseph J. Harrington, HY3:Mar 73:431:9606

Chance-Constrained Model of System of Reservoirs, Guy L. Curry, James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246

Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578

Cost Optimization of Structural Roof System, Samuel L. Lipson and Alan D. Russell, ST8:Aug 71:2057: 8291

Cost Optimization of Welded Plate Girders, Natarajan Annamalai, Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258

Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050

Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191

Developments in Water System Network Design, V. Raman, SA5:Oct 70:1249:7612

Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470

Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804

Economical Refuse Truck Size Determination, Richard P. Cardile and Francis H. Verhoff, EE3: June 74:679:10612

Economic Design of Low Pressure Air Piping Systems, J. Michael Osborne, EE6:Dec 74:1263: 11031

Efficient Reanalysis of Modified Structurei, Dag Kavlie and Graham H. Powell, ST1:Jan 71:377: 7846

Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202

Experimental Study of the Hydraulic Behaviour of Inclined Groyne Systems, Julio Patriarca Barcelo, 12CEC:71:1021

Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408

Fitting Methods for Conceptual Catchment Models, Richard P. Ibbitt and Terence O'Donnell, HY9:Sept 71:1331:8370

Generic Feed Forward Control of Activated Sludge, John J. Davis, Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803

Interactive Graphics In Civil Engineering Design, Richard T. Douty and Sidney Shore, EC5:70:439

Inverse Problem of Structural Optimization, Jasbir S. Arora, TN: ST11:Nov 74:2355:10904

Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819

Irrigation Engineering and National Goals, William S. Butcher, OIDS:72:13

Least Cost Design of Branched Pipe Network System, Arun K. Deb, EE4:Aug 74:821:10711

Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933

Minimum Weight Design of Hyperbolic Cooling Towers, Phillip L. Gould, ST2:Feb 69:203:6395

Minimum Weight Design of Light Gage Steel Members, Paul A. Seaburg and Charles G. Salmon, ST1:Jan 71:203:7830

Multilake River System Operation Rules, Chin-shu Liu and Allan C. Tedrow, HY9:Sept 73:1369:10021

Multiple Configuration Analysis Via Mixed Method, Ahmed K. Noor, TN: ST9:Sept 74:1991:10775

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827:9304

Needed - A New Outlook for Irrigation, Ellis L. Armstrong, OIDS:72:1

Nonconvex Structural Optimization Problems, George I.N. Rozvany, TN: EM1:Feb 73:243:9528

Now That You Have One, What Have You Done For Your Bikeway Lately?, John M. Freiermuth, BP73:Dec 73:151

On Discrete Structural Optimization, Kenneth F. Reinschmidt, EC5:70:189

Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088

Optimal Conjunctive Use Model for Indus Basin, Mohammad T. Chaudhry, John W. Labadie, Warren A. Hall and Maurice L. Albertson, HY5:May 74:667:10550

Optimal Design for Prescribed Buckling Loads, Kalayya Narayana Murthy and Paul P. Christiano, ST11:Nov 74:2175:10912

Optimal Design of Furrow Length of Surface Irrigation, I-pai Wu and Tung Liang, IR3:Sept 70:319:7543

Optimality of Heuristic Sequencing Technique, Thomas L. Morin, TN: HY8:Aug 74:1195:10748

Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199

Optimal Multifunctional Material Systems, Edward M. Krokosky, EM2:Apr 71:559:8077

Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107:10041

Optimal Policy for Reservoir Operation, Ricardo C. Harboe, Fereidoun Mobasheri and William Wen-Gong Yeh, HY11:Nov 70:2297:7673

Optimal Utilization of Playa Water in Irrigation, Marvin J. Dvoracek and Theodore G. Roefs, OIDS:72:597

Optimization, Akbar R. Tamboli, TB:73:II-14-239

Optimization in Design of Hydraulic Network, Arun K. Deb and Asok K. Sarkar, SA2:Apr 71:141:8032

Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089

Optimization of an Existing Large Complex Drainage System, N. N. Khanal and Robert L. Hamrick, OIDS:72:503

Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650

Optimization of Long-Span Cold-Formed Truss Purlins, Richard T. Douty and James O. Crooker, ST11:Nov 74:2275:10952

Optimization of Multiple Reservoir System, William J. Trott and William Wen-Gong Yeh, HY10:Oct 73:1865:10065

Optimization of Runway Exit Configurations, Everett S. Joline, TE1:Feb 74:85:10350

Optimization of Steel-Building Components, State-of-Art Report 4, Jan Brodka and Josef Wilbik, TB:73:II-14-201

Optimization of Structures, Narbey Khachaturian, TB:73:II-14-233

Optimizing of Canal Flow in All Seasons, E. L. Hamilton, OIDS:72:521

Optimizing the Supply of Inland Water Transport, John F. Hoffmeister, III and Richard de Neufville, WW3:Aug 73:293:9926

Optimum Beam Layout for Large Areas, Paul Grundy, ST8:Aug 71:2085:8304

Optimum Design by Partitioning into Substructures, Uri Kirsch, Max Reiss and Uri Shamir, ST1:Jan 72:249:8645

Optimum Design of Prestressed Plates, Uri Kirsch, ST6:June 73:1075:9777

Optimum Design of Truss Structures For Ultimate Loads, William S. LaPay and George G. Goble, EC5:70:223

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091

Optimum Elastic Design of Redundant Trusses, David Johnson and Derick M. Brotton, ST12:Dec 69:2589:6938

Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638

The Optimum Gravity Dam, Jerome M. Raphael, RCCD:70:221

Ordering Sewer Design Calculations, Paul M. Berthouex, Gary Wagner and Lawrence J.P. Scully, TN: EE6:Dec 74:1303:10978

Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722

Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, S. Hal Iyengar, TB:73:II-14-185

Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615

Properties Of Discrete Optima In Structural Optimization, Aldo Cella, TN: ST3:Mar 72:787:8755

Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73:Ib-9-889

Sequential Stochastic Optimization for Reservoir System, Thomas E. Croley, II, HY1:Jan 74:201:10263

Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106

Slabs with Variable Straight Reinforcement, George I. N. Rozvany and Donald E. Charrett, ST5:May 71:1521:8095

Structural and Foundation Computer Based Designs, Richard F. Harig and Daniel J. McDermott, EC5:70:515

Structural Design for Bounds on Dynamic Response, J.-M. Chern, J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646

Structural Optimization by Inscribed Hyperspheres, Roman Baldur, EM3:June 72:503:8934

Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541:9864

Tower: A Design System For Guyed Towers, Karl L. Reichelt, Daniel M. Brown and John W. Melin, EC5:70:377

Urban Degradation and Building Systems, Murray A. Muspratt, UP2:Sept 73:235:10003

Weight Optimization of Plane Trusses, Samuel L. Lipson and Krishna M. Agrawal, ST5:May 74:865:10521

Optimum Design

Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043:9195

On Adaptive Structural Design, William R. Spillers and Lewis Friedland, ST10:Oct 72:2155:9245

Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403

Optimum Proportions for I-Shaped Beams, Charles G. Schilling, ST12:Dec 74:2385:11007

Probabilistic Analysis and Design of a Retained Wall, Kaare Hoeg and Ramesh P. Murarka, GT3:Mar 74:349:10436
Properties Of Discrete Optima In Structural Optimization, Aldo Cella, TN: ST3:Mar 72:787:8755
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337:9404
Unified Approach to the Theory of Plastic Structures, M. Z. Cohn, Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246

Optimum Development Plans
Optimal Conjunctive Use Model for Indus Basin, Mohammad T. Chaudhry, John W. Labadie, Warren A. Hall and Maurice L. Albertson, HY5:May 74:667:10550

Oregon
Changing Crop Priorities and Drainage Requirements, John C. Nibler and Royal H. Brooks, IRS:Sept 72:25
First National Bank of Oregon, Ormond Robert Berry, TB:73:C-P-258
Hills Creek Dam Seepage Correction, John D. Jenkins and Duane E. Bankofier, PES:72:I-723
How Industry Has Accepted the Oregon State University C.E.C. Construction Program Graduates, Harold D. Pritchett and William T. Peckham, CEE:Feb 74:1-670
Oregon Gets a Segmental Post-Tensioned Bridge, L. F. Pierce, CE:Mar 72:67

Organic Matter
Removal of Organic Matter by Activated Carbon Columns, Foppe B. DeWalle and Edward S.K. Chian, EE5:Oct 74:1089:10867
Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129

Organic Soils
Compaction of Slightly Organic Soils, Arley G. Franklin, Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873
Peat and Muck Drainage Problems, John C. Stephens, IR2:June 69:285:6603
Properties of Slightly Organic Topsoils, Robert D. Holtz and Raymond J. Krizek, CO1:June 70:29:7358

Organic Wastes
Characterization of Time-Varying Organic Loads, Alfred T. Wallace and Donald M. Zollman, SA3:June 71:257:8167

Organizations
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
Management Structure for Irrigation, Richard A. Smith, IR4:Dec 70:475:7722
More Efficient Local Rural Road Administration, William D. Berg, TE4:Nov 74:975:10942
Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71:601:8613

Organization Theory
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9

Organizing
Goals Established for ASCE Activities by the Committee on Society Objectives, Planning and Organization, Longino A. Woodman, Chmn., CE:Feb 74:39

Orientation
Comparison of Analytical Relative-Orientation Methods, Santosh K. Mahajan and Singh Vijay, SU1:July 72:73:9056
Explicit Approach to Exterior Orientation, Santosh K. Mahajan, SU2:Nov 71:251:8518
Lateral Refraction in Proximity of Structures, Ron K.H. Adler and Haim B. Papo, SU1:Oct 69:93:6846
New Procedure for Numerical Relative Orientation, Santosh K. Mahajan, SU2:Nov 74:155:10962

Orifices
Cavitation and Size Scale Effects for Orifices, J. Paul Tullis and Rangachari Govindarajan, HY3:Mar 73:417:9605
Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678
Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465
Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11:Nov 72:2015:9370

Orographic Clouds
Orographic Cloud Seeding as a Water Resource, Charles F. Chappell, IRS:Sept 72:389

Orthogonal Functions
Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617

Orthogonality
Behavior Of Porous Bed Near Flow Singularity, C. Samuel Martin, SM2:Feb 71:393:7935

Orthotropic Plate
Buckling of Continuous Circular Plates, A. S. J. Swamidas and Vincent X. Kunukkasseril, EM4:Aug 73:835:9900
Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
Frequency Analysis of Tapered Orthotropic Plates, Jayaraman Ramachandran, EM1:Feb 72:1:8696
Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271
Linear Theory of Orthotropic Cylindrical Shells, Osman A. Marzouk and George Abdel-Sayed, ST11:Nov 73:2287:10143
Shear-Flexible Orthotropic Plates Loaded in Plane, Charles W. Bert and Shyming Chang, EM6:Dec 72:1499:9450

Orthotropism
Buckling of Light-Gage Corrugated Metal Shear Diaphragms, John T. Easley and David E. McFarland, ST7:July 69:1497:6683
Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808

Oscillations
The Added Mass of a Ship in Longitudinal Oscillation, Jean Sommet, BMS:71:174
Decay of Mass Oscillations in Rectangular Basins, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY1:Jan 74:119:10261
Dynamic Moduli and Damping Ratios For Soft Clay, William D. Kovacs, H. Bolton Seed and Clarence K. Chan, SM1:Jan 71:59:7813
Dynamic Prestraining of Dry Sand, Vincent P. Drnevich and Frank E. Richart, Jr., SM2:Mar 70:453:7160
Elastic Characteristics of Mooring Lines, Basil W. Wilson, BMS:71:80
Elastic Characteristics of Moorings, Jean Sommet, BMS:71:93
Full Scale Observation of the Behavior of Moored Ships, Basil W. Wilson, BMS:71:117
Full Scale Observation of the Behavior of Moored Ships, John T. O'Brien, BMS:71:130

Full Scale Observation of the Behavior of Moored Ships, Robert C. H. Russell, BMS:71:133
Hydrodynamic Force Coefficients for Oscillatory Flow, George Morgan, WAVES:Sept 74:879
Long-term Pressures Effects on Shear Modulus of Soils, Sherif S. Afifi, SM10:Oct 71:1445:8475
The Moored Ship as an Oscillating System, Robert C.H. Russell, BMS:71:48
The Moored Ship as an Oscillating System - The Non-linear Problem, Antonio G. Portela, BMS:71:67
On Breaking of Internal Gravity Waves, W. O. Criminale, Jr., ISSF:Aug 72:175
Oscillations in Surge Tanks, Mohammad Akram Gill, HY10:Oct 74:1369:10891
Physical Model of the Moored Ship as an Oscillating System, Fernando Vasco Costa, BMS:71:53
Probabilistic Aspects of Seiche Action on Ships, Francis Biesel, BMS:71:27
Seasonal Deformation of 2-Mile Straight Line, Joseph J. Spranza and Amos M. Nur, SM12:Dec 71:1623:8586
Seiches and Other Causes of the Motion of Ships Already Moored, Basil W. Wilson, BMS:71:1
Stability of Oscillations in Simple Surge Tank, Eugen Ruus, HY5:Sept 69:1577:6773
Surface Oscillations in a Water Tank Caused by a Submerged Jet, Juan B. Font, Omar Azpurua and Flora Aranguren, 12CEC:71:2243
Surge in the Southeast Basin, Long Beach Harbor, Calif., Basil W. Wilson, James A. Hendrickson and Yuan Jen, CE13:72:III-2617
Tsunami-Responses of San Pedro Bay and Shelf, Calif., Basil W. Wilson, WW2:May 71:239:8107
Use of Models for the Study of the Behavior of Moored Ships, Francis Biesel, BMS:71:136

Oscillators
Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73:715:9918
Tsunami-Responses Of San Pedro Bay And Shelf, Basil W. Wilson, CEO-II:70:1099

Osmosis
Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Phosphate Removal: Summary of Papers, Milton Spiegel and Tom H. Forrest, SA5:Oct 69:803:6807

Outfall Sewers
Arrested Wedge in Circular Tube, James J. Sharp and Chung-su Wang, TN: HY7:July 74:1085:10640
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
Constructing an Ocean Outfall, Edward B. Fitzpatrick, Jr. and Wallace J. Beckman, CE:Sept 74:83
Diffusion of Sewage Effluent from Ocean Outfall, Robert E. Stewart, Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, SA4:Aug 71:485:8340
DO-Sag in Oscillating Flow, Wen-Hsiung Li and Michael Edwin Kozlowski, EE4:Aug 74:837:10713
Environmental Design for Istanbul Sewage Disposal, Charles G. Gunnerson, EE1:Feb 74:101:10343
Natural Virus Inactivation Processes in Seawater, Hillel I. Shuval, SA5:Oct 71:587:8427
St. Louis Cleans up the Mississippi, CE:May 72:61
Trapping of Outfall Constituents behind Sills, T. Carstens and A. Sjoberg, 12CEC:71:1917
Use of Mixing Tubes on Marine Outfalls, Richard Silvester and Mana Patarapanich, CE13:72:III-2171
Vancouver Uses Innovative Ways for Placing Large Submarine Pipelines, Doug McKay, Don Gillis and Robin Durward, CE:Oct 74:74

Outflows
Effect Of Axial Flow On Preforated Pipe Outflow, Fred J. Molz and Reed A. Edwards, TN: HY4:Apr 72:747:8803

Outlets
Behavior of Buoyant Jet in Calm Fluid, Habib O. Anwar, HY4:July 69:1289:6688
Float Valve Provides Variable Flow Rates at Low Pressures, John L. Merriam, IR73:Aug 73:385
Performance Characteristics of Siphon Outlets, Alan F. Babb and William K. Johnson, HY6:Nov 68:1421:6237
Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680
Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244
Unsteady Spread of Buoyant Surface Discharge, James J. Sharp, HY9:Sept 71:1471:8396

Outlet Works
Dworshak Dam Spillway and Outlets Hydraulics Design, Albert L. McCormmach, HY4:July 68:1051:6045
Flow Through Spillway Flip Bucket, Charles W. Lenau and John J. Cassidy, HY2:Mar 69:633:6478

Overconsolidation
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197

Overfalls
Free Overfall As Flow Measuring Device, Sebastian W. Bauer and Walter H. Graf, IR1:Mar 71:73:7987
Free-Vortex Theory Applied To Free Overfalls, Kamil H.M. Ali and Ann Sykes, TN: HY5:May 72:973:8864
Method to Solve Cubic Equation for Depth Below Overfall, Sat Dev Khanna, TN: IR1:Mar 74:103:10383
Pattern Of Potential Flow in a Free Overfall, Theodor S. Strelkoff and Mohammad S. Moayeri, HY4:Apr 70:879:7207

Overflow
Flow of Layered Fluid Over Broad Crested Weir, Ian R. Wood and K. K. Lai, HY1:Jan 72:87:8649
Vortex Suppression in Stilling Pond Overflow, Y. R. Reddy and John Pickford, HY11:Nov 74:1685:10969

Overflows
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626
Performance and Design of Labyrinth Weirs, Nessim Hay and Geoffrey Taylor, HY11:Nov 70:2337:7691
Stormwater Treatment: Four Case Histories, John A. Lager, CE:Dec 74:40

Overland Flow
Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9:Sept 71:1367:8373
Obtaining Overland Flow Resistance by Optimization, David L. Schreiber and Donald L. Bender, HY3:Mar 72:429:8773
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73:771:9733
Rainfall Excess Model from Soil Water Flow Theory, Roger E. Smith and Donald L. Chery, Jr., HY9:Sept 73:1337:9990
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Variational Approach to Non-Darcy Flow, John A. McCorquodale, HY11:Nov 70:2265:7694
Volume of Snowmelt Intercepted by Logging Roads, Edward R. Burroughs, Jr., Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770

Overloads

Boston Collapse, William A. Litle, STF:73:99

Large Diameter Pipe Under Combined Loading, Jack G. Bouwkamp and R. M. Stephen, TE3:Aug 73: 521:9907

Overpasses

Airport Overpass is technical esthetic winner, Yue-Chyou Yang and Kam-Shing Lo, CE:July 74:50

Overpressure

Analysis of Tunnel Liner-Packing Systems, William P. Dawkins, EM3:June 69:679:6622

Overtopping

Analytical Approach on Wave Overtopping on Levees, Hiroyoshi Shi-igai and Tsugio Kono, 12CEC:71:563

Reevaluating Spillway Adequacy of Existing Dams, Russell W. Revell, Chmn., HY2:Feb 73:337:9571

Relations Between the Run-Up and Overtopping of Waves, Shoshichiro Nagai and Akira Takada, CE13:72:III-1975

Wave Transmission by Overtopping, Ralph H. Cross, III and Charles K. Sollitt, WW3:Aug 72:295:9137

Oxidation

Evaluation of Nitrification in Streams, Chester T. Wezenak and John J. Gannon, SA5:Oct 68:883: 6159

Evaluation of Some Stabilization Ponds in India, R. H. Siddiqi and B. K. Handa, SA1:Feb 71:91:7912

Hydrolysis of Lipids in Wastewater, Gary R. Kramer, SA5:Oct 71:731:8418

Modern Concept of Disinfection, Shih L. Chang, NSCD:71:635

Oxidation and Heave of Black Shale, Robert M. Quigley, James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703

Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701

Oxidation Lagoons

Faecal Bacterial Kinetics in Stabilization Ponds, Gerrit v.R. Marais, EE1:Feb 74:119:10323

Sulfide Production in Waste Stabilization Ponds, Earnest F. Gloyna and Ernesto Espino, SA3:June 69:607:6637

Oxygen

Gas Transfer Kinetics of Pure Oxygen System, James A. Mueller, Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792

Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701

Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841

Oxygenation

Aerator Performance in Natural Streams, Shaw L. Yu, SA5:Oct 70:1099:7601

Algal Reactor For Life Support Systems, Gedalia Shelef, William J. Oswald and [illegible] H. McGauhey, SA1:Feb 70:91:7105

Atmospheric Oxygenation in a Simulated Stream, Willie P. Isaacs and Anthony F. Gaudy, Jr., SA2: Apr 68:319:5905

Design of U-Tube Aeration Systems, Richard E. Speece and Rudolph Orosco, SA3:June 70:715:7348

Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, Donald C. Raney and Terry G. Arnold, PO1:May 73:1[illegible]:9707

Estuarine Oxygen Resources-Photosynthesis and Reaeration, Thomas E. Bailey, SA2:Apr 70:279: 7215

Evaluation of Some Stabilization Ponds in India, R. H. Siddiqi and B. K. Handa, SA1:Feb 71:91:7912

Instream Aerators for Polluted Rivers, William Whipple, Jr., Francis P. Coughlan, Jr. and Shaw L. Yu, SA5:Oct 70:1153:7631

Iron Removal Using Magnesium Oxide, John T. O'Connor and Barrett E. Benson, SA6:Dec 70: 1335:7740

Monitors Solve Fish-kill Mystery, Bruce R. Barrett, CE:Jan 71:40

Oxidation of Sulfide by O_2: Catalysis and Inhibition, Kenneth Y. Chen and J. Carrell Morris, SA1:Feb 72:215:8710

Oxygen Activated Sludge Selected by Philadelphia, Michael D. Nelson, CE:Apr 74:42

Oxygen Relationships in Intermittent Sand Filtration, Albert B. Pincince and Jack E. McKee, SA6:Dec 68:1093:6295

Oxygen Sewage-Treatment Process Handles Shock Loads, Cuts Odors, R. J. Gozikowski and R. H. Oeler, CE:Aug 74:49

Oxygen Transfer from Falling Water Droplets, Charles E. Carver, Jr., SA2:Apr 69:239:6504

Philadelphia Pilots--Builds Oxygen Activated Sludge, Carmen F. Guarino, Michael D. Nelson and Allan B. Edwards, EE4:Aug 74:919:10722

Pitfalls in Parameter Estimation for Oxygen Transfer Data, William C. Boyle, Paul M. Berthouex and Thomas C. Rooney, EE2:Apr 74:391:10451

Simulation of Water Quality in Tarawera River, J. Christopher Rutherford and Michael J. O'Sullivan, EE2:Apr 74:369:10461

Surface Aeration Cuts Costs of Waste-Water Treatment Plant, Kenneth D. Miller, CE:Aug 71:41

Transfer of Oxygen in Aqueous Solutions, Edwin L. Barnhart, SA3:June 69:645:6639

Oxygen Consumption

Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841

Oxygen Utilization in Bacterial-Protozoan Community, Raymond P. Canale and Frank Y. Cheng, EE1:Feb 74:171:10314

Pitfalls in Parameter Estimation for Oxygen Transfer Data, William C. Boyle, Paul M. Berthouex and Thomas C. Rooney, EE2:Apr 74:391:10451

Oxygen Content

Mathematical Model of Mixing in New Haven Harbor, Michael D. Disko, Robert A. Norris and Francis C. Lutz, 12CEC:71:1847

Variable Respiration in Aquatic Plant Communities, Archie J. McDonnell and Dennis W. Weeter, SA2: Apr 72:325:8852

Oxygen Demand

Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296

Oxygen Sag

Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045

Oxygen Transport Mechanisms

Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938

Oysters

Contamination of Oysters by Pesticides, Donald R. Rowe, Larry W. Canter and J. W. Mason, SA5:Oct 70:1221:7619

Ozone

A New Analytical Method for Ozone, R. F. Layton and Riley N. Kinman, NSCD:71:285

Pakistan

Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72: 115

Optimal Conjunctive Use Model for Indus Basin, Mohammad T. Chaudhry, John W. Labadie, Warren A. Hall and Maurice L. Albertson, HY5: May 74:667:10550

Some Construction Aspects of Tarbela Dam, Morgan H. Thompson, CO3:Sept 74:247:10799

Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265

Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514

Pallets
Introduction to Section II: Innovative Transportation Prototypes, Paul L. Sitton, UTI:71:79
Pallet System for Integrating and Automating Urban Transportation, David Gordon Wilson, UTI:71:81
Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900

Panama
A Study of a Slide-prone Clay in Panama, Ralph R. W. Beene, 4PCSM:71:II129

Panama Canal
Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106
Study of Clay Shale Slopes, Don C. Banks, RM13:72:303

Panels
Influence of Joints in Panelized Structural Systems, Eric F.P. Burnett and R. Clement S. Rajendra, ST9:Sept 72:1943:9207
Local Failure of Plastic-Foam Core Sandwich Panels, Billy J. Harris and Gene M. Nordby, ST4:Apr 69:585:6494
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870

Paper Industry
Recent Paper Industry Waste Treatment Systems, William J. Gillespie, SA2:Apr 70:467:7234

Paper Mills
Costs and Benefits Reating to Paper Mill Waste Treatment, Arthur Lesser, Jr. and Michael A. Tirabassi, EI1:Jan 74:61:10279
Field Consolidation of High Ash Papermill Sludge, Robert P. Vallee and Orlando B. Andersland, GT3:Mar 74:309:10431
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72:927:9443

Parabolas
Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
Lowest Natural Frequency Of Clamped Parabolic Arcs, TN: ST1:Jan 72:407:8619

Parabolic Antennas
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178
Minimum Weight Design of Enclosed Antennas, Mehdi S. Farghamee, ST6:June 69:1139:6592

Parabolic Bodies
Experimental Study of Lateral Buckling of Arches, Frank J. Tokarz, ST2:Feb 71:545:7893
Large Deflection of Shallow Paraboloid Shells, Neng-Ming Wang, Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929
Lateral Buckling of Parabolic Arches with Tilting Loads, Shyam N. Shulka and Morris Ojalvo, ST6:June 71:1763:8209
Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72:1161:8922

Parallel Processors
Parallel Processing Approach to Bridge Planning, Andrew K.C. Wong and Tung Au, ST1:Jan 71:115:7822

Parametric Hydrology
Linear Programming and Channel Flow Identification, William Wen-Gong Yeh and Leonard Becker, HY11:Nov 73:2013:10177
Link Between Stochastic and Parametric Hydrology, Rafael G. Quimpo, HY3:Mar 73:461:9602
A Proposed Watershed Retention Function, Willard M. Snyder, IR1:Mar 71:193:7979

Parking Areas
The Bicycle Locker - The Urban Solution, William Hepler, BP73:Dec 73:507
Bicycle Theft and Registration - An Overview, Arthur R. Daniel, Jr., BP73:Dec 73:492
Bikeway Planning and Implementation - The Maryland Experience, Paul R. Farragut, BP73:Dec 73:288
Chicago Bikeway Progress Report, John N. LaPlante, BP73:Dec 73:307
Estimating Potential Bicycle Use and Public Investment, Carl E. Ohrn, BP73:Dec 73:582
Future National Parks for Pedestrians and Bicyclists, Wm. H. Claire, BP73:Dec 73:530
Hydrology of Porous Pavement Parking Lots, Thomas J. Jackson and Robert M. Ragan, HY12:Dec 74:1739:11010
Investing in Urban Bicycle Facilities: How Much? What Type? Where?, Richard C. Podolske, BP73:Dec 73:596
Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72:769:9355
Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315
Recent Progress in Dual-Mode Bicycle Transportation, David M. Eggleston, BP73:Dec 73:616
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932
UCSB Bikeways - Notes and Comments, Peter Chapman, BP73:Dec 73:672

Parking Facilities
AMP Centre, Peddle, Thorp and Walker, TB:73:C-P-402
Athens Tower, A. Albertis-TH. Dimopoulos S.A., TB:73:C-P-502
Auto Race Facility: Tracks for Indianapolis, Grand Prix, Dragsters-All in One, George J. Mim Mack and Karl B. Brown, CE:May 71:39
Balanced Highway-Airport Design, Henry K. Evans, TE1:Feb 69:213:6420
Behavioral Evaluation of Pedestrian Countermeasures, Wallace G. Berger, BP73:Dec 73:112
The Bicycle Locker - The Urban Solution, William Hepler, BP73:Dec 73:507
Cables Support Office Building, Bogue B. Babicki, CE:Oct 71:64
Clinton Square, Welton Becket and Associates, TB:73:C-P-338
Express Bus Mass Transit, Joseph Barnett, TE2:May 70:133:7256
Hampshire Plaza, Welton Becket and Associates, TB:73:C-P-342
Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
The Louisiana Superdome; World's Most Versatile Building, Mark C. Carrigan, CE:Nov 74:50
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72:769:9355
M.L.C. Centre, Seidler & Associates, TB:73:C-P-426
Multi-level Parking Structure, Elwin M. Pell, CE:Feb 69:49
Nauru House, Perrott, Lyon, Timlock & Kesa, TB:73:C-P-428
New Concepts in Urban Parking, John G. Schoon and Herbert S. Levinson, TE3:Aug 74:611:10731
Novel Features on Lindenwold Line, Richard E. Pinkham, TE2:May 72:367:8892
One Astor Plaza, Kahn & Jacobs, TB:73:C-P-348
Operation and Maintenance of Campus Bicycle Facilities, John E. Baerwald, BP73:Dec 73:167
Parking Design and Requirements for High Rise Building, State-of-Art Report 11, Richard C. Rich, TB:73:Ia-1-225

Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728
Planning for Campus Traffic and Parking, Joseph W. Guyton and George L. Reed, TE1:Feb 71:63:7880
Planning for Memphis Medical Center Traffic and Parking, Wm. H. Claire and Randall A.P. Johnson, TE1:Feb 71:51:7882
Research Needs in Air Transportation by the Committee on Research of the Aero Space Division, Jack E. Snell, Chmn., TE1:Feb 70:45:7091
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932
Tampa International Airport: Model for the Jumbo-Jet Age, George S. Jenkins, CE:Oct 71:68
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
Transportation Access to Special Generators, Frederick J. Wegmann, John Ojo and Michael Kennedy, TE3:Aug 74:643:10728
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
UCSB Bikeways - Notes and Comments, Peter Chapman, BP73:Dec 73:672
Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
Valley Center, Welton Becket and Associates, TB:73:C-P-318
Westchester County Courthouse, Welton Becket and Associates, TB:73:C-P-302
What Have Transit Demonstrations Really Shown?, Calvin O. Smith, TE2:May 71:325:8097
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394

Parks

Bikeway Planning/Construction - A PR Tool, John F. Graham, BP73:Dec 73:200
Bikeways, Bikeway Planning and Bicycling, Keith Kingbay, BP73:Dec 73:526
Bikeways in National Capital Parks, Thomas DeHaven, BP73:Dec 73:547
Biking and Hiking Through Red Tape, Margret M. Rimmer, BP73:Dec 73:9
Chicago Bikeway Progress Report, John N. LaPlante, BP73:Dec 73:307
Chicago Experience, Joseph P. McDermott, BP73:Dec 73:172
Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
Expo '74 Rejuvenates Downtown Spokane, Virginia Fairweather, CE:June 74:48
Future National Parks for Pedestrians and Bicyclists, Wm. H. Claire, BP73:Dec 73:530
Gateway National Recreation Area, Jane A. Henzi, CEWAU:74:69
Medal of Honor for City Planning -- Introduction, M. D. Morris, CEWAU:74:65
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315
South Florida Training Runway and Everglades National Park, H. C. Lamberton, Jr., CE:Apr 70:53
A Study in Community Support: The Wheat Ridge Story, Boyd A. Kraemer, BP73:Dec 73:285
The Tempe Bikeway Study, Elizabeth A. Drake, BP73:Dec 73:297
Toronto Converts Decaying Waterfront into Parks, Jack M. Jones, CE:Sept 73:74
William Fitts Ryan Award Citation, Thomas J. Colston, CEWAU:74:67

Particle Density (Concentration)

Coagulation of Iron Oxide with Alum, Kamlesh K. Jain, Kun Li and Robert R. Rothfus, EE4:Aug 73:411:9945

Particles

Atmospheric diffusion and deposition of Particulate Matter, Robert W. Cleary, Donald Dean Adrian and Richard J. Kinch, EE1:Feb 74:187:10344
Effect of Particle Characteristics on Wave Velocity, Raymond J. Krizek, Francis G. McLean and Max W. Giger, TN: GT1:Jan 74:89:10254
Particle Velocity Measurements with a Laser Device, C. A. Greated and Norman B. Webber, 12CEC:71:1951

Particle Size

Particle Size Distribution of Soils, J. Macneil Turnbull, TN: SM6:Nov 70:2171:7646
Particle Size of River Sediments, George Fleming and Thomas Poodle, HY2:Feb 69:431:7068

Particulate Composites

Indirect Determination of In Situ Stress Ratios in Particulate Materials, Geoffrey E. Blight, EFSE:Aug 74:350
Strain Rate Effects in Particulate-Filled Epoxy, Larry W. Oline and Russell Johnson, EM4:Aug 71:1159:8314

Passenger Terminals

Design of Pedestrian Facilities for the Washington Metro, Albert J. Roohr, MTI:May 72:159
Passenger Design Standards for Bay Area Rapid Transit Stations, Wilmot R. McCutchen, MTI:May 72:197
People Considerations at Newark Airport, John P. Veerling, MTI:May 72:243
People Handling Systems at Tampa International Airport, Marjorie Brink, MTI:May 72:223
Potential Applications of People Mover Systems, Herbert S. Levinson, MTI:May 72:281
Sizing Pedestrian Queueing Areas, Peter A. Fausch, MTI:May 72:113
Staging of Improvements to Air Transport Terminals, Angus J. McKenzie, Jack W.E. Huggett and Kenneth W. Ogden, TE4:Nov 74:855:10920
Tampa International Airport: Model for the Jumbo-Jet Age, George S. Jenkins, CE:Oct 71:68
Traffic and Service Characteristics of Pedestrians in Terminals, John J. Fruin, MTI:May 72:91
Transportation Within Airports, Howell H. Herbert, TE2:May 69:259:6536
Variable Speed Walkways, Ralph W. Blevins, Victor J. Dietz and Richard D. Burson, MTI:May 72:347

Passenger Transportation

Alternative Paths to Guideway Transportation, William F. Hamilton, UTI:71:385
Architectural Barriers and the Problems of the Handicapped, Edward H. Noakes, MTI:May 72:51
Assessing the Prospects of Current Transit Proposals, Martin Wohl, UTI:71:43
The Basic Inadequacy of Conventional Urban Transportation Modes, Ben Alexander, UTI:71:59
Behavior and Transit Vehicle Design, Robert Lepper, MTI:May 72:37
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
The Bicycle as It Relates to the Energy Crisis, Nina D. Dougherty, BP73:Dec 73:331
Bicycles for the Human Environment: New Developments at the U.S. Department of Transportation, Benjamin O. Davis, Jr., BP73:Dec 73:30
Bikeways - The Federal Role, Julian Rhinehart, BP73:Dec 73:13
Buses Get Exclusive Use of Freeway Median, Marvin C. Gersten and Jeanine M. Kahan, CE:July 70:68
Carpools - the Underutilized Mode, Lew Pratsch, CE:Jan 74:49
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
Dallas/Fort Worth's AIRTRANS: model for future PRT systems, Dennis M. Elliott, CE:July 74:70
Dallas-Ft. Worth: World's Largest, Best Planned Airport, Eugene E. Dallaire, CE:July 73:53

Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4: Nov 72:807:9320
Demand Responsive Transportation Systemp, Daniel Roos, UTI:71:123
Demand Responsive Transportation Systems, Daniel Brand, UTI:71:327
Design of Pedestrian Facilities for the Washington Metro, Albert J. Roohr, MTI:May 72:159
Design of Pedestrian Facilities for the Washington Metro, Melvin Siegel, BP73:Dec 73:420
Design Requirements for Safer Highway Bridge Rails, Robert M. Olson, Edward R. Post and Don L. Ivey, TE2:May 71:291:8125
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Environmental Factors in Passenger Terminal Design, John J. Fruin, TE1:Feb 72:89:8734
Estimating Potential Bicycle Use and Public Investment, Carl E. Ohrn, BP73:Dec 73:582
External Transportation, State-of-Art Report 9, Roger M. Seitz, TB:73:Ia-1-211
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923
Goals and Objectives, Elizabeth J. McLean and Martin E. Goldsmith, MTI:May 72:267
Heuristic Scheduling Procedures for PRT System, Patrick R. Esposito, TE4:Nov 74:845:10910
Introduction to Section III: Analyzing Innovative Transportation Alternatives, Daniel Brand, UTI:71:185
Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
The Modern Way to Operate Suburban Rail Service, Robert Schumacher, TE4:Nov 70:615:7707
The Morgantown Personal Rapid Transit Project, Bernard J. Vierling, BP73:Dec 73:483
Moving Walks, Ralph W. Blevins, BP73:Dec 73:463
Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502
Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382
No Wait Nonstop Pneumatic Tired Transit System, Vincent H. Larson, TN: TE1:Feb 72:161:8689
Passenger Design Standards for •Bay Area Rapid Transit Stations, Wilmot R. McCutchen, MTI:May 72:197
Potential Applications of People Mover Systems, Herbert S. Levinson, MTI:May 72:281
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571:9960
Prospects for Bicycle Transportation, Jason C. Yu, BP73:Dec 73:645
Public and Legislative Support for Bikeways, John Auerbach, BP73:Dec 73:20
Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487
Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351:8888
Recent Progress in Dual-Mode Bicycle Transportation, David M. Eggleston, BP73:Dec 73:616
Research Needs in Air Transportation by the Committee on Research of the Aero Space Division, Jack E. Snell, Chmn., TE1:Feb 70:45:7091
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
The Role of VTOL Aircraft in Urban Mass Transportation, F. N. Piasecki, NA:Mar 71:85
Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379
Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750
Specialization of Urban Transportation Systems, Clark Henderson, UTI:71:405
Transit Marketing in Chicago, George Krambles, TE2:May 71:361:8134
Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
Transportation Education and Research: A Multidisciplinary Approach, C. Michael Walton and William Ronald Hudson, CEE:Feb 74:1-200
Transportation Innovation and the Manufacturer, Richard H. Shackson, UTI:71:367
Transportation Innovation: Making It Profitable, C. Wade Tambor, UTI:71:421
Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955
Variable Speed Walkways, Ralph W. Blevins, Victor J. Dietz and Richard D. Burson, MTI:May 72:347

Passenger Vehicles
Carpools - the Underutilized Mode, Lew Pratsch, CE:Jan 74:49
Selected Bus Demonstration Projects, Louis J. Pignataro, John C. Falcocchio and Roger P. Roess, TE3:Aug 70:251:7454

Passive Pressure
Dynamic Passive Earth-Pressure Problem, Ali Sabzevari and Arsalan Ghahramani, GT1:Jan 74:15:10285

Pathogenic Bacteria
Enteric and Pathogenic Bacteria Dieoff Effects by Algae, E. M. Davis, M. Pen and Earnest F. Gloyna, NSCD:71:539
Modern Concept of Disinfection, Shih L. Chang, NSCD:71:635

Pavement Bases
Need for Estimated Cement Requirements for Stabilizing Lateritic Soils, Samuel A. Ola, TE2:May 74:379:10534
Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
Subgrade Strengthening of Existing Airfield Runways, Quentin L. Robnett, TE2:May 73:267:9724

Pavements
Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE1:Feb 72:37:8699
Airfield Pavement Systems, Edward L. Murphree, Ronald W. Woodhead and Robert H. Wortman, TE3:Aug 71:389:8283
Air Force Pavement Design System Concepts, B. Frank McCullough and Morris W. Pearson, TE4: Nov 74:921:10929
Asphalt Paving Technology-Some Current Developments and Trends, Louis L. Monismith, CE:Aug 69:45
Atlanta's Instant Runway, Robert W. Richards, TE3: Aug 71:491:8306
Bonded Concrete Overlays, Raouf Sinno and Howard L. Furr, ST8:Aug 70:1627:7450
Book Review: Design of Functional Pavements, Ernest J. Barenberg, CE:Apr 73:40
Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812
Centrifugal Method of Mixing Soil with Stabilizer, Nam P. Suh and R. S. Lee, GT3:Mar 74:295:10411
Construction and Maintenance, Howard Gregg, BP73:Dec 73:155
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1: Feb 72:17:8695
Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918

Dangers of Parallel-Bar Sewer Grates to Bicyclists, David Whitman, BP73:Dec 73:383

Defining the Slip Resistance of Surfaces Used for Pedestrian Traffic, Robert D. Doering, BP73:Dec 73:261

Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785:10154

Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72:1005:9363

Estimation of Climatic Parameters for Frost Depth Prediction, Lyle K. Moulton and James H. Schaub, TE4:Nov 69:605:6872

Estimation of Pavement Surface Freezing Indices, Lyle K. Moulton and James H. Schaub, TE4:Nov 69:587:6871

Factors Affecting Performance of Pavement Systems, William Ronald Hudson, B. Frank McCullough and Fred N. Finn, TE3:Aug 69:505:6740

Fatigue Concepts for Concrete Airport Pavement Design, Robert G. Packard, TE3:Aug 74:567:10702

Finite Element Analysis of Slabs on Elastic Solids, Yang H. Huang, TE2:May 74:403:10535

Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921

Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139

Implications of Using Layered Theory in Pavement Design, John P. Nielsen, TE4:Nov 70:495:7662

In-Situ Investigation Using SH-Waves, Marcis Kurzeme, SM2:Feb 71:341:7918

Insulated and Improved Sub-grades for Eliminating Frost Heave, Edward P. Keiner, Jr., CE:Feb 69:38

Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376

Lime-Treated Soils for Pavement Construction, Marshall R. Thompson, HW2:Nov 68:191:6249

Maintenance of Bicycle Facilities - An Overview, Thomas A. Gawley and Walter H. Kraft, BP73:Dec 73:143

Making Highways Skid-proof, John L. Beaton, CE: Mar 71:42

Modern Design of Concrete Pavements, Phil Fordyce and W. A. Yrjanson, TE3:Aug 69:407:6726

Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63

New Paving Concept for Newark Airport, Nai C. Yang, CE:Sept 70:95

Optimal Selection of Flexible Pavement Components, Salim S. Hejal, Thomas R. Buick and Joseph C. Oppenlander, TE2:Feb 71:1:7877

Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722

Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82

Pavement Design and Staging for Mayan Roads, Allen F. Lubina and Robert N. Panfill, TE4:Nov 71:651:8516

Pavement Evaluation and Design for Jumbo Jets, Bernard A. Vallerga and B. Frank McCullough, TE4:Nov 69:639:6895

Pavement Evaluation by Wave Propagation Method, Keshavan Nair, TE1:Feb 71:83:7900

Pennsylvania Tries Mastic Asphalt Pavement, Dale B. Melott, CE:June 73:56

Predicting Pavement Performance, Robert E. Boyer and Milton E. Harr, TE2:May 74:431:10533

Prismatic Solid Analysis of Pavement Structures, Raman Pichumani and John E. Crawford, GT74: June 74:303

Progress in Asphalt Pavement Thickness Design, Alfred W. Maner, CE:Mar 70:39

Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59

Repeated Load Testing of a Granular Material, Stephen F. Brown, GT7:July 74:825:10684

Shrinkage and Shrinkage Restraints in Concrete Pavements, Shigeyoshi Nagataki, ST7:July 70:1333:7402

Significance of Variably Confined Triaxial Testing, John J. Allen and Marshall R. Thompson, TE4:Nov 74:827:10911

Sprayed Asphalt Pavements for Water Harvesting, Lloyd E. Myers, Gary W. Frasier and John R. Griggs, IR3:Sept 67:79:5413

Sprinkle Treatment Increases Highway Skid Resistance, George W. Maupin, Jr., CE:Feb 72:51

Stabilized Base for Residential Streets, Wesley J. Gallup, CE:May 69:40

Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19

Stochastic Model for Analysis of Pavement Systems, Hani Findakly, Fred Moavenzadeh and Joseph Soussou, TE1:Feb 74:57:10358

A Systems Analysis Method For Pavement Structures, William Ronald Hudson, B. Frank McCullough and Frank H. Scrivner, EC5:70:95

Theory of Brittle Fracture Applied to Soil Cement, Kalankamary P. George, SM3:May 70:991:7301

Trends in Airport Planning, Reginald J. Sutherland, ASC73:Mar 73:193

Water and Pavement Performance, Harry R. Cedergren and Kneeland A. Godfrey, Jr., CE:Sept 74:78

Wearability of PC Concrete Pavement Finishes, Alvin H. Meyer, TE3:Aug 74:719:10736

Paving

Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138

Flexible Pavement for Tomorrow's Major Airports, Donald N. Brown, George M. Hammitt, II and Donald M. Ladd, TE4:Nov 69:617:6874

Peak Discharge

Effect of Urbanization on Storm Water Peak Flows, Pedro C.C. DaCosta, SA2:Apr 70:187:7198

River Regulation as Influence on Peak Discharge, Alan F. Huggins and Martin R. Griek, HY7:July 74:901:10671

Peaking Capacities

Mount Hope Project — Studies of an Underground Site for Developing Peaking Capacity, Robert C. Richert, EPCE:Aug 74:265

Peak Power

Control of Ice Jams at Barrett Chute G.S., David R. Townsend, PO3:July 71:597:8244

Peak Runoff

Surface Runoff Hydrograph Equation, Vulli L. Gupta and Syed A. Moin, HY10:Oct 74:1353:10880

Peat

Analyses and Performance of a Dike on Fibrous Peat, Igor Holubec and Ronald E. Langston, PES: 72:I-415

Design of Embankments on Peat, Gerald P. Raymond, GT74:June 74:143

Performance of Embankments Constructed Over Peat, William G. Weber, Jr., SM1:Jan 69:53:6333

Time Dependent Deformation of Normally Consolidated Clays and Peats, Laing Barden, SM1: Jan 69:1:6337

Pedestrians

Balancing Transportation, John E. Hirten, BP73:Dec 73:1

Behavioral Evaluation of Pedestrian Countermeasures, Wallace G. Berger, BP73:Dec 73:112

Dade County Bikeways, Ron Tietgen, BP73:Dec 73:286

Data Collection Techniques - Time-Lapse Photography, Paul W. Miller and Walter H. Kraft, BP73:Dec 73:221

Defining the Slip Resistance of Surfaces Used for Pedestrian Traffic, Robert D. Doering, BP73:Dec 73:261

Design of Pedestrian Facilities for the Washington Metro, Albert J. Roohr, MTI:May 72:159

Design of Pedestrian Facilities for the Washington Metro, Melvin Siegel, BP73:Dec 73:420
The Elderly Pedestrian: A Special Problem, Susan B. Haberkorn, BP73:Dec 73:414
Fulton Arcade (A Pedestrian/Transitway in Downtown Brooklyn), Richard M. Rosan, BP73: Dec 73:80
Future National Parks for Pedestrians and Bicyclists, Wm. H. Claire, BP73:Dec 73:530
Information System in Transportation Facilities, Paul Arthur, MTI:May 72:99
Mall Planning Strategy, Don C. Miles, BP73:Dec 73: 675
Moving Walks, Ralph W. Blevins, BP73:Dec 73:463
Pedestrian Mall: Purpose, Form, Design, Success, Crawford C. Westbrook, BP73:Dec 73:74
Pedestrian Precincts in City Centers, Robert Sewall Browne, BP73:Dec 73:248
Pedestrian System Planning for High Rise Buildings, John J. Fruin, TE3:Aug 74:675:10741
Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
Planning and Designing for the Pedestrian Environment, Anthony R. Ameruso, BP73:Dec 73: 204
Planning the Pedestrian Environment, Herbert S. Levinson, BP73:Dec 73:37
Problems in Assuring the Safety of Pedestrians, Susan P. Baker, BP73:Dec 73:364
Regulations for Pedestrian and Bicycle Safety: Why, Who, What and How to Regulate, Monroe B. Snyder, BP73:Dec 73:553
Safety of Pedestrians and Abutting Property Occupants, Julie Anna Fee, BP73:Dec 73:85
School Trip Safety and Urban Play Areas - A Study of the Young Pedestrian, Martin L. Reiss, BP73: Dec 73:96
Sizing Pedestrian Queueing Areas, Peter A. Fausch, MTI:May 72:113
Traffic and Service Characteristics of Pedestrians in Terminals, John J. Fruin, MTI:May 72:91
Variable Speed Walkways, Ralph W. Blevins, Victor J. Dietz and Richard D. Burson, MTI:May 72:347

Penetration
Accelerometer-Monitored Coring, William L. Preslan, CEO-II:70:655
Compared Experiences with the S.P.T. (In Spanish), C. M. Arce, F. L. Torres and H. J. Vercelli, 4PCSM:71:II95
Depth Prediction For Earth-Penetrating Projectiles, C. Wayne Young, SM3:May 69:803:6558
Dynamic Cone and Standard Penetration Test in Silty Sands (In Spanish), Ricardo Dobry, 4PCSM: 71:II1
Low Velocity Penetration of Kaolin Clay, James D. Murff and Harry M. Coyle, SM5:May 73:375:9737
Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592
Lubricant And Polymer Reduction Of Sediment Adhesion, R. A. Erchul and Raymond J. Smith, CEO-II:70:621
Membrane Penetration in Triaxial Tests on Sands, Vegesna S. Raju and Sekanoor K. Sadasivan, TN: GT4:Apr 74:482:10454
On The Standard Penetration Test in Test Borings (In Spanish), A. D. Ferraz Napoles Neto, 4PCSM: 71:II85
Pavement Design and Staging for Mayan Roads, Allen F. Lubina and Robert N. Panfill, TE4:Nov 71:651:8516
Penetration of Beam on Plastic Foundation, Robert J. Green, TN: EM6:Dec 71:1769:8559
The Penetration of Objects Into The Ocean Bottom, Werner E. Schmid, CEO-II:70:167
Prediction Method for Projectile Penetration, James D. Murff and Harry M. Goyle, TN: SM11:Nov 73: 1033:10/48
The Standard Penetration Test, Victor F. B. de Mello, 4PCSM:71:I1
Standard Penetration Test and Relative Density, Klaus-Jurgen Melzer, 4PCSM:71:II37
Standard Penetration Test for Sand Denseness, Harold J. Gibbs, 4PCSM:71:II27
Standard Penetration Tests in Collapsible Soils, Aldo R. Reginatto, 4PCSM:71:II77
Standard Test Boring with Drilling Mud, Charles S. Hedges, 4PCSM:71:II63
A Theoretical Assessment of the SPT, Edward A. Nowatzki, 4PCSM:71:II45

Penetration Resistance
Projectile Penetration of Elastic-Plastic Earth Media, Lewis Thigpen, GT3:Mar 74:279:10414

Penetration Tests
Compared Experiences with the S.P.T. (In Spanish), C. M. Arce, F. L. Torres and H. J. Vercelli, 4PCSM:71:II95
Dynamic Cone and Standard Penetration Test in Silty Sands (In Spanish), Ricardo Dobry, 4PCSM: 71:II1
New Method for Deep Sand Vibratory Compaction, Robert D. Anderson, CO1:Mar 74:79:10429
On The Standard Penetration Test in Test Borings (In Spanish), A. D. Ferraz Napoles Neto, 4PCSM: 71:II85
Prediction Method for Projectile Penetration, James D. Murff and Harry M. Goyle, TN: SM11:Nov 73: 1033:10/48
The Standard Penetration Test, Victor F. B. de Mello, 4PCSM:71:I1
Standard Penetration Tests in Collapsible Soils, Aldo R. Reginatto, 4PCSM:71:II77
Standard Test Boring with Drilling Mud, Charles S. Hedges, 4PCSM:71:II63
A Theoretical Assessment of the SPT, Edward A. Nowatzki, 4PCSM:71:II45

Penetrometers
The Dynamic Cone Penetration Test, Dinesh Mohan and D. F. Sen Gupta, CE:Feb 70:49
Electric Penetrometer For Site Investigations, Jacobus de Ruiter, SM2:Feb 71:457:7907

Pennsylvania
Bachelor of Technology: Six Years Experience, John D. Antrim, Milan E. Degyansky and William A. Welsh, CEE:Feb 74:1-231
Bikeway Planning/Construction - A PR Tool, John F. Graham, BP73:Dec 73:200
Central Penn National Bank, Vincent G. Kling and Partners, TB:73:C-P-362
Centre Square, Vincent G. Kling and Partners, TB: 73:C-P-390
Civil Engineering and Public Affairs: New Direction in Undergraduate Education at Carnegie-Mellon University, Francis Clay McMichael, CEE:Feb 74: 1-689
Community Service and Urban Problems: Can Civil Engineers Make a Contribution?, Maynard Charles Nugent, CE:Jan 70:53
Dam Safety Program in Pennsylvania, Clifford H. McConnell, IMROD:Sept 73:139
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263
Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731
Fidelity Mutual Life, Vincent G. Kling and Partners, TB:73:C-P-368
The Johnstown Flood Revisited, Alfred R. Pagan, CE:Aug 74:60
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456
Penn Center, Vincent G. Kling and Partners, TB:73: C-P-380
Philadelphia Regions' Urban Corridor Demonstration Program, Ira N. Pierce, NA:Mar 71:161
Pittsburgh National Building, Welton Becket and Associates, TB:73:C-P-310
Public Works Engineering and Administration- The Pittsburgh Experience, George M. Tomsho and Joel I. Abrams, CEE:Feb 74:1-723
Setting the Stage for a Tour of the Lindenwold Hi-speed Line, J. William Vigrass, NA:Mar 71:193
The Slide at Brilliant Cut, James V. Hamel, RM13: 72:487

Stock Exchange Building, Vincent G. Kling and Partners, TB:73:C-P-372
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
United States Steel Corporation Building, Harrison & Abramovitz, TB:73:C-P-432
1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389

Pensions
ASCE's Involvement in Pension Concepts, Joseph S. Ward, CE:Sept 73:93
Pension Bill Nears Passage, CE:May 74:85
Retirement Plan Study, Arnold Olitt, PP1:Sept 70:39:7552
Superior Pension Plan Helps Attract Employees, Jack J. Schoustra and Richard S. Summerhays, CE:Jan 73:58

Penstocks
Design and Construction of Mossyrock Penstocks, Edgar T. Moore, PO1:Jan 71:49:7799
Design of Carters Pumped Storage Project, Walter W. Burdin, PO3:June 70:383:7353
Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73:747:9730
Guri Hydroelectric Project Designed for Staged Development, Hans Hasen and P. Palacios H., CE:Dec 71:55
Hydraulic Performance 0f Penstock Trifurcations, Palepu V. Rao, H. C. Misra and R. V. Juyal, PO:Mar 69:35:6456
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696
New Design Criteria for USBR Penstocks, Harold G. Arthur and John J. Walker, PO1:Jan 70:129:7034
Penstock Construction at Grand Coulee Dam, Wayne H. John, CE:Dec 73:52
Penstocks For Six Pumped Storage Projects, J. Edgar Revelle and Robert W. Mikitka, PO2:Mar 71:435:7947
Powerplant Chamber Under Oroville Dam, George H. Kruse, URC:72:333
Proposed Third Power Plant at Grand Coulee Dam, Harold G. Arthur, PO1:Mar 67:15:5148
Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1:8959
Reinforcing Steel for Penstock Wye Branch, Kenneth E. Sorensen, PO2:Oct 69:217:6830
Sizing of Pumped Storage Conduits, Raymond K. Sullivan, Jr., PO3:July 71:667:8252
Steel Penstock Design For Tims Ford Dam, George E. Day and Horace S. Beckner, PO1:Jan 71:203:7803
Vibration Analysis of Pump Discharge Lines, Jesse M. Diaz and Ravinder K. Jain, HY11:Nov 70:2279:7678

People Movers
Houston Airport's Low Cost People-Mover, Hal K. Puckett and James C. Williamson, TE1:Feb 74:255:10330

Percolation
Discharge and Travel Time for Ground-Water Conduits, Stanley S. Butler and David L. Gundlach, IR1:Mar 74:17:10393

Percussion Drilling Rigs
Energy Required to Break Rock by Percussive Drilling, Kaarlo O. Hakalehto, RM14:73:613

Perforating
Cold-Formed Steel Members with Perforated Elements, Wei-Wen Yu and Charles S. Davis, ST10:Oct 73:2061:10059

Performance
An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB:73:Ia-4-797
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831
Design and Performance of Deep Foundations, Bramlette McClelland, PES:73:II-111
Design and Performance of Deep Foundations -- Reporter's Summary, Pablo Girault, PES:73:III-211
Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:I237
Evaluation of Airfield Performance by Simulation, Austin E. Brant, Jr. and Patrick J. McAward, Jr., TE2:May 74:505:10552
Factors Affecting Environmental Performance of High-Strength Bolts, Walter K. Boyd and W. S. Hyler, ST7:July 73:1571:9866
Keynote Address: The Performance of Earth Structures and Foundations, T. William Lambe, 4PCSM:72:III7
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Participatory Management of Professionals, Thomas A. Marlow, CE:Oct 73:71
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
Predicting Pavement Performance, Robert E. Boyer and Milton E. Harr, TE2:May 74:431:10533
Predicting Performance of Braced Excavations, T. William Lambe, PES:73:III-255
Preliminary Design of Wastewater Treatment Systems, Robert Smith, SA1:Feb 69:117:6426
Session V: Special Topics (Hydraulic Fills, Performance, Evaluation, etc.), Ronald C. Hirschfeld, PISST:71:165
Shallow Foundations, Douglas C. Moorhouse, PES:73:II-71
Shallow Foundations -- Panel Presentation, Carl B. Crawford, PES:73:III-165
Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001
Systems Analysis Method for Pavement Structures, William Ronald Hudson, B. Frank McCullough, Frank H. Scrivner and Gary Carey, ST1:Jan 71:81:7852
Theme Report, Committee on the Survey of Tall Buildings, Neal FitzSimons, TB:73:C-AC14-87
Towards Risk-Based Design and Performance Criteria, Alfredo H.-S. Ang, TB:73:Ib-10-1007

Performance Evaluation
Client Relations, Chandler P. Young, EPMT:73:63
Dam Foundation Problems and Solutions, B. I. Maduke, EFFD:Mar 74:69
Urban Housing: Kaiser Committee reports, CE:Apr 69:70

Periodicals
Forty Years of ASCE and "Civil Engineering", Mary E. Jessup, CE:Oct 70:59

Periodic Functions
Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708

Perlite
Reducing Pond Evaporation with Perlite Ore, Keith R. Cooley and C. Brent Cluff, IR2:June 72:255:8953

Permafrost
Alaska Builds Highway Over Muskeg and Permafrost, John C. Becker, CE:July 72:75
Basic Construction Principles in Higher Latitudes, Shu-T'ien Li, CO1:Mar 74:33:10399
Finite Element Permafrost Thaw Settlement Model, Jon F. Sykes, William C. Lennox and Robin G. Charlwood, GT11:Nov 74:1185:10957
Frost Heaving of Piles in Permafrost, James Allen and Robert W. Huck, CE:Apr 72:77
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090

The Trans-Alaska Pipeline Story, E. L. Patton, TE1: Feb 73:139:9573

Two-Dimensional Heated Pipeline in Permafrost, Jon F. Sykes, William C. Lennox and Tharakkal E. Unny, GT11:Nov 74:1203:10956

Permeability

Air Permeability of Compacted Cohesive Soils, Leonard J. Langfelder, C. F. Chen and J. A. Justice, SM4:July 68:981:6040

Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760

Boundary Effects on Stability of Structures, Amrik S. Chawla, HY9:Sept 72:1557:9199

Discharge and Travel Time for Ground-Water Conduits, Stanley S. Butler and David L. Gundlach, IR1:Mar 74:17:10393

Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:I237

Effects of Loading Method on Triaxial Test Results, Raymond Lundgren, James K. Mitchell and James H. Wilson, SM2:Mar 68:407:5844

End Effects in Models for Seepage Below Weirs, S. Muthukumaran and V. C. Kulandaiswamy, HY3: Mar 72:541:8794

Estimating Soil Permeability Rates, Merlin E. Horn, IR2:June 71:263:8169

Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and Tor L. Brekke, RM14:73:481

Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839

Flow Around Inclined Sheet Pile, Annapareddy Siva Reddy, Govinda Chandra Mishra and Kyatsandra Seetharamiah, HY7:July 71:1101:8248

Flow of Air Through Soils, Geoffrey E. Blight, SM4: Apr 71:607:8026

Fracture Evaluation by the Borehole Logging Method, John I. Myung and R. W. Baltosser, RM13:72:31

Friction Factor and Reynolds Number in Porous Media Flow, Anat Arbhabhirama and Antonio A. Dinoy, HY6:June 73:901:9784

Impedance Effects On Unsaturated Flow In A Non-Swelling Soil, Hong Yau Wong and Raymond N. Yong, TN: SM8:Aug 72:837:9085

Infiltration Equation in Exponential Forms, Yu-Si Fok, IR4:Dec 67:125:5686

Mean Pore Sizes from Flow Measurements, Richard P. Long and Thomas F. Zimmie, TN: SM7:July 73: 583:9865

A Monte Carlo Approach to Seepage in Jointed Rock, William E. Kelly, RM13:72:227

One-Dimensional Infiltration into Layered Soils, Yu-Si Fok, IR2:June 70:121:7343

Permeability of Cohesionless Soils, Abdelwahab M. Amer and Amin A. Awad, TN: GT12:Dec 74:1309: 10981

Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72: 927:9443

Planning and Interpreting Soil Permeability Measurements, Herman Bouwer, IR3:Sept 69:391: 6775

Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579: 8947

Rock Fracture Spacings, Openings, and Porosities, David T. Snow, SM1:Jan 68:73:5736

Stability of Structures on Permeable Foundations, Satya P. Garg and Amrik S. Chawla, HY4:July 69: 1095:6648

Stability of Trenches Filled with Fluids, Kevin L. Nash, CO4:Dec 74:533:11006

Steady and Unsteady Flow Towards Gravity Wells, Mohammad Ali Mahdaviani, HY6:Nov 67:135: 5581

Storage of Oil in Unlined Caverns in Different Types of Rock, Carl-Olof Morfeldt, RM14:73:409

Studies on Seepage from Canals with Partial Lining, Kanakatti Subramanya, Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333: 10197

Subsurface Irrigation System Analysis and Design, Yu-Si Fok and Lyman S. Willardson, IR3:Sept 71: 449:8380

Theory of Consolidation for Clays, Gholamreza Mesri and Anoushiravan Rokhsar, GT8:Aug 74: 889:10740

Wave-Induced Pressures in Beds of Sand, John F. A. Sleath, HY2:Feb 70:367:7057

Wave Transmission Through Permeable Breakwaters, Charles K. Sollitt and Ralph H. Cross, III, CE13: 72:III-1827

Well Capacity for Continuous Permeability Variation, Raymond J. Krizek, Wallace H. Baker and Arley G. Franklin, IR3:Sept 69:409:6785

Permeability Coefficients

Seepage Through Soil-Cement Facings, Glenn DeGroot, PES:72:I-751

Personnel

Civil Engineer in Federal Government, Nicholas J. Oganovic, PP1:Sept 70:9:7546

Construction Expediting, Arthur Monsey, CO1:June 70:19:7356

Construction Personnel Management, Henry J. Nave, Jr., CO1:Jan 68:95:5765

Continuing Education of Construction Management Personnel, Kenneth R. Ware, CEE:Feb 74:1-881

Engineering Managers: Key to Cutting Labor Costs, Howard M. Taylor, CE:June 71:41

Engineering Services for Construction, Altaf Hussain, CO3:Sept 74:273:10787

The Engineering Technician: An Underutilized Resource, Ronald P. Shumate, CE:Feb 72:64

Engineers and the Public Press, William H. Wisely, CE:Dec 69:31

Management Structure for Irrigation, Richard A. Smith, IR4:Dec 70:475:7722

Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72: 769:9355

The Military Draft: Educational and Occupational Deferments for Engineers, Betty M. Vetter, CE: May 69:67

Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95

Personnel Development

Guidelines for Employer-Engineer Relationships, CE: July 71:57

Professional Practice for the Young Engineer, Charles S. Hedges, PP1:Sept 70:89:7558

Summary Report of Questionnaire on Construction Inspection, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192

Personnel Management

The Dilemma of an Engineering Manager in a Professional Engineering Firm, Vernon E. Swanson, CE:July 69:56

Engineers in Public Practice Face the Union Problem, Waldo G. Bowman, CE:Apr 69:49

Financial Tools for a Consulting Firm, Roy T. Sheehey, CE:Jan 72:66

Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083

Perturbation

Two-Dimensional Cable Analysis, George R. Buchanan, ST7:July 70:1581:7436

Perturbation Theory

Elimination Of Secularity In Regular Perturbation, W. F. Ames and H. M. Khalil, TN: EM2:Apr 72: 487:8815

Limiting Condition for Standing Wave Theories by Perturbation Method, Yoshito Tsuchiya and Masataka Yamaguchi, 12CEC:71:523

Radial Dispersion in Ground-Water Flow, Bruce W. Hunt, EM6:Dec 74:1117:10998

Seepage From Shallow Reservoir, Bruce W. Hunt, HY1:Jan 73:23:9476

Pesticides
Contamination of Oysters by Pesticides, Donald R. Rowe, Larry W. Canter and J. W. Mason, SA5:Oct 70:1221:7619
Dieldrin in Runoff from Treated Watersheds, J. H. Caro, W. M. Edwards and B. L. Glass, IAWM:72:141
Environmental Considerations in the Use of Herbicides on Reclamation Projects, John E. Knoll, OIDS:72:205
Impact on Fish and Wildlife from Land-Use Practice, John C. Peters, IAWM:72:387
Opening Remarks, Gerald Palevsky, CEWAU:74:138

Petroleum
Systems Approach to Petroleum Site Selection, William S. Gaither and John Patrick Sides, WW3:Aug 69:395:6750

Petroleum Engineering
Buckling Frequencies of Long Vertical Pipes, Tseng Huang and D. W. Dareing, EM1:Feb 69:167:6400

Petroleum Pipelines
Finite Element Permafrost Thaw Settlement Model, Jon F. Sykes, William C. Lennox and Robin G. Charlwood, GT11:Nov 74:1185:10957
The Trans-Alaska Pipeline Story, E. L. Patton, TE1:Feb 73:139:9573

Ph
Effect of Inorganics on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, NSCD:71:85
A New Analytical Method for Ozone, R. F. Layton and Riley N. Kinman, NSCD:71:285
Salt and Virus Inactivation by Chlorine and High pH, Otis J. Sproul, Robert T. Thorup, David F. Wentworth and James S. Atwell, NSCD:71:385

Phenol
Temperature-Toxicity Model for Oil Refinery Waste, James H. Reynolds, E. Joe Middlebrooks and Donald B. Porcella, EE3:June 74:557:10580

Philippine Islands
Angat Project - The Leak in Tunnel Two, Wallace A. Waldorf, PO4:Dec 71:799:8571
Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712

Philippines
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10:Oct 72:995:9303

Philosophy
Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68
The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41
History and Philosophy of Tall Buildings, Rowland J. Mainstone, TB:73:Ia-1-264

Phosphates
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196
Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607:10048
Virus Inactivation During Phosphate Precipitation, Dirk R. Brunner and Otis J. Sproul, SA2:Apr 70:365:7220

Phosphorus
Evaluation of Phosphorus Dynamics in a Watershed, Thomas H. Cahill, Patricia Imperato and Francis H. Verhoff, EE2:Apr 74:439:10445
Phosphate Release in Activated Sludge Process, Clifford W. Randall, Duane W. Marshall and Paul H. King, SA2:Apr 70:395:7223
Phosphate Removal at Baltimore, Maryland, Marion R. Scalf, Fred M. Pfeffer, Lawrence D. Lively, Jack L. Witherow and Charles P. Priesing, SA5:Oct 69:817:6817
Phosphate Removal: Summary of Papers, Milton Spiegel and Tom H. Forrest, SA5:Oct 69:803:6807

Phosphorus Compounds
Anaerobic Digestion of Sludge Containing Iron Phosphate, Sudershan Malhotra, Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432

Photoelastic Analysis
Design of Beams With Off-Center Web Openings, Terry R. Douglas and Samuel C. Gambrell, Jr., ST6:June 74:1189:10611
Photoelastic Analysis of Free-Standing Stairs, K. Chandrashekhara and S. P. Srinivasan, TN: ST12:Dec 72:2836:9400

Photoelasticity
Body-Force Stresses in Gravity Structures, Rowland Richards, Jr. and Werner E. Schmid, SM1:Jan 68:205:5749
Determination of Signs in Moire Method, Fu-Pen Chiang, EM6:Dec 69:1379:6963
Gravity and Surface-Load Stresses in Spheres, August J. Durelli, Vincent J. Parks and Luis Ferrer, EM4:Aug 70:407:7481
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107
Photoelastic Analysis of Concrete Storage Tanks, Robert Mark and David P. Billington, ST9:Sept 69:1939:6791
Photoelastic Analysis of Undersea Structures, Stanley K. Takahashi and Robert Mark, ST3:Mar 69:317:6440
Photoelastic Model Studies of Wye Manifold Branches, S. Redner and J. H. Perrotta, PL1:Oct 68:107:6180
Photoelastic Study of Beams on Elastic Foundations, August J. Durelli, Vincent J. Parks, Carson K.C. Mok and Han-Chow Lee, ST8:Aug 69:1713:6739
Stresses and Strains in Reinforced Concrete, August J. Durelli, Vincent J. Parks and Fu-pen Chiang, ST5:May 69:871:6552
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858
Stresses in a Pressurized Cylinder With a Hole, August J. Durelli, C. J. Del Rio, Vincent J. Parks and H. Feng, ST5:Oct 67:383:5524

Photogrammetric Surveys
Absolute Orientation of Photogrammetric Model, Santosh K. Mahajan and Vijay Singh, SU2:Nov 71:237:8519
Explicit Approach to Exterior Orientation, Santosh K. Mahajan, SU2:Nov 71:251:8518
Lunar Landing Site Assessment, James H. Sasser, ESE:Apr 70:109
Photogrammetric Mapping of Craters from Small Explosions, George C. Love and Luke J. Vortman, SU1:Oct 69:125:6857
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43

Photogrammetry
Aerotriangulation Precision Attainable for Highway Photogrammetry, Michael C.Y. Hou, SU1:May 74:7:10527
Airphoto Interpretation of Flood Plain Soils, Ralph W. Kiefer, SU1:Oct 69:49:6819
Analysis and Prediction of Photogrammetric Residual Errors, Kunwar K. Rampal, SU1:May 74:33:10515
Analytical Plotter System, James R. Skidmore, SU2:Sept 70:253:7559
Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383

Close-Range Photogrammetric Data Reduction Scheme, Dennis E. Moellman and Houssam M. Karara, SU2:Sept 68:211:6106
Computer Program System for Aerotriangulation, Kam W. Wong and G. Elphingstone, SU2:Nov 72: 219:9322
Construction Control by Programmetric Methods, George P. Katibah, SU1:Oct 69:1:6809
Construction Innovations In Reclamation Work, Bernard P. Bellport, CO1:Mar 71:79:7999
Determination of Perspective Generating Parameters, Walter D. Bernhart, SU2:Sept 68:95:6093
The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
Estimating Costs of Aerial Surveys, Antonio M. Aguilar, CE:Oct 69:70
Estimating Land-Clearing Costs Using Aerial Photograph, Leonard A. LeSchack and Robert G. Brown, CE:Feb 69:66
Explicit Approach to Exterior Orientation, Santosh K. Mahajan, SU2:Nov 71:251:8518
Field Observations of Nearshore Current System, Kiyoshi Horikawa and Tamio Sasaki, CE13:72:I-635
Fifty Years in Surveying-Mapping-and the Future, George D. Whitmore, SU1:Oct 69:143:6860
Helping Man To Use The Seas, Robert M. White, CEO-II:70:11
Inertial Platforms in Photogrammetric Mapping, Mohamed F. Madkour, SU2:Sept 68:109:6095
Instant Relief With New Stereo Image Alternator, John E. Leonarz, SU2:Sept 70:257:7564
Map Control by Electronic Surveys, William A. McLaughlin, SU1:Apr 70:81:7226
Mapping for Changing Environment, Morris M. Thompson, SU1:Oct 69:35:6818
Mapping for the Pennsylvania Highways, Victor W. Anckaitis, SU2:Oct 67:103:5530
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165: 9768
Modern Day Surveys for Highway Location and Design, Jon S. Beazley, SU1:Apr 70:11:7196
New Procedure for Numerical Relative Orientation, Santosh K. Mahajan, SU2:Nov 74:155:10962
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
Orthophotoquads for Arizona Land-Use Mapping and Planning, Carl C. Winikka and Samuel A. Morse, Jr., SU1:May 74:1:10525
Photogrammetric Control Extension for Route Design, Eugene E. Derenyi and Ahmed Maarek, SU1:May 74:49:10528
Photogrammetry Aids Solution of Environment Problems, Alfred O. Quinn, SU1:July 72:87:9044
Photogrammetry and Hydraulic Surfaces, Wolfgang Faig, SU2:Nov 72:145:9337
Photogrammetry for Right-of-Way Acquisitions, Edward H. Sokolowski, SU1:Jan 68:49:5735
Pipeline Location: Bibliography Supplement, Edward T. Marsh, Chmn., TE2:May 73:363:9739
Regional Control Supplied by Photogrammetry, G. Carper Tewinkel, SU1:May 71:13:8136
Remote Photographic Acquisition of Data, E. Gordon Kruse and Meredith L. Payne, TN: IR4: Dec 70:503:7752
Space Resection from Collinearity Conditions, Kunwar K. Rampal, SU2:Nov 71:205:8520
Stereophotography of the Sea Surface, An Experiment, L. H. Holthuijsen, M. Tienstra and G. J. v.d. Vliet, WAVES:Sept 74:153
The Survey Engineer - A Rare Species, Arthur J. McNair, SU1:Apr 70:37:7197
Surveying and Mapping from Orbital Platforms, Kam W. Wong, SU1:May 74:15:10529
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63: 10030
Three-Dimensional Positioning—by Multilateration, William E. Ball, Jr., SU1:May 74:63:10524

Photographic Analysis
Photographic Study Of Water Column Separation, Hemmat H. Safwat, TN: HY4:Apr 72:739:8803
Technical Movie of Papago Freeway, John Girand, TE4:Nov 71:619:8506

Photographic Techniques
Sequential Photography of Coastal Water, Maynard M. Nichols, CE13:72:II-747
Time-Interval Photography of Littoral Phenomena, Dennis W. Berg and Eugene F. Hawley, CE13:72: II-725

Photographs
Photographs of Tall Buildings, State-of-Art Report 2, N. Abaya and E. Ozer, TB:73:C-AC14-113

Photography
Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190
Computer Control and Data Acquisition of a Tidal Model, E. R. Funke, CE13:72:III-2387
Data Collection Techniques - Time-Lapse Photography, Paul W. Miller and Walter H. Kraft, BP73:Dec 73:221
Photogrammetry and Hydraulic Surfaces, Wolfgang Faig, SU2:Nov 72:145:9337
Remote Sensing in the Study of Coastal Processes, Orville T. Magoon and Douglas M. Pirie, CE13:72: III-2027
Virtual Mass of Plates and Discs in Water, Frederic T. Mavis, HY10:Oct 70:1947:7593

Photosynthesis
Photosynthesis and Oxygen Balance in Streams, Donald J. O'Connor and Dominic M. Di Toro, SA2:Apr 70:547:7240

Phreatic Lines
Analysis of Canal Seepage to Interceptor Drain, Heramb D. Sharma and Amrik S. Chawla, IR3:Sept 74:351:10819
Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73: 603:9912
Phreatic Surface Location after Drawdown, Arthur H. Dvinoff and Milton E. Harr, SM1:Jan 71:47: 7806
Studies on Seepage from Canals with Partial Lining, Kanakatti Subramanya, Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333: 10197
Unconfined Transient Seepage in Sloping Banks, Chandrakant S. Desai and Walter C. Sherman, Jr., SM2:Feb 71:357:7915

Phreatophytes
Changing the Consumptive Use on the Gila River Flood Plain, Southeastern Arizona, Ronald L. Hanson, Frank P. Kipple and Richard C. Culler, IRS:Sept 72:309
Estimation of Phreatophyte Water Use, William C. Hughes, IRS:Sept 72:191
Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415
Water Consumption in the Lower Colorado River Valley, O. J. Loeltz and C. C. McDonald, IR1:Mar 69:65:6457

Physical Fitness
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
Construction and Maintenance, Howard Gregg, BP73:Dec 73:155

Physical Properties
Reproduction of Physical Processes in Coastal Areas, Hans-Gerhard Ramming, CE13:72:III-2197

Physicians
Involvement of Practitioners in Education for the Practice of Medicine, James F. Schieve, CEE:Feb 74:2-218

Physics
Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1:8959

Physiology
Human Responses to Stairways, Walkways and Ramps: Some Recent Findings, John A. Templer, BP73:Dec 73:137

Phytoplankton
Effects of Temperature on Phytoplankton Growth, Raymond P. Canale and Allan H. Vogel, TN: EE1: Feb 74:231:10309
Preliminary Model of Potomac Estuary Phytoplankton, Robert V. Thomann, Dominic M. Di Toro and Donald J. O'Connor, EE3:June 74: 699:10576

Piers
Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391: 9740
Deflections of Shallow Pier Foundations, Donald C. Slack and John N. Walker, SM4:July 70:1143:7391
Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838
Loadings on Large Piers in Waves and Currents, Hsiang Wang, 12CEC:71:1491
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
Milwaukee Boosts 600 Ft Steel Arch, Joseph H. Looper and Robert W. Anzia, CE:Jan 74:62
Mine Subsidence and Support Methods in Pittsburgh Area, Richard E. Gray and James F. Meyers, SM4: July 70:1267:7407
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91

Piezoelectric Crystals
Simulation of Piers in Hydraulic Models, David J. Ball, WW1:Feb 74:23:10313

Piezometers
Evaluation of Pore Pressures Beneath and Embankment, David J. D'Appolonia, T. William Lambe and Harry G. Poulos, SM6:June 71:881: 8213
Los Nogales Dam - Effectiveness of the Curtain (In Spanish), Carlos A. Micucci, Hugo Scolaro, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II309
Minor Principal Stress Measurements in Marine Clay with Hydraulic Fracture Tests, Michael Bozozuk, EFSE:Aug 74:333
Performance Instrumentation Installed in Oroville Dam, John E. O'Rourke, GT2:Feb 74:157:10363
Seepage Control in the Rio Jaguari Dam and Dike, Lincoln de A. Queiroz, Hamilton G. de Oliveira, Ruy Taiji Mori and Francisco Nazario, 4PCSM:71: II293

Pile Bearing Capacities
Analysis of Pile-Supported Gravity Lock, Chandrakant S. Desai, Lawrence D. Johnson and Charles M. Hargett, GT9:Sept 74:1009:10789
Axial Capacity, Lymon C. Reese, PES:73:III-201
Design of Deep Penetration Piles for Ocean Structures, Bramlette McClelland, GT7:July 74:705: 10665
H-Bearing Piles in Limestone and Clay Shales, William D. Ashton and Paul H. Schwartz, GT7: July 74:787:10667
Torque Shear Test For Cylindrical Friction Piles, Ulrich W. Stoll, CE:Apr 72:63

Pile Drivers
Analysis Of Pile Driver Requirements For Off-Shore Piles By The Wave Equation, Lee L. Lowery, Jr., Thomas Charles Edwards and John M. Miller, CEO-II:70:415
Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201: 9188
Removal of Timber Piles in Deep Water, Thomas E. Petermann, CE:Aug 69:56

Pile Driving
Analysis Of Pile Driver Requirements For Off-Shore Piles By The Wave Equation, Lee L. Lowery, Jr., Thomas Charles Edwards and John M. Miller, CEO-II:70:415
Breakwater Built With Concrete Piles, Thomas F. Plodowski, CE:Apr 72:80
Conquering Conneaut Marsh, Joseph S. Goff, CE: May 69:43
Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207
Design and Construction of Newport Bridge, Alfred Hedefine and Herbert M. Mandel, ST11:Nov 71: 2635:8529
Driving Behavior of Long Steel Piles, Peter Y. Lee, PES:72:I-1259
Dynamic Prediction of Pile Static Bearing Capacity, Robert H. Scanlan and John J. Tomko, SM2:Mar 69:583:6468
Effects of Foundation Construction on Nearby Structures, David J. D'Appolonia, 4PCSM:71:I189
Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, George G. Goble, William D. Kovacs and Frank Rausche, PES:73:III-3
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
H-Bearing Piles in Limestone and Clay Shales, William D. Ashton and Paul H. Schwartz, GT7: July 74:787:10667
Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201: 9188
Pile Bearing Capacity -- Prediction Versus Performance, George G. Goble, Frederick K. Walker and Frank Rausche, PES:72:I-1243
Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59: 9844
Port Construction At Burns Waterway Harbor, John H. McGavock, Norman R. Loesing and Elvis R. Dye, CO1:Mar 71:17:7990
Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941
Problems in Design and Installation of Offshore Piles, Bramlette McClelland, John A. Focht, Jr. and William J. Emrich, SM6:Nov 69:1491:6913
Properties of Pile Cushioning Materials, Thomas Charles Edwards, Lee L. Lowery, Jr. and Teddy J. Hirsch, ST7:July 69:1431:6663
Relaxation of Piles in Sand and Inorganic Silts, Nai C. Yang, SM2:Mar 70:395:7123
Saint Louis Bay Bridge, Richard E. Whitaker, CO2: Oct 70:149:7588
Settlement of Pile Foundations in Granular Soil, Gerald A. Leonards, PES:72:I-1169
Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220
Thin-wall Pile Driven by Improved Technique, Fredric Rusche, CE:Jan 71:54
Vibrations During Construction Operations, John F. Wiss, CO3:Sept 74:239:10798

Pile-Driving Formulas
Dynamic Driving Stresses in Prestressed Concrete Piles, Arthur R. Anderson and Saad E. Moustafa, CE:Aug 71:55
Dynamic Prediction of Pile Static Bearing Capacity, Robert H. Scanlan and John J. Tomko, SM2:Mar 69:583:6468

Relaxation of Piles in Sand and Inorganic Silts, Nai C. Yang, SM2:Mar 70:395:7123

Pile Extraction

Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207

H-Bearing Piles in Limestone and Clay Shales, William D. Ashton and Paul H. Schwartz, GT7: July 74:787:10667

Khazzan Dubai No. 1: Pile Design and Installation, James A. Wees and Robert S. Chamberlin, SM10: Oct 71:1415:8439

Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47

Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077

Removal of Timber Piles in Deep Water, Thomas E. Petermann, CE:Aug 69:56

Pile Foundations

Analysis of Pile-Supported Gravity Lock, Chandrakant S. Desai, Lawrence D. Johnson and Charles M. Hargett, GT9:Sept 74:1009:10789

An Analysis of Wave Forces on a Pile, Farouk M. Abdel-Aal, WAVES:Sept 74:867

Artic Research Laboratory, William H.G. Van Ness, CE:May 71:69

Breakwater Built With Concrete Piles, Thomas F. Plodowski, CE:Apr 72:80

Bridge Foundation Behavior in Alaska Earthquake, Grant A. Ross, H. Bolton Seed and Ralph R. Migliaccio, SM4:July 69:1007:6664

Buckling of Finite Beams in Elastic Continuum, Madhira Radha Madhav and Edward H. Davis, EM6:Dec 74:1227:11033

Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207

Constructing Washington D.C.'s Metro, Ellis E. Wilhoyt, Jr., CE:Nov 74:74

Construction Over Water—Fill or Piles?, Jacob Feld and Robert C. Johnston, CE:Aug 74:54

Deformations Of Pile Supported Structures, S. P. Prawell, Jr. and R. L. Ketter, CEO-II:70:417

Design and Performance of Deep Foundations, Bramlette McClelland, PES:73:II-111

Design and Performance of Deep Foundations -- Reporter's Summary, Pablo Girault, PES:73:III-211

Design of Deep Penetration Piles for Ocean Structures, Bramlette McClelland, GT7:July 74:705: 10665

Experimental Behavior of Downdrag in Deep Foundations, Robert M. Koerner, TN: SM2:Feb 71: 515:7860

Experiments in Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, SM11:Nov 73:957: 10161

Finite Element Analysis of Pile-Supported Pavement Structures, Raman Pichumani, John E. Crawford and George E. Triandafilidis, TE2:May 74:293: 10516

Frost Heaving of Piles in Permafrost, James Allen and Robert W. Huck, CE:Apr 72:77

H-Bearing Piles in Limestone and Clay Shales, William D. Ashton and Paul H. Schwartz, GT7: July 74:787:10667

The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991

Khazzan Dubai No. 1: Pile Design and Installation, James A. Wees and Robert S. Chamberlin, SM10: Oct 71:1415:8439

Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES: 72:I-1105

Mathematical Model of Single Pile, Noel J. Gardner and Roy Sage, TN: GT9:Sept 74:1081:10774

Measuring Pile Deflections With Inclinometer, Jai B. Kim and Robert J. Brungraber, TN: GT7:July 74: 867:10641

Model for Machine-pile Foundation-soil System, Madhira Radha Madhav and N. S.V. Kameswara Rao, TN: SM1:Jan 71:295:7787

Model Study of Laterally Loaded Piles, Melvin T. Davisson and James R. Salley, SM5:Sept 70:1605: 7511

Performance of Four Foundations on End Bearing Piles, David J. D'Appolonia and T. William Lambe, SM1:Jan 71:77:7807

Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259

Performance of Two Slurry Wall Systems in Chicago, James A. Cunningham and Jose I. Fernandez, PES: 72:I-1425

Pile Bearing Capacity -- Prediction Versus Performance, George G. Goble, Frederick K. Walker and Frank Rausche, PES:72:I-1243

Pile Stability, Part 1 -- Elastic Soil, Peter J. Hoadley, GT74:June 74:225

Pile Stability, Part 2 -- Non-Elastic Soil, Peter J. Hoadley, GT74:June 74:245

Pile Tests-Arkansas River Project, Charles I. Mansur and Alfred H. Hunter, SM5:Sept 70:1545:7509

Plunging Wave Pressures on a Semi-cylindrical Tube, Yuan Jen and Pang-Mou Lin, 12CEC:71:1469

Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56

The Pressure of Floating Ice-fields on Piles, Joachim Schwarz, 12CEC:71:1523

Problems in Design and Installation of Offshore Piles, Bramlette McClelland, John A. Focht, Jr. and William J. Emrich, SM6:Nov 69:1491:6913

Properties of Pile Cushioning Materials, Thomas Charles Edwards, Lee L. Lowery, Jr. and Teddy J. Hirsch, ST7:July 69:1431:6663

Scour Around a Circular Cylinder due to Wave Motion, Donald R. Wells and Robert M. Sorensen, 12CEC:71:1263

Settlement Histories of Two Pile Supported Grain Silos, Melvin T. Davisson, PES:72:I-1155

Settlement of Building on Pile Foundation in Sand, Robert M. Koerner and Antal Partos, GT3:Mar 74: 265:10405

Settlement of Pile Foundations in Granular Soil, Gerald A. Leonards, PES:72:I-1169

Settlement of Some Piled Foundations in Mexico, Pablo Girault, PES:72:I-1185

Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220

Torque Shear Test For Cylindrical Friction Piles, Ulrich W. Stoll, CE:Apr 72:63

Underpinning Massive Structures, Charles E. Mergentime, CE:Mar 72:40

Pile Friction

Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, TN: SM9:Sept 72:987:9161

Pile Groups

Behavior of Laterally Loaded Piles: II-Pile Groups, Harry G. Poulos, SM5:May 71:733:8093

Design Criteria for Fenders and Berthing Structures, Brendan F. Saurin, BMS:71:256

Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES: 72:I-1105

Model Investigations of Pile Groups in Sand, Andrzej F. Tejchman, SM2:Feb 73:199:9579

Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56

A Probabilistic Approach to Determine Wave Forces on Ocean Pile Structures, G. I. Schueller and Haresh C. Shah, CE13:72:III-1683

Selection of Fenders, Fernando Vasco Costa, BMS: 71:260

Settlement of Pile Groups Bearing on Stiffer Strata, Harry G. Poulos and Neil S. Mattes, TN: GT2:Feb 74:185:10310

Settlements of Pile Groups, Bengt B. Broms, PES:73: III-181

Wave Reflection and Transmission for Pile Arrays, Brian J. Van Weele and John B. Herbich, CE13:72: III-1935

Ways to Improve Berthing Operations, Fernando Vasco Costa, BMS:71:273

Pile Lateral Loads

Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837
Design of Deep Penetration Piles for Ocean Structures, Bramlette McClelland, GT7:July 74:705:10665

Pile Loading Tests

Analysis of Friction Piles, George A. De Pauw, CE:Oct 74:60
Building Settlement on End-Bearing Driven Piles, Amos Komornik, Gdalyah Wiseman and Joseph G. Zeitlen, PES:72:I-1135
Driving Behavior of Long Steel Piles, Peter Y. Lee, PES:72:I-1259
H-Bearing Piles in Limestone and Clay Shales, William D. Ashton and Paul H. Schwartz, GT7:July 74:787:10667
Load Tests on Small Foundations in Soft Clay, Edward W. Brand, Chai Muktabhant and Anan Taechathummarak, PES:72:I-903
Performance of Four Foundations on End Bearing Piles, David J. D'Appolonia and T. William Lambe, SM1:Jan 71:77:7807
Pile Bearing Capacity -- Prediction Versus Performance, George G. Goble, Frederick K. Walker and Frank Rausche, PES:72:I-1243
Settlement of Pile Foundations in Granular Soil, Gerald A. Leonards, PES:72:I-1169
Some Load Transfer Data on Caissons in Hard Chicago Clay, Robert D. Holtz and Clyde N. Baker, Jr., PES:72:I-1223
Torque Shear Test For Cylindrical Friction Piles, Ulrich W. Stoll, CE:Apr 72:63

Piles (Foundations)

Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391:9740
Axial Capacity, Lymon C. Reese, PES:73:III-201
Behavior of Bored Piles in Sand, Fadlo T. Touma and Lymon C. Reese, GT7:July 74:749:10651
Behavior of Laterally Loaded Piles: I-Single Piles, Harry G. Poulos, SM5:May 71:711:8092
Behavior of Laterally Loaded Piles: II-Pile Groups, Harry G. Poulos, SM5:May 71:733:8093
Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837
Buckling of Fully and Partially Embedded Piles, Annapareddy Siva Reddy and Arun J. Valsangkar, SM6:Nov 70:1951:7688
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075
Deep Foundations - Piles and Caissons, State-of-Art Report 4A, G. M. Cornfield, TB:73:Ia-11-925
Deep Water Contruction Problems in Offshore Terminal, Vincent Scott Fox, CE:June 70:63
Designing Computer Programs for Bridge Foundations, E. F. Roberts and M. Lohrmann, CE:Dec 71:64
Distribution of Wind Loads to Soils, State-of-Art Report 2, Salvatore V. DeSimone, TB:73:Ia-11-881
Effects of Foundations on Adjacent Structures, State-of-Art Report 3, Endre Horvat and Cornelius van der Veen, TB:73:Ia-11-905
Effects Of Pile Roughness On Wave Forces On Piles, Robert M. Sorensen and William J. Burton, CE0-II:70:441
Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, TN: SM9:Sept 72:987:9161
Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, George G. Goble, William D. Kovacs and Frank Rausche, PES:73:III-3
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
Generalized Analysis of Pile Foundations, Lymon C. Reese, Michael W. O'Neill and Robert E. Smith, SM1:Jan 70:235:7032
H-Bearing Piles in Limestone and Clay Shales, William D. Ashton and Paul H. Schwartz, GT7:July 74:787:10667
High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985
Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
Lateral Load Capacity of Piles in Sand and Normally Consolidated Clay, Awtar Singh, Richard E-Wei Hu and Robert D. Cousineau, CE:Aug 71:52
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
Long Prestressed Piles, E. W. Alley, CE:Apr 70:50
New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712
Numerical Design-Analysis for Piles in Sands, Chandrakant S. Desai, GT6:June 74:613:10617
Pile Stability, Part 1 -- Elastic Soil, Peter J. Hoadley, GT74:June 74:225
Pile Stability, Part 2 -- Non-Elastic Soil, Peter J. Hoadley, GT74:June 74:245
Rational Design Concept for Breasting Dolphins, Lymon C. Reese, Michael W. O'Neill and N. Radhakrishnan, WW2:May 70:433:7291
Session IV: Other Improvement Techniques (Additives, Grouting, Thermal, Electro, Vibroflotation, Blasting, Compaction, Piles), Roy E. Olson, PISST:71:91
Settlements of Pile Groups, Bengt B. Broms, PES:73:III-181
Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295:9545
Subsurface Construction Contracts—A Contractor's View, George A. Fox, CO2:June 74:153:10608
Tension Piles and Diagonal Tie-Backs, Norman L. Liver, CO1:July 69:107:6692
Tests on Instrumented Piles, Ogeechee River Site, Aleksandar Sedmak Vesic, SM2:Mar 70:561:7170

Pile Spacing

Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES:72:I-1105
Settlement of Pile Foundations in Granular Soil, Gerald A. Leonards, PES:72:I-1169
Settlement of Some Piled Foundations in Mexico, Pablo Girault, PES:72:I-1185

Pile Structures

Deep Water Contruction Problems in Offshore Terminal, Vincent Scott Fox, CE:June 70:63
Design of Columbia River Pile Dikes, Robert O. Dodge, WW2:May 71:323:8142
Dumbarton Bridge Renewal, H. M. Williamson and T. L. Fuller, CE:July 69:44
Dynamic Driving Stresses in Prestressed Concrete Piles, Arthur R. Anderson and Saad E. Moustafa, CE:Aug 71:55
External 'Shell' Stops Soil Movement and Saves Tunnel, Joseph P. Nicoletti and James M. Keith, CE:Apr 69:72
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
Lumped Parameter Beams Based on Impedance Methods, Richard D. Ellison, Elio E. D'Appolonia and Gerald R. Thiers, SM4:Apr 71:661:8052
Machine-Bored Caissons for Earth-Retaining Systems in Europe, Herbert Weinhold, CE:July 70:64
Pile-Driving Formulas For Friction Piles in Sand, Roy E. Olson and Kaare S. Flaate, SM6:Nov 67:279:5604
Pile Tips and Barbs Prevent Ice Uplift, James E. Muschell, CE:June 70:41
Prestressed Concrete Simplifies Construction of Breakwater/Wharf, C. A. Ponder and P. S. Belyea, CE:Jan 69:58
Removal of Timber Piles in Deep Water, Thomas E. Petermann, CE:Aug 69:56
Skin Friction For Steel Piles in Sand, Harry M. Coyle and Ibrahim H. Sulaiman, SM6:Nov 67:261:5590

Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220

Thin-wall Pile Driven by Improved Technique, Fredric Rusche, CE:Jan 71:54

Unique Methods Solve Cofferdam Construction, E. V. Wright, CE:Nov 71:37

Pile Tests

Construction of Deep Foundations, William F. Swiger, PES:73:III-207

Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, George G. Goble, William D. Kovacs and Frank Rausche, PES:73:III-3

Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES:72:I-1105

Pilots (Personnel)

Role of the Air Line Pilot in Air Transportation, W. T. Alford, ASC73:Mar 73:55

Pilot Shafts

Gravity and Gradients of Long Tunnels, H. S. Williams, SU1:Oct 69:11:6815

Pilot Training

Role of the Air Line Pilot in Air Transportation, W. T. Alford, ASC73:Mar 73:55

Pin Connected Joints

Least-Weight Frameworks for Loads Across Span, Richard E. McConnel, EM5:Oct 74:885:10872

Pipe Bedding

Summary Report on Experimental Evaluation of Simulated Uncased Pipeline Crossings of Railroads and Highways, Everett C. Rodabaugh, Thomas J. Atterbury and G. L. Hinueber, UPC:Apr 71

Pipe Bends

Hydraulic Performance Of Penstock Trifurcations, Palepu V. Rao, H. C. Misra and R. V. Juyal, PO:Mar 69:35:6456

Pipe Cover

Offshore Pipeline Burial: Some Remarks on the State-of-the-Art, Sjoerd C. Haagsma, PITO:74:73

Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54

Pipe Cradles

Foundation Conditions, Wayne A. Dunlap and Louis J. Thompson, PITO:74:29

Pipe Design

Design and Construction of Sanitary and Storm Sewers (Book Review), George M. Sallwasser, CE:June 70:88

Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70

Least-Cost Design of Water Distribution Systems, Thawat Watanatada, HY9:Sept 73:1497:9974

Ordering Sewer Design Calculations, Paul M. Berthouex, Gary Wagner and Lawrence J.P. Scully, TN: EE6:Dec 74:1303:10978

Sewer Line Design Based on Critical Shear Stress, Kuan M. Yao, EE2:Apr 74:507:10480

Pipe Flow

Analog Analysis of Water Distribution Networks, Don J. Wood, TE2:May 71:281:8112

Cavitation and Size Scale Effects for Orifices, J. Paul Tullis and Rangachari Govindarajan, HY3:Mar 73:417:9605

Cavitation in Butterfly Valves, James W. Ball and J. Paul Tullis, HY9:Sept 73:1303:9993

Cavitation Scale Effects for Valves, J. Paul Tullis, HY7:July 73:1109:9874

Choking and Supercavitating Valves, J. Paul Tullis, HY12:Dec 71:1931:8593

Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104

Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70

Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547:9117

Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697

Effect Of Axial Flow On Preforated Pipe Outflow, Fred J. Molz and Reed A. Edwards, TN: HY4:Apr 72:747:8803

Effects of Helix Angle on Flow in Corrugated Pipes, Edward Silberman, HY11:Nov 70:2253:7685

Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336

Efficient Code for Steady-State Flows in Networks, Robert Epp and Alvin G. Fowler, HY1:Jan 70:43:7002

Energy Losses at 90° Pipe Junctions, H. Ito and K. Imai, HY9:Sept 73:1353:10022

Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852

Estimating Natural Gas Pipeline Friction Parameters, Michael A. Stoner and Michael A. Karnitz, TE3:Aug 74:757:10762

Float Valve Provides Variable Flow Rates at Low Pressures, John L. Merriam, IR73:Aug 73:385

Flowgraph Analysis of Pipeline Networks, Thorleif Enger and Chuan C. Feng, HY10:Oct 71:1607:8404

Flow in Conduits with Low Roughness Concentration, John A. Roberson and C. K. Chen, HY4:Apr 70:941:7224

Flow of Sand and Water in Pipes, Frederic T. Mavis, TN: HY3:Mar 71:483:7945

Flow Visualization in Turbulent Boundary Layers, Joseph A. Clark and Eric Markland, HY10:Oct 71:1653:8459

Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854

Gas Release During Transient Cavitation in Pipes, C. Kranenburg, HY10:Oct 74:1383:10892

Graph-Theoretic Models for Pipe Network Analysis, H. K. Kesavan and M. Chandrashekar, HY2:Feb 72:345:8709

Head Losses in Wyes and Manifolds, Eugen Ruus, HY3:Mar 70:593:7130

Hot-Film Turbulence Measurements in Water Flow, Francois J. Resch, HY3:Mar 70:787:7177

Hydraulic Network Analysis Using Linear Theory, Don J. Wood and Carl O.A. Charles, HY7:July 72:1157:9031

Hydraulics and Uniformity for Drip Irrigation, I-pai Wu and H. M. Gitlin, IR2:June 73:157:9786

Influence of Line Motion on Waterhammer Pressures, Don J. Wood, HY3:May 69:941:6572

Internal Hydraulics of Thermal Discharge Diffusers, Svein Vigander, Rex A. Elder and Norman H. Brooks, HY2:Feb 70:509:7085

Junction Losses in Laminar and Transitional Flows, Donald K. Jamison and James R. Villemonte, HY7:July 71:1045:8258

Least Cost Design of Branched Pipe Network System, Arun K. Deb, EE4:Aug 74:821:10711

Manning n for Cast-in-Place Concrete Pipe, Thomas T. Wilson, Jr. and Edib Kirdar, HY3:May 69:995:6575

Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830

Mathematical Model For Water Distribution Systems, Mehdi S. Zarghamee, HY1:Jan 71:1:7797

Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472

Optimization in Design of Hydraulic Network, Arun K. Deb and Asok K. Sarkar, SA2:Apr 71:141:8032

Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11:Nov 72:2015:9370

Pipelining of Low-Concentration Sand-Water Mixtures, Millard P. Robinson, Jr. and Walter H. Graf, HY7:July 72:1221:9060

Plane Oscillatory Flow Past Rectangular Obstacles, Le-Chung Cheng, Marlyn E. Clark and James M. Robertson, EM4:Aug 74:707:10719

Sediment Transportation Mechanics: J. Transportation of Sediment in Pipes, Vito A. Vanoni, Chmn., HY7:July 70:1503:7423
Slip Points of Beds in Solid-Liquid Pipeline Flow, Kenneth C. Wilson, HY1:Jan 70:1:6992
Solution Of Hydraulic Jump In Horizontal Channels By Graphs, Yin Au Yeung, TN: HY8:Aug 72:1465:9083
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9: Sept 73:1531:10004
Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72: 1117:9014
Surging in Laboratory Pipeline with Steady Inflow, Edward R. Holley, HY3:May 69:961:6573
A Theory for Heterogeneous Flow of Solids in Pipes, Marion R. Carstens, HY1:Jan 69:275:6354
Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728
Transformation of Moody Diagram, Krishna C. Asthana, HY6:June 74:797:10624
Transients in Pipelines Carrying Liquids or Gases, Victor L. Streeter, TE2:Feb 71:15:7884
Turbulence in Wakes of Roughness Elements, C. K. Chen and John A. Roberson, HY1:Jan 74:53:10257
Uniform Irrigation with Low-Pressure Trickle Systems, Lloyd E. Myers and Dale A. Bucks, IR3: Sept 72:341:9175

Pipe Joints

Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
Hydraulic Performance Of Penstock Trifurcations, Palepu V. Rao, H. C. Misra and R. V. Juyal, PO: Mar 69:35:6456
Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, TE3:Aug 74:733:10756

Pipe Laying

Acoustic Sensing in Pipeline Determination, A. S. Westneat, PITO:74:39
Annotated Bibliography of State-of-the-Art Articles for Pipelines in the Ocean. Progress Report of the Task Committee on Pipelines in the Oceans, Committee on Pipeline Planning, John G. Bomba, Chmn., PITO:74:81
Constructing an Ocean Outfall, Edward B. Fitzpatrick, Jr. and Wallace J. Beckman, CE:Sept 74:83
Foundation Conditions, Wayne A. Dunlap and Louis J. Thompson, PITO:74:29
Offshore Pipeline Burial: Some Remarks on the State-of-the-Art, Sjoerd C. Haagsma, PITO:74:73
A Reel-Type Pipelaying Barge, Paul K. Johnson, CE: Oct 71:45
State-of-the-Art: Pipe Lines in the Oceans — Construction Factors, Robert G. Aldridge, PITO: 74:57
Summary Report on Experimental Evaluation of Simulated Uncased Pipeline Crossings of Railroads and Highways, Everett C. Rodabaugh, Thomas J. Atterbury and G. L. Hinueber, UPC:Apr 71

Pipelines

Analog Analysis of Water Distribution Networks, Don J. Wood, TE2:May 71:281:8112
Analysis of Longitudinal Behavior of Buried Pipes, Harry G. Poulos, GT74:June 74:199
Annotated Bibliography of State-of-the-Art Articles for Pipelines in the Ocean. Progress Report of the Task Committee on Pipelines in the Oceans, Committee on Pipeline Planning, John G. Bomba, Chmn., PITO:74:81
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
Automation in California's State Water Project, Robin R. Reynolds and Welby R. Madsen, PL3: Nov 67:15:5574
Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
Cavitation in Horizontal Pipelines Due to Water Hammer, J. P. Th. Kalkwijk and C. Kranenburg, HY10:Oct 71:1585:8440
Cavitation Scale Effects for Valves, J. Paul Tullis, HY7:July 73:1109:9874
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327
Choking and Supercavitating Valves, J. Paul Tullis, HY12:Dec 71:1931:8593
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48
Computation of Oil Pipeline Transients, Michel Kaplan, Victor L. Streeter and E. Benjamin Wylie, PL3:Nov 67:59:5608
Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547
Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
Cross-Country Pipeline Construction, Frederick J. Seeger and John A. Havers, TE4:Nov 70:603:7667
Current Design Capacity Procedure Used by the USBR, Albert E. Gibbs, IRS:Sept 72:331
Deficiencies Noted in Open Literature — Structural, George H. Workman, PITO:74:61
Design Conduit System By Dynamic Programming, Rex K. Liang, CO1:Mar 71:383:7998
Design Conduit System by Dynamic Programming, Tung Liang, HY3:Mar 71:7988
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10: Oct 73:1659:10070
Design — State-of-the-Art, by Subcommittee on Design and Specifications of the Task Committee on Pipelines in the Ocean, James W. Gillespie, Chmn., PITO:74:45
Distribution of Energy Losses at Conduit Trifurcations, Bezzam C. Syamala Rao, HY6:Nov 68:1363:6207
Dredging Fundamentals, John Huston, WW3:Aug 67: 45:5390
Effect of Coating on Thermal Conductivity of Pipes, P. Mahmoodi, TE1:Feb 70:71:7102
Effect of Pipeline Junctions on Water Hammer Surges, Don J. Wood and Shen P'eng Chao, TE3: Aug 71:441:8296
Energy Loss at Pipe Junctions, Fred W. Blaisdell and Philip W. Manson, IR3:Sept 67:59:5411
Engineering the Trans-Alaska Pipeline, CE:Sept 72: 79
Estimating Natural Gas Pipeline Friction Parameters, Michael A. Stoner and Michael A. Karnitz, TE3: Aug 74:757:10762
Federal Overseer for Pipeline, CE:Feb 74:91
Final Report of the Task Committee on Pipelines in the Oceans — Introduction, John G. Bomba, Chmn., PITO:74:1
First Long-Distance Iron Slurry Pipeline, E. H. Griesshaber, CE:Jan 69:66
Flowgraph Analysis of Pipeline Networks, Thorleif Enger and Chuan C. Feng, HY10:Oct 71:1607:8404
Fluid Interaction with Fracture Propagation in Pipelines, Bernard Steverding and Vernon A. Nieberlein, TE3:Aug 74:583:10726
Gas Release During Transient Cavitation in Pipes, C. Kranenburg, HY10:Oct 74:1383:10892
Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, Marshall U. Bagwell, CE: Feb 73:45
Homestake Delivery System Pipeline, Donald E. Campbell, Thomas A. Marlow and Roy L. Wright, PL2:July 67:71:5353
Hydraulic Trenching of Submarine Pipeline, H. Ivan Schwartz, TN: TE4:Nov 71:723:8489
Initial Economic Evaluation of Slurry Pipeline Systems, E. J. Wasp, T. L. Thompson and T. C. Aude, TE2:Apr 71:271:8106
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933

Minimum Cover for Buried Flexible Conduits, Reynold K. Watkins, Massood Ghavami and G. Reed Longhurst, PL1:Oct 68:155:6195

New Considerations and Experimental Data on Plastic Pipes, Praxitelis A. Argyropoulos, TN: TE2: May 73:431:9688

New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50

Nonconservative Stability by Finite Element, C. D. Mote, Jr., EM3:June 71:645:8204

Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54

Optimization of Pipelines Transporting Solids, William A. Hunt and Irving C. Hoffman, PL1:Oct 68:89:6179

Pipeline Location: Bibliography Supplement, Edward T. Marsh, Chmn., TE2:May 73:363:9739

Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539

Plastic Design of Flexible Conduits, James M. Doyle and Shih-Lung Chu, ST8:Aug 68:1935:6070

Practical Applications of Codes in Construction of Pipelines, David R. Williams, Jr., TE4:Nov 70:471: 7657

Practical Selection of Materials for Large Water Pipe, Donald P. Proudfit, TE1:Feb 69:203:6424

Prestressed Cryogenic Pipelines, Marvin B. Gardner, Jr., TE2:May 74:489:10559

Problems and Deficiencies: Economics and Environmental Considerations, David R. Miller, PITO:74:63

Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1: 8959

Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, TE3:Aug 74:733:10756

Research on Pipeline Flotation, Albert J. Bonar and Osman I. Ghazzaly, TE2:May 73:211:9718

Research Programs on Pipeline Crossings, William F. Quinn, TE3:Aug 70:283:7457

Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691

Resonance in Pressurized Piping Systems, Mohammad Hanif Chaudhry, HY9:Sept 70:1819: 7525

Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115

Seismic Analysis of Underground Structural Elements, Hemant H. Shah and Shih-Lung Chu, PO1:July 74:53:10648

Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090

Settling Parameter in Solids Pipelining, M. P. duPlessis and R. W. Ansley, PL2:July 67:1:5340

Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, TE1:Feb 74:207: 10329

Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, CE:May 74:58

Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72: 1117:9014

State-of-the-Art: Pipe Lines in the Oceans — Construction Factors, Robert G. Aldridge, PITO: 74:57

The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700

Steel Pipe Design—Criteria For Oil, Water, Gas And Slurry Services, William R. DeKeyser, Ralph C. Hughes, L. I. Elder and G. R. Wilson, CE:Mar 74: 64

Structural Design of Pipeline Casing Pipes, Merlin G. Spangler, PL1:Oct 68:137:6194

Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549

Summary Report on Experimental Evaluation of Simulated Uncased Pipeline Crossings of Railroads and Highways, Everett C. Rodabaugh, Thomas J. Atterbury and G. L. Hinueber, UPC:Apr 71

Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11

A Theory for Heterogeneous Flow of Solids in Pipes, Marion R. Carstens, HY1:Jan 69:275:6354

Transient Elastic Waves in Fluid-Filled Cylinder, Wilton W. King and Daniel Frederick, EM5:Oct 68:1215:6188

Transmission Lines Probe a New Frontier, The Ocean, Ian Watson, Joseph A. Fischer and Lawrence A. Salomone, EPCE:Aug 74:557

Transportation Research Needs in Civil Engineering, Robert F. Baker, TE3:Aug 71:541:8343

Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574

Use of Pipelines in the California Water Project, Alfred R. Golze, PL3:Nov 67:25:5584

Vibration Of Pipe Carrying Flowing Fluid, P. Srinivasan and V. Lakshminarayanan, TE2:May 70: 165:7265

Water-Hammer Charts for Various Types of Valves, Don J. Wood and S. E. Jones, HY1:Jan 73:167: 9500

Wave Forces on Cylinders Near Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, WW4:Nov 74:345:10944

Wave Forces on Pipeline, Melville S. Priest, PITO: 74:23

Wave Forces on Submerged Pipe Lines, Ernest F. Brater and Roger Wallace, CE13:72:III-1703

What's new in sewer-pipe—II, Virginia Fairweather, CE:July 74:79

Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52

Pipeline Terminals

Engineering the Trans-Alaska Pipeline, CE:Sept 72: 79

Pipeline Transportation

Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547

Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380

A Counter-Perspective on Pollution Problems, Jimmie L. Thomas, CE:Aug 74:80

Cross-Country Pipeline Construction, Frederick J. Seeger and John A. Havers, TE4:Nov 70:603:7667

Economic Design of Low Pressure Air Piping Systems, J. Michael Osborne, EE6:Dec 74:1263: 11031

Engineering the Trans-Alaska Pipeline, CE:Sept 72: 79

Estimating Natural Gas Pipeline Friction Parameters, Michael A. Stoner and Michael A. Karnitz, TE3: Aug 74:757:10762

Fluid Interaction with Fracture Propagation in Pipelines, Bernard Steverding and Vernon A. Nieberlein, TE3:Aug 74:583:10726

Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149

Large Diameter Pipe Under Combined Loading, Jack G. Bouwkamp and R. M. Stephen, TE3:Aug 73: 521:9907

Leaching of Pollutants from Wood-Chip Slurry, Takashi Asano, Alan T. Towlerton and Robert L. Sanks, EE4:Aug 74:855:10707

Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933

Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73: 245:9665

A Modern Metropolis Looks Ahead, William D. Hudson, TE4:Nov 74:801:10918

Offshore Pipeline Burial, Sjoerd C. Haagsma, TN: TE4:Nov 73:980:10117

Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539

Prestressed Cryogenic Pipelines, Marvin B. Gardner, Jr., TE2:May 74:489:10559

Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, TE3:Aug 74:733:10756

Research on Pipeline Flotation, Albert J. Bonar and Osman I. Ghazzaly, TE2:May 73:211:9718

Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549

Summary Report on Experimental Evaluation of Simulated Uncased Pipeline Crossings of Railroads and Highways, Everett C. Rodabaugh, Thomas J. Atterbury and G. L. Hinueber, UPC:Apr 71

Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386

The Trans-Alaska Pipeline Story, E. L. Patton, TE1: Feb 73:139:9573

Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574

The 1970's: Civil Engineering Forecast-Part III, Kneeland A. Godfrey, Jr., CE:July 70:51

Pipe Linings

Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327

Pipes

Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215

Development of a Plastic Strain Energy Absorbing Pipe Whip Restraint Design, Gene A. Esswein, SDNPF:Dec 73:171

Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804

Energy Loss at Pipe Junctions, Fred W. Blaisdell and Philip W. Manson, IR3:Sept 67:59:5411

Flow Field Surrounding a Suction Pipe Inlet, David R. Basco and William J. Apgar, HYB:Aug 73:121

General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205

Homogeneous Suspensions in Circular Conduits, Walter H. Graf and Ertan R. Acaroglu, PL2:July 67:63:5352

Nonconservative Stability by Finite Element, C. D. Mote, Jr., EM3:June 71:645:8204

Polyethylene Pipe Used For 36-in. Sewage Outfall, CE:Oct 72:58

Regression Model of Wave Forces on Ocean Outfalls, Ronald E. Johnson, WW2:May 70:289: 7275

Sanitary Sewer Extension Built Above Ground, R. Andrew Easley, Jr., CE:Apr 71:66

Seismic Resistant Design of Safety Class Structures and Equipment, Chang Chen, SDNPF:Dec 73:459

Self-Closing Irrigation Pipe Valve, Howard R. Haise and Meredith L. Payne, TN: IR3:Aug 72:517:9160

Some Basic Concepts on Flow in Branching Conduits (Abstract), James R. Villemonte, HYB:Aug 73:203

Steam Jet Force Decay, R. H. Greenwood, SDNPF: Dec 73:591

Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858

Stresses on Shallow Circular Pipe by Transformed Section, Rowland Richards, Jr. and Jagdish S. Agrawal, GT6:June 74:637:10631

Structural Analysis and Design of Pipe Whip Restraints, Frederick L. Moreadith, Garry J. Patterson, C. R. Angstadt and James F. Glova, SDNPF:Dec 73:201

Study of Pipe with Concrete Bedding-Part II, Harvey C. Olander and Gordon G. Robertson, TE1:Feb 70: 25:7087

Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386

Time History Dynamic Analysis of Pressurizer Discharge Piping System, F. L. Cho and Y. A. Patel, SDNPF:Dec 73:343

Transverse Elastic Buckling of Plane Pipe Gridworks, Alan I. Soler and Hooshang Afshari, TN: ST4:Apr 74:837:10456

Water Distribution Systems Analysis, Uri Shamir and Charles D.D. Howard, HY1:Jan 68:219:5758

World's Largest Log-Periodic Antenna, Yen H. Dong, ST9:Sept 71:2371:8400

Pipes (Tubes)

Boundary-Layer Development at Curved Conduit Entrances, Palepu V. Rao, HY1:Jan 68:195:5756

Homestake Delivery System Pipeline, Donald E. Campbell, Thomas A. Marlow and Roy L. Wright, PL2:July 67:71:5353

Hydraulics of Spatially Varied Pipe Flow, Walter W. Hu, HY6:Nov 67:281:5599

Submarine Floats in Steel Pipe Liner, Merrill R. Cotten, CE:Dec 70:28

What's New in Water and Sewer Pipe, Kneeland A. Godfrey, Jr., CE:Oct 70:46

Piping (Erosion)

Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507

The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551

Clay Chemistry and Slope Stability, James K. Mitchell and Richard J. Woodward, TN: SM10:Oct 73:905:10042

Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:I237

The Failure of Laguna Dam, Raul J. Marsal and Wolfang Pohlenz, PES:72:I-489

Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653

Internal Piping and Shear Deformation. Victor Braunig Dam -- San Antonio, Texas, Ralph F. Reuss and John W. Schattenberg, PES:72:I-627

Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589

Piping Systems

Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115

Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173

Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804

Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227

Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219

Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151

Pit Recharge

Artificial Recharge in Water Resources Management, Marvin J. Dvoracek, IR2:June 71:219:8185

Placement

Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181

Shotcrete Safety and Environmental Control, Robert C. Bates, SUSS:July 73:130

Placing

Dworshak Dam: Advanced Systems for Producing Aggregates and Placing Concrete, G. M. Shupe, CE:Mar 69:35

Plane Structures

Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288

Stiffness Center Method, Hayrettin Kardestuncer, ST7:July 74:1421:10673

Weight Optimization of Plane Trusses, Samuel L. Lipson and Krishna M. Agrawal, ST5:May 74:865: 10521

Planing

Consideration of Alternatives in Decision Making, Ellis L. Armstrong, EI2:Apr 74:119:10498

Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73: 485:10179

Planning

Additions To Chief Joseph Dam Power Project, A. Lee Warbington, PO2:Mar 71:493:7970

Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152

Analysis of Transportation Planning Education, Lester A. Hoel, TE2:May 70:123:7255

Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884

Application of Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE1:Feb 74:61:10322

Architects and Planners — Introduction, M. D. Morris, CEWAU:74:209

Automation in California's State Water Project, Robin R. Reynolds and Welby R. Madsen, PL3: Nov 67:15:5574

Base Year Trip Tables for Statewide Traffic Models, Dana E. Low, TE3:Aug 69:559:6752

Behavioral Perspective for Transportation Planning, D. Geoffrey Hayward, MTI:May 72:27

Berth Planning by Evaluation of Congestion and Cost, Stavros N. Nicolaou, WW4:Nov 67:107:5577

Bikeway Planning and Design, H. M. Huffman, Jr., BP73:Dec 73:655

Bikeway Planning/Construction - A PR Tool, John F. Graham, BP73:Dec 73:200

Budget Constraints and Multiobjective Planning, Arthur Maass and David C. Major, PP3:July 72: 359:9064

Channel Rectification Engineering Survey Program, John M. Shields, SU1:May 71:61:8119

Citizen Participation: Here to Stay, Gene E. Willeke, CE:Jan 74:78

Citizens--A Vital Part of Transportation Planning, Arnold M. Cogan and Wallace A. Dela Barre, TN: TE1:Feb 74:289:10311

City Planning Bibliography, George C. Bestor and Holway R. Jones, CPB:72, 518pp.

Civil Engineers in Urban Planning, Fifty Years of Accomplishment, 1923-1973, Lawrence E. Miller, Chmn., UP2:Nov 74:115:10939

Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812

Coastal Waters and the Nation, Edward Wenk, Jr., CE:June 69:52

Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025

The Comprehensive Plan in Transportation Planning, Kurt W. Bauer, TE3:July 70:421:7493

Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85

Comprehensive Unified Land Data System, Robert N. Cook, SU1:Oct 69:103:6851

Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39: 10015

Computer Controls for Aqueduct Operation, Alfred R. Golze, PL1:Oct 68:19:6145

Conception Investigation and Design of Arrow Dam, Keith A. Henry and Nigel P. Grant, PO1:May 68: 41:5940

Construction Expediting, Arthur Monsey, CO1:June 70:19:7356

Construction Planning in South East Asia, Omar E. Rood, Jr. and John L. Richards, CO2:Sept 72:331: 9217

Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138

Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403

Critique of Water Pollution Control Act, Anthony H.J. Dorcey and Irving K. Fox, EE1:Feb 74:141: 10326

Decision Criteria for Using Stochastic Hydrology, George K. Young, Jr., Gerald T. Orlob and Larry A. Roesner, HY4:Apr 70:911:7209

Design Concept for Assigning Urban Space, Richard W. Cockfield and Virginia K. Handa, UP2:Dec 71: 191:8582

Designing Arterial Streets for Safety, Laurence A. Dondanville, TE1:Feb 71:43:7885

Development of a Planning Program: A Case Study, William K. Johnson, Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71

Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367: 10227

Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100

Dynamic Programming for Conjunction Water Use, Gert Aron and Verne H. Scott, HY5:May 71:705: 8145

The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267

Effect of Intake Elevation and Operation on Water Temperature, Walter O. Wunderlich and Rex A. Elder, HY6:Nov 69:2081:6917

Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589

Engineering the Trans-Alaska Pipeline, CE:Sept 72: 79

Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361: 8811

Environmental Impact Statements Discussed, CE:Feb 73:61

Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994

Environment by Design, William L. Slayton, CE:Oct 71:85

Estimation and Use of Water Production Functions in Crops, Dan Yaron, IR2:June 71:291:8208

Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1: Jan 72:33:8657

Evaluation System for Multiple Objective Planning, Charles F. Lemon, IRS:Sept 72:371

Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970

Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE: Sept 72:54

Forecasting Water Demands and Systems Capabilities, Wyndham J. Roberts, Sandor C. Csallany and Neil G. Towery, SA6:Dec 70:1349: 7745

Fundamentals of Comprehensive Environmental Planning, David A. Bella, EI1:Jan 74:17:10267

The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85

Future Transportation Planning for People by UMTA, Carlos C. Villarreal, MTI:May 72:17

Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2: Dec 71:149:8568

General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959

General Financial Programs for Regional and Large Wastewater Systems, Edwin A. Wells and Jack H. McMinn, CWFE:Mar 71:147

Goals and Objectives, Elizabeth J. McLean and Martin E. Goldsmith, MTI:May 72:267

Goals Established for ASCE Activities by the Committee on Society Objectives, Planning and Organization, Longino A. Woodman, Chmn., CE: Feb 74:39

Goals for Dallas Program, Erik Jonsson, CE:Sept 72: 58

Grouping Algorithms for Statewide Loadmeter Surveys, Shiva K. Pant and Frederick J. Wegmann, TE3:Aug 71:421:8288

Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155

Hydrologic Concepts in Suburban Planning, Ed L. Reed, IRS:Sept 72:185

Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066

Inclusion of Social Values in Facility Location Planning, David Morris, UP1:July 72:17:9023

Incorporating Highway Safety into Level of Service, Walter J. Diewald, TE2:May 74:417:10557

Information Utilization in Project Planning, Donald E. Kawal, CO2:Nov 71:227:8505

Integrated Measurement Framework for Transportation Planning, George C. Wickstrom, TE2:May 72:275:8910

Integrating the Airport into the Community Plan, Joseph A. Foster, TE2:May 69:279:6530

Introduction to Tall Buildings Proceedings, Lynn S. Beedle, TB:73:C-1

Issues in Statewide Transportation Planning, Joseph S. Drake and Lester A. Hoel, TE3:Aug 70:379:7480

The Legislation of Balance, Milton Pikarsky, TE3: Aug 73:483:9938

Licensure of Planners and Its Effect on Civil Engineers, Kenneth P. Norrie, PP1:Oct 71:161: 8463

Management Structure for Irrigation, Richard A. Smith, IR4:Dec 70:475:7722

Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9

Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275: 9204

Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261

Mobile Home Parks and American Municipalities, Stephen Sussna, UP2:Dec 71:139:8562

Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541

Multiobjective Planning for Environmental Quality, George H. Wallen, IRS:Sept 72:359

Municipal Considerations in Transportation Planning, Richard B. Robertson, TE1:Feb 69:1:6378

The Municipal Engineer's Role in Planning Water Resources Development, Mercel J. Shelton, PP1: Dec 67:37:5668

Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131

New Approach to Site Selection Studies, W. Ray Seiple, PO1:July 74:63:10643

The New City of Columbia, Md., Edwin Baker, CE: Sept 70:57

New Directions for Wastewater Collection and Disposal, Daniel A. Okun, CWFE:Mar 71:157

Open Space Accessibility for Recreation, Lawrence D. Mann, UP2:Dec 71:207:8607

Opportunities for Civil Engineers in Planning, Alan M. Voorhees, CE:Sept 69:96

Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972

Origin, Purpose, and Status of Project, Robert A. Nelson, TE4:Nov 70:439:7655

Orthophotomapping for Prudhoe Bay Development, Thomas J. O'Brien, SU2:Nov 71:199:8499

Overall Planning of the Bay Area Rapid Transit DistrictProject, David G. Hammond, TE2:May 69: 347:6548

A Parallel Processing Approach To Bridge Planning, Andrew K.C. Wong and Tung Au, EC5:70:155

Pedestrian Precincts in City Centers, Robert Sewall Browne, BP73:Dec 73:248

Planning and Estimating Underground Construction, by Albert D. Parker (Book Review), Joseph C. Kellogg, CE:July 71:22

Planning Comprehensive Solid Wastes Management Systems, H. Lanier Hickman, Jr., SA6:Dec 68:1147: 6303

Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045

Planning Construction of Repetitive Building Units, Robert I. Carr and Walter L. Meyer, CO3:Sept 74: 403:10812

Planning Economical Tunnel Surveys, Bruce J. Thompson, SU2:Nov 74:95:10906

Planning for Memphis Medical Center Traffic and Parking, Wm. H. Claire and Randall A.P. Johnson, TE1:Feb 71:51:7882

Planning Major Activity Center Distributor Systems, Michael J. Demetsky and Lester A. Hoel, TE1:Feb 74:237:10319

Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909

Planning Standards for Storm Drainage, Myron D. Calkins, UP1:Mar 70:53:7133

Progress Model for Construction Activity, Robert I. Carr, Thomas O. Brightman and Franklin B. Johnson, CO1:Mar 74:59:10428

Project Planning, John M. Shields, SU1:July 72:61: 9041

Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830

Promotion as a Bikeway Planning Factor, Norman R. Hawirko, BP73:Dec 73:661

Proposed Third Power Plant at Grand Coulee Dam, Harold G. Arthur, PO1:Mar 67:15:5148

Proposed Transportation and Visitor Center, Robert W. Harris, TE3:Aug 70:301:7459

Quality Related Costs of Regional Water Users, Michael B. Sonnen, HY10:Oct 73:1849:10076

Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35

Replacement-Lock and Dam No. 26: Plans Considered, Richard C. Armstrong, WW1:Feb 70: 49:7071

Report on the Session on Planning for Clean Water in Terms of Ecology and the Social Environment, William F. Garber, CWFE:Mar 71:35

Research and Planning in Fluid Mechanics, Stephen J. Kline, HY5:May 72:765:8898

Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115

River-Basin Planning for Private Development, Leonard A. Lovell, Clarence N. Freeman and Alvin S. Goodman, PO1:May 68:67:5946

Safe Yield of Aquifers: An Economic Reformulation, Robert A. Young, IR4:Dec 70:377:7719

Satisfying Water Needs in Southern California, Jack J. Coe, IR2:June 71:233:8193

Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73: 81:9832

Service Volumes for Functional Classification, Thomas R. Bright, TE4:Nov 70:561:7671

Simulation of Waterway Transport Systems, Joseph L. Carroll and Michael S. Bronzini, TE3:Aug 71: 527:8311

Simulation Techniques for Water Project Analyses, Milton L. Holloway and Lial F. Tischler, IR3:Sept 74:211:10784

The State Of The Art of Planning, William S. Pollard, Jr. and Daniel W. Moore, UP1:Apr 69:27: 6517

Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, J. C. Orman, Chmn., ASC73: Mar 73:107

Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436

Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1

Surface Water Resources Planning in Hudson Basin, Gerald T. McCarthy and Nicholas L. Barbarossa, HY2:Mar 68:375:5841

Systems Analysis in Airport Master Planning, Christian S. Young and Joseph Nemec, Jr., TE4: Nov 74:933:10937

Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476

Technical Movie of Papago Freeway, John Girand, TE4:Nov 71:619:8506

The Tempe Bikeway Study, Elizabeth A. Drake, BP73:Dec 73:297

Theory and Practice of Public Participation in Planning, Gene E. Willeke, IR1:Mar 74:75:10391

Topographic Maps for Construction Planning, Robert H. Lyddan, SU1:Apr 70:51:7221

Transportation Access to Special Generators, Frederick J. Wegmann, John Ojo and Michael Kennedy, TE3:Aug 74:643:10728

Transportation in Regional Plan for 1970's, W. John Hossack and J. Richard Hocking, TE4:Nov 70:633: 7648

Transportation Planning for Urban School Systems, Patrick R. Pickens and John M. Tyler, TE2:May 74:461:10555

Trends in Airport Planning, Reginald J. Sutherland, ASC73:Mar 73:193

Turn Penalty Effects on Minimum Time Paths, Donald L. Woods, J. T. Brudeseth and Vergil G. Stover, TE4:Nov 69:659:6896

Unique Role of Water in a Developing Economy, Clark N. Crain and David W. Greenman, IR1:Mar 69:79:6439

Urban Goods Movement Planning Methodology, Arnim H. Meyburg, Walter J. Diewald and Garrison P. Smith, TE4:Nov 74:791:10914

Urban Mass Transportation Planning, Lyle G. Wermers, UP1:Mar 70:41:7128

Urban Planning and Development of River Cities, Arnold H. Vollmer, UP1:Mar 70:59:7144

Urban Renewal in White Plains, N.Y., J. Michael Divney, CE:Sept 69:69

Urban Renewal-Past, Present and Future, John W. Shively, CE:Sept 69:61

Use of Simulation in Airport Planning and Design, Dana E. Low, TE4:Nov 74:985:10954

Use of Systems Analysis in Water Resources Planning, William K. Johnson, HY9:Sept 72:1543:9174

Versatility and Expandability of Pretreatment, Rolf Eliassen and D. F. Coburn, SA2:Apr 69:299:6514

Views of Port Industry, Roger H. Gilman, WW1:Feb 71:3:7919

Water Resources Planning Model, John F. Brotchie, TN: HY10:Oct 71:1801:8413

West Virginia Commercial Air Trip Generations, Dennis C. Judycki, Frederick J. Wegmann and Everett C. Carter, TE2:May 70:185:7281

Plant Ecology

The Cross-Florida Barge Canal: A Lesson in Ecology, Suzy Fisher, CE:Apr 71:44

Plant Location

A Guide for Urban Planning-Chapter IV: Commercial Land Planning, Fred W. Tuemmler, UP1:Aug 68:31:6086

Plants

Notes on Trees and Tree Planting, Hans F. Bell, CE: July 73:77

Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293

Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73:133:9783

Variable Respiration in Aquatic Plant Communities, Archie J. McDonnell and Dennis W. Weeter, SA2: Apr 72:325:8852

Plants (Botany)

Environmental Aspects of Aquatic Plant Control, Thomas R. Bartley and Edward O. Gangstad, IR3: Sept 74:231:10810

Estimation and Use of Water Production Functions in Crops, Dan Yaron, IR2:June 71:291:8208

Plastic Analysis

Analysis of Elastic-Plastic Shells of Revolution, Mahmoud Khojasteh-Bakht and Egor P. Popov, EM3:June 70:327:7354

Approximate Yield Surface Equations, Glenn A. Morris and Steven J. Fenves, EM4:Aug 69:937:6741

Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127

Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288

Dynamic Analysis of Multibay Multistory Frames, Masaaki Suko and Peter F. Adams, ST10:Oct 71:2519:8443

Inelastic Behavior Under Cyclic Loading, Egor P. Popov, TB:73:II-15-383

Interaction Between Frames and Precast Panel Walls, Atle Gjelsvik, ST2:Feb 74:405:10374

Plane Stress Limit Analysis by Finite Elements, Ted B. Belytschko and Philip G. Hodge, Jr., EM6:Dec 70:931:7746

Plastic Analysis and Design, Summary Report, George C. Driscoll, Jr., TB:73:II-15-399

Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694

Plastic Analysis of Transversely Loaded Frames, Neil Jackson, ST8:Aug 71:2047:8284

Plastic Design for Buildings, George C. Driscoll, Jr., CE:Apr 69:56

Recent Developments in Plastic Design Practice, Lynn S. Beedle, Le-Wu Lu and Lee C. Lim, ST9: Sept 69:1911:6781

Rotation Capacity of Beams Under Moment Gradient, A. F. Lukey and Peter F. Adams, ST6: June 69:1173:6599

Strength and Behavior of an Inelastic Hybrid Frame, Peter Arnold, Peter F. Adams and Le-Wu Lu, ST1: Jan 68:243:5759

Tests on Steel-Frame, Shear-Wall Structures, Sauren N.G. Majumdar and Peter F. Adams, ST4:Apr 71:1097:8031

Unified Approach to the Theory of Plastic Structures, M. Z. Cohn, Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246

Yielding in Framed Structures Under Dynamic Loads, Navin C. Nigam, EM5:Oct 70:687:7613

Plastic Deformation

Post-Elastic Deflection of Plates, Roger Hooke, ST4: Apr 70:757:7206

Plastic Design

Experiments on Nonsway Structural Subassemblages, Eugene L. Sheninger and Le-Wu Lu, ST3:Mar 70:573:7159

Fully Plastic Analysis and Design, State-of-Art Report 4, A. L.L. Baker, TB:73:III-22-415

Load Carrying Capacity of Simple Composite Columns, J. W. Roderick and D. F. Rogers, ST2: Feb 69:209:6412

Local Plastic Buckling of A514 Steel Members, John F. McDermott, ST9:Sept 69:1837:6761

Optimal Flexure Fields for Corners, George I. N. Rozvany, TN: EM4:Aug 74:10692

Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107:10041

Plastic Bending of A514 Steel Beams, John F. McDermott, ST9:Sept 69:1851:6762

Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279

Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, M. R. Horne, TB:73:II-15-311

Probability of Plastic Collapse Failure, James L. Jorgenson and John E. Goldberg, ST8:Aug 69:1743:6751

Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337:9404

Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293

Shakedown of Grids, Dale G. Eyre and Theodore V. Galambos, ST10:Oct 73:2049:10049

Shakedown Tests on Steel Bars and Beams, Dale G. Eyre and Theodore V. Galambos, ST7:July 70:1287:7395

Stability and Drift Problem, State-of-Art Report 3, P. Dayaratnam and Y. C. Das, TB:73:II-15-303

Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72:327:8675

Plastic Flow

Shakedown Of Plastic Structures With Unstable Parts, Giulio Maier, TN: EM5:Oct 72:1322:9228

Plasticity

Analysis of the Triaxial Test for Granular Soils, Paul R. Paslay and Jay B. Weidler, EM3:June 69:587:6611

Bearing Capacities by Plasticity Theory, Hon-Yim Ko and Ronald F. Scott, SM1:Jan 73:25:9497

Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73:433:9816

Convenient Form Of Stress Invariants For Plasticity, Gyan C. Nayak and Olgierd C. Zienkiewicz, TN: ST4:Apr 72:949:8838

Cyclic Yield Reversal in Steel Building Joints, Egor P. Popov and Bruce R. Pinkney, ST3:Mar 69:327: 6441

Design Criteria for H-Columns under Biaxial Loading, Negussie Tebedge and Wai F. Chen, ST3: Mar 74:579:10400

Dynamic Response of Nonlinear Media at Large Strains, Joseph H. Heifitz and Carl J. Costantino, EM6:Dec 72:1511:9451

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344

Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914

Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6: Dec 72:1547:9435

Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72: 47:8717

Extensibility of Concrete and Theorems of Limit Analysis, Wai F. Chen, EM3:June 70:341:7369

Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980

Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72: 1529:9429

Further Studies of Inelastic Beam-Column Problem, Wai F. Chen, ST2:Feb 71:529:7922

General Analysis of Laterally Loaded Beam-Columns, Francois Cheong Siat Moy, ST6:June 74: 1263:10625

Inelastic Buckling of Axisymmetric Shells, James C. Hayes and Lawrence H.N. Lee, EM6:Dec 70:1107: 7765

Inelastic Response of Frames to Dynamic Loads, Donald G. Toridis and Khalilollah Khozeimeh, EM3:June 71:847:8205

Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, Ben Kato and Le-Wu Lu, TB:73:II-16-463

Limit Analysis of Plane Problems in Soil Mechanics, John Lysmer, SM4:July 70:1311:7416

Limit Analysis Of Stability Of Slopes, Wai F. Chen and Max W. Giger, SM1:Jan 71:19:7828

Limit Pressures of Rigidly Clamped Circular Cylindrical Shells, Hwa-Shan Ho, EM4:Aug 74:757: 10759

Nonisothermal Kinematic Hardening Law in Plasticity, Tse Yung Chang, TN: EM2:Apr 73:423: 9641

Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860

Optimum Design of Reinforced Concrete Tanks, Robert E. Melchers and George I. N. Rozvany, EM6:Dec 70:1093:7739

Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72: 1697:9154

Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255

Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694

Plastic Analysis of a Plate Sealing a Fluid, Richard H. Lance and David N. Robinson, EM6:Dec 70: 1183:7742

Plastic Buckling of Shells Under Cyclic Loading, Kenneth W. Neale and John Schroeder, EM1:Feb 74:63:10345

Plastic Indentation of Metal Blocks by Flat Punch, Wai F. Chen, EM3:June 70:353:7370

Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72: 1769:9148

Response of Ground-Excited Elastoplastic Systems, Anestis S. Veletsos and William P. Vann, ST4:Apr 71:1257:8075

Scale and Boundary Effects in Foundation Analysis, James Graham and John Gordon Stuart, SM11:Nov 71:1533:8510

Simple Interaction Equations for Beam-Columns, Wai F. Chen and Toshio Atsuta, ST7:July 72:1413:9020

Soil Mechanics and Theorems of Limit Analysis, Wai F. Chen, SM2:Mar 69:493:6450

Three-Dimensional Inelastic Subassemblage Design, John F. Lott, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1445:8108

Two Nonlinear Beams with Definitions of Ductility, Melbourne F. Giberson, ST2:Feb 69:137:6377

Ultimate Strength of Biaxially Loaded Steel H-Columns, Wai F. Chen and Toshio Atsuta, ST3: Mar 73:469:9613

Yield and Failure of a Clay Under Triaxial Stresses, Raymond N. Yong and Edward McKyes, SM1:Jan 71:159:7790

Yielding of Fiber Reinforced Tresca Material, John D. Helfinstine and Richard H. Lance, EM4:Aug 72: 849:9132

Plasticity Index

Rapid Determination of Plasticity Index, Roland A. Pettitt, CE:May 71:74

Plastic Limit

Density Of Adsorbed Water At Plastic Limit, Edward J. Doheny and A. Alexander Fungaroli, TN: SM5:May 72:523:8865

Plastic Pipes

Friction Factors for Corrugated Plastic Tubing, Lee F. Hermsmeier and Lyman S. Willardson, IR3:Sept 70:265:7531

New Considerations and Experimental Data on Plastic Pipes, Praxitelis A. Argyropoulos, TN: TE2: May 73:431:9688

Plastic Relining of Small-Diameter Pipes, Raymond M. Brenner, SA2:Apr 70:297:7216

Subsurface Irrigation Easily Automated, Sterling Davis and Sheldon D. Nelson, IR1:Mar 70:47:7135

Plastic Properties

An Analytical Description of the Behavior of Granular Media, Jay B. Weidler and Paul R. Paslay, EM2:Apr 69:379:6491

Applications of Limit Plasticity in Soil Mechanics, W. D. Liam Finn, SM5:Sept 67:101:5424

Bearing Capacity of Concrete Block or Rocks, Wai F. Chen and Daniel C. Drucker, EM4:Aug 69:955: 6742

Bearing Capacity of Concrete Blocks, Wai F. Chen and Sergio Couarrubias, EM5:Oct 71:1413:8421

Bounds on Large Dynamic Deformations of Structures, Tomasz Wierzbicki, EM3:June 70:267: 7344

Buckling of Inelastic Tapered Pin-Ended Columns, Franklin J. Appl and James O. Smith, EM2:Apr 68: 549:5897

Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793: 10057

Elastic-Plastic Analysis of Frameworks, Glenn A. Morris and Steven J. Fenves, ST5:May 70:931:7293

Elastic-Plastic Behavior of Intersecting Shells, Fernand Ellyin, EM1:Feb 69:69:6387

Elastic-Plastic Bending of Rectangular Plates, Gerald W. May and Kurt H. Gerstle, ST7:July 71:1863: 8237

Inelastic Bar Subjected To Thrust and Cyclic Bending, Ben Kato and Hiroshi Akiyama, ST1:Jan 69:33:6335

Inelastic Bending of Wood Beams, Borislav D. Zakic, ST10:Oct 73:2079:10071

Limit Analysis of Plates Under Combined Loads, Kenneth W. Neale and Niels C. Lind, EM5:Oct 70: 711:7610

Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746

A Path Criterion for Deformation Plasticity Theory, Kerry S. Havner, EM3:June 69:747:6630

Plane Strain Consolidation by Finite Elements, John T. Christian and Jan Willem Boehmer, SM4:July 70:1435:7437

Plane Stress Limit Analysis by Finite Elements, Ted B. Belytschko and Philip G. Hodge, Jr., EM6:Dec 70:931:7746

Plastic Behavior of Beams with Reinforced Holes, Judith G. Congdon and Richard G. Redwood, ST9: Sept 70:1933:7561

Plastic Design of Multistory Frames by Computer, George C. Driscoll, Jr., James O. Armacost, III and William C. Hansell, ST1:Jan 70:17:6995

Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906

Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595

Spherical Waves in Inelastic Materials, Jeremy Isenberg and Anjan K. Bhaumik, EM3:June 71:901: 8207

Stress Analysis of Contractive or Dilative Soil, Ian M. Smith and Stephen Kay, SM7:July 71:981:8263

Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6: Dec 72:1417:9446

Ultimate Biaxial Capacity of Boxed Steel Columns, Peter J. Marshall and John S. Ellis, ST9:Sept 70: 1873:7515

Wind Action on Simple Yielding Structures, Barry J. Vickery, EM2:Apr 70:107:7204

Plastics

Artificial Playing Surface, Jim Clifton, CEWAU:74: 90

Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168

Concrete-Polymer Composites, Lawrence E. Kukacka, Peter Colombo, Meyer Steinberg and Bernard Manowitz, ST9:Sept 71:2217:8363

Design of FRP Fluid Storage Vessels, Frank J. Heger, ST11:Nov 70:2465:7698

Fatigue Characteristics of Selected Plastics, Harry J. Duffey, Chmn., ST7:July 70:1567:7429

Flexural Wrinkling in Foam-Filled Sandwich Panels, Ken P. Chong and John A. Hartsock, EM1:Feb 74: 95:10370

Impact of Spheres on Ice, Yin-Chao Yen, Fuat Odar and Lynwood R. Bracy, EM5:Oct 70:641:7607

Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998

New Considerations and Experimental Data on Plastic Pipes, Praxitelis A. Argyropoulos, TN: TE2: May 73:431:9688

Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938

Plastic Liners for CANDU Containment Structures, E. C. Smith, ST10:Oct 71:2583:8435

Plastics in Construction, H. C. Browne, CE:Aug 69: 39

Polymer as Surface Treatment for Concrete, Alvin H. Meyer, ST6:June 74:1205:10615

Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579: 8947

Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561: 8990

Why Not Plastics Bridges?, Fred C. McCormick, ST8:Aug 72:1757:9143

Plastic Theory

Elastic Plastic Bending of Circular Plates, Narendra K. Srivastava and Archibald N. Sherbourne, EM1: Feb 71:13:7902

Shakedown of Strain-Hardening Structures, John D. Meyer and Kurt H. Gerstle, ST1:Jan 72:95:8641

Yield Points For Partially Loaded Spherical Domes, John Schroeder and Prasanta Roy, EM1:Feb 71:63: 7888

Plate Girders

Fatigue Strength of Hybrid Plate Girders, A. Anthony Toprac and Murugesam Natarajan, ST4: Apr 71:1203:8069

Ultimate Static Strength of Plate Girders from Tests, Max A.M. Herzog, ST5:May 74:849:10530

Plate Load Tests

Field Studies of Response of Peat to Plate Loading, J. B. Forrest and I. C. MacFarlane, SM4:July 69: 949:6652

Plates

Analysis of Floating Plate Under Ocean Waves, Yi-Kwei Wen and Masanobu Shinozuka, WW2:May 72:177:8889

Analysis of Plate Bending by Triangular Element, William Y.J. Shieh, Seng-Lip Lee and Richard A. Parmelee, EM5:Oct 68:1089:6176

Analysis of Space Truss as Equivalent Plate, William R. Flower and Lewis C. Schmidt, ST12:Dec 71: 2777:8569

Assured Upper Bounds via Complementary Energy, Carl H. Popelar, EM4:Aug 74:623:10704

Axisymmetric Finite Deflection of Circular Plates, Gordon B. J. Mah, EM5:Oct 69:1125:6832

Buckling of Clamped Rectangular Plates, Lotfi El-Bayoumy, EM4:Aug 71:1277:8336

Buckling of Light-Gage Corrugated Metal Shear Diaphragms, John T. Easley and David E. McFarland, ST7:July 69:1497:6683

Buckling of Plates of Abruptly Varying Stiffness, P. Paramasivam and Jawalker K. Sridhar Rao, ST6: June 69:1313:6635

Buckling of Simply Supported Folded Plates, Michel L. Mikhail and Sidney A. Guralnick, EM5:Oct 71: 1363:8414

Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73: 1023:10054

Discrete-Element Analysis for Discontinuous Plates, William Ronald Hudson and Hudson Matlock, ST10:Oct 68:2257:6157

Effective Width of Thin Plates in Compression, George Abdel-Sayed, ST10:Oct 69:2183:6837

Flexure Of Thick Rectangular Viscoelastic Plates, S. Srinivas and A. K. Rao, TN: EM3:June 72:763: 8931

Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478

Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, Ben Kato and Le-Wu Lu, TB:73:II-16-463

Interaction of Ocean Waves with Floating Plate, Yi-Kwei Wen, EM2:Apr 74:375:10492

Maximum Strength Elastic Structural Design, J. E. Taylor, EM3:June 69:653:6617

Nonlinear Beam and Plate Elements, Jimmy H. Smith, ST3:Mar 72:553:8768

Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860

Optimum Stiffness and Strength of Elastic Structures, Ernest F. Masur, EM5:Oct 70:621:7580

Plastic Analysis of a Plate Sealing a Fluid, Richard H. Lance and David N. Robinson, EM6:Dec 70: 1183:7742

Post-Buckling of Geometrically Imperfect Plates, Ralph G. Dawson and Alastair C. Walker, ST1:Jan 72:75:8630

Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485

Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193

Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447

Some Orthotropic Skew Plate Finite Element Results, Gerard R. Monforton, TN: ST4:Apr 72:955:8838

Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368

Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194

Stresses in Circular Plates on Elastic Foundations, Richard Bolton, EM3:June 72:629:8972

Thin Laminates with Homogeneous Elastic Properties, Joel I. Abrams and Ernest R. Scheyhing, EM6:Dec 70:847:7758

Transverse Anisotropy In Disks And Plates, Sridhara D.N. Murthy and Archibald N. Sherbourne, TN: EM4:Aug 72:1005:9082

Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau-Kai Cheung, EM5:Oct 72: 1225:9233

Vibrations of Triangular Viscoelastic Plates, John S. Hewitt and Jagannath Mazumdar, EM6:Dec 74: 1143:11004

Viscoelastic Plate on Poroelastic Foundation, Eugene L. Marvin, EM4:Apr 72:911:9133

Water Wave Pressure on Horizontal Plate, Hsiang Wang, HY10:Oct 70:1997:7629

Plates (Structural Members)

Analysis of Rectangular Plates by Stiffness Method, Assad Abdul-Baki and Mudar Jamaluddin, EM3: June 74:547:10613

Analysis of Ribbed Plates, Donald L. Dean and Cyrus Omid'varan, ST3:Mar 69:411:6474

Analysis of Simply Supported Thick, Layered Plates, Yau-kai Cheung and Subrata Chakrabarti, TN: EM3:June 71:1039:8160

Analysis of Skewed Composite Girder Bridges, William C. Gustafson and Richard N. Wright, ST4: Apr 68:919:5890

Analysis of Skew Plates with Shear Deformation Using Natural Coordinates, Yair Tene and Izhak Sheinman, EM2:Apr 74:235:10487

Application of Dual Series to Rectangular Plates, Kraiwood Kiattikomol, Leon M. Keer and John Dundurs, EM2:Apr 74:433:10486

Behavior of Stiffened Curved Plate Model, Conrad P. Heins, Jr. and Robert L. Hails, ST11:Nov 69:2353: 6876

Bending of Clamped Orthotropic Sandwich Plates, G. Michael Folie, EM3:June 70:243:7340

Bending of Spectoral Plates with Clamped Edges, John W. Weber, TN: EM2:Apr 73:440:9641

Bending of Two-Layer Sandwich Plates, Jao-shiun Kao, TN: EM2:Apr 70:201:7193

Bridge Analysis Using Orthotropic Plate Theory, Conrad P. Heins, Jr. and Charles T.G. Looney, ST2:Feb 68:565:5822

Bridge Tests Predicted by Finite Difference Plate Theory, Conrad P. Heins, Jr. and Charles T.G. Looney, ST2:Feb 69:249:6421

Buckling and Vibrations of Polygonal and Rhombic Plates, Sanford B. Roberts, EM2:Apr 71:305:8030

Buckling of Continuous Circular Plates, A. S. J. Swamidas and Vincent X. Kunukkasseril, EM4:Aug 73:835:9900

Buckling of Multilayer Plates by Finite Elements, Harry R. Lundgren and Ahmed E. Salama, EM2: Apr 71:477:8051

Buckling of Polar Orthotropic Annular Plates, Kaja Vijayakumar and C. V. Joga Rao, EM3:June 71: 701:8171

Buckling of Reinforced Concrete Plates, Stuart E. Swartz and Vernon H. Rosebraugh, ST1:Jan 74:195: 10280

Buckling of Rhombic Plates, Patricio A. Laura and Joseph Grosson, TN: EM1:Feb 71:145:7858

Buckling of Simply Supported Skew Plates, Somayajulu Durvasula, EM3:June 71:967:8218

Circular Plate with Supported Edge-Beam, Rene Amon and John Dundurs, EM3:June 68:731:5971

Circular Sandwich Plates Under Eccentric Load, Jao-Shiun Kao, EM1:Feb 69:235:6413

Collapse of Clamped Variable Thickness Circular Plates, Helmut M. Haydl and Archibald N. Sherbourne, TN: EM6:Dec 73:1309:10187

Column-Plate Interaction in Flat Slab Structures, Dieter D. Pfaffinger, ST1:Jan 72:307:8670

Comparison Of Finite Elements For Plate Bending, John F. Abel and Chandrakant S. Desai, TN: ST9: Sept 72:2143:9162

Complementary Energy Method for Buckling of Plates, Cenap Oran, EM2:Apr 68:621:5911

Complex Variable Theory and Elastic Stability Problems, Patricio A. Laura and Paul Shahady, EM1:Feb 69:59:6386

Concrete Box-Girder Bridges as Sandwich Plates, J. G. Arendts and Wallace W. Sanders, Jr., ST11:Nov 70:2353:7695

Contact Between Plates and Sagged Supports, John Dundurs, Kraiwood Kiattikomol and Leon M. Keer, EM2:Apr 74:445:10485

Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774

Deflection of Circular Plate with Built-in Edges, Manuel A.G. Silva and Leon M. Keer, ST8:Aug 71: 2073:8319

Dynamics of Impulsively Loaded Circular Plates, Robert J. Green, EM2:Apr 71:413:8079

Dynamic Stability of Circular Cylindrical Sandwich Panels, Conor D. Johnson and Nelson R. Bauld, Jr., EM6:Dec 71:1643:8598

Dynamic Stability of Plates by Finite Elements, Johnny M. Hutt and Ahmed E. Salam, EM3:June 71:879:8211

Eccentrically Loaded Circular Plates on Columns, Kasem Chantaramungkorn, Pasidhi Karasudhi and Seng-Lip Lee, TN: ST1:Jan 73:234:9464

Effective Width of Steel Deck-Plate in Bridges, George Abdel-Sayed, ST7:July 69:1459:6673

Effect of Skew Penetration on Stress Concentration, Fernand Ellyin and Archibald N. Sherbourne, EM6:Dec 68:1317:6265

Elastic Buckling of Beam Flange Plates, Kuang-Han Chu and Albert J. Gouwens, TN: EM4:Aug 71: 1329:8273

Elastic Buckling of Stiffened Plates, Charles G. Culver and Clive L. Dym, TN: ST11:Nov 72:2641: 9374

Elastic Plastic Bending of Circular Plates, Narendra K. Srivastava and Archibald N. Sherbourne, EM1: Feb 71:13:7902

Elastic-Plastic Bending of Rectangular Plates, Gerald W. May and Kurt H. Gerstle, ST7:July 71:1863: 8237

Elasto-Plastic Analysis of Ribbed Plates, Harvey A. Kagan and G. G. Kubo, ST4:Apr 68:943:5892

Element Stiffness Matrix Generator, Richard H. Gunderson and Ayhan Cetiner, ST1:Jan 71:363: 7842

Experimental Verification of Discrete-element Solutions for Plates, Sohan L. Agarwal and William Ronald Hudson, TN: ST8:Aug 71:2159:8275

Explicit Triangular Bending Element Matrix, William S. Doyle and Robert L. Harrison, ST7:July 74:1459: 10680

Finite-Difference Methods for Plate Vibration Problems, Harold J. Salane and Hudson Matlock, ST3:Mar 69:441:6477

Finite Element Analysis of Plywood Plates, John McGlenn and Billy J. Hartz, ST2:Feb 68:551:5821

Finite Element Bending Analysis of Reissner Plates, Charles W. Pryor, Jr., Richard M. Barker and Daniel Frederick, EM6:Dec 70:967:7760

Finite Element Large Deflection Analysis of Plates, David W. Murray and Edward L. Wilson, EM1:Feb 69:143:6398

Finite Element Method for Elastic Plastic Plates, Ted B. Belytschko and Milan Velebit, EM1:Feb 72:227: 8724

Finite Element on Elastic Foundation, Henry T.Y. Yang, ST10:Oct 70:2083:7604

Finite Element Plate Bending Equilibrium Analysis, Edoardo Anderheggen, EM4:Aug 69:841:6715

Flexural Vibrations of Rectangular and Other Polygonal Plates, Yau-Kai Cheung and M. S. Cheung, EM2:Apr 71:391:8038

Flexure of Circular Plate by Concentrated Force, T. M. Lee, EM3:June 68:841:6006

Free Transverse Vibration of Flat Slabs, Paul P. Lynn and Nahit Kumbasar, EM1:Feb 69:255:6425

Full Range Analysis of Eccentrically Stiffened Plates, Anton W. Wegmuller, ST1:Jan 74:143:10286

Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828

Geometrically Nonlinear Finite-Element Analysis, Carlos A. Brebbia and Jerome J. Connor, EM2:Apr 69:463:6516

Grid Framework Method for Thick Plates in Flexure, Alan L. Yettram and Vincent McKinnon, TN: EM5:Oct 74:1073:10856

Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, EM3:June 74:599:10620

Improved Framework Method for Plates in Extension, Alan L. Yettram and Vincent McKinnon, TN: EM5:Oct 74:1067:10856

Influence Surfaces for Continuous Plates, Richard E. Woodring and Chester D. Seiss, ST1:Jan 68:211: 5755

Integral Equation Method for a Corner Plate, Cecil M. Segedin and D. Brickell, ST1:Jan 68:41:5711

Irregular Shaped Plates with Singularities, David H. Geiger, EM5:Oct 71:1533:8458

Iterative Method for Solving Rectangular Plates, B. Sen, S. Sengupta and T. K. Nath, ST1:Jan 72:135: 8644

Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271

Large Deflections of Arbitrarily Loaded Plated, Mandanapalli K. Prabhakara and Chun-Yuan Chia, TN: EM6:Dec 74:1282:10979

Large Deflections of Curved Plates, Henry W.L. Lee and Conrad P. Heins, Jr., ST4:Apr 71:1143:8045

Large Displacement Analysis of Thin Plates, James Colville, Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593

Limit Analysis Of Plates Under Concentrated Load, Philip V. McLaughlin, Jr., TN: EM4:Aug 70:509: 7444

Local and Overall Buckling of Cold-Formed Members, John T. DeWolf, Teoman B. Pekoz and George Winter, ST10:Oct 74:2017:10875

Minimal Design of Sandwich Axisymmetric Plates II, George J. Megarefs, EM1:Feb 68:177:5799

Nonconservative Stability by Finite Element, C. D. Mote, Jr., EM3:June 71:645:8204

Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746

Nonlinear Bending of Elastic Plates of Variable Profile, Sridhara D.N. Murthy and Archibald N. Sherbourne, EM2:Apr 74:251:10478

Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Numerical Method for Elastic Stability Problems, Chiyyarath V. Girijavallabhan, ST11:Nov 71:2691: 8530

Numerical Solution of Moderately Thick Plates, Rajabhau S. Deshmukh and Robert R. Archer, EM5:Oct 74:903:10860

Optimum Design of Prestressed Concrete Members, Chen H. Wang, ST7:July 70:1525:7422

Optimum Design of Prestressed Plates, Uri Kirsch, ST6:June 73:1075:9777

Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694

Post-Elastic Deflection of Plates, Roger Hooke, ST4: Apr 70:757:7206

Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491: 9326

Rational Analysis of Raft Foundation, Stephen J. Hain and Ian K. Lee, GT7:July 74:843:10683

Rectangular Plates with Elastic Edge Supports, Suresh T. Gulati and Walker M. Buehl, TN: EM4: Aug 70:521:7444

Response of Nonlinear Beams and Plates to Ponding, Ahmed E. Salama and Martin L. Moody, EM1:Feb 69:195:6402

Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595

Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876

Shell and Plate Analysis by Finite Elements, Rembert F. Jones, Jr., ST5:May 73:889:9744

Solution of Elastic Plates by Invariant Imbedding, Nestor Distefano and Jaime Schujman, EM5:Oct 71:1349:8424

Spaced Steel Columns, Bruce G. Johnston, ST5:May 71:1465:8109

Stability Behavior Illustrated by Simple Models, Alexander Chajes, ST6:June 69:1153:6598

Stability of Edge-Reinforced Circular Plate, Rene Amon and Otto E. Widera, TN: EM5:Oct 71:1597: 8412

Staggered Columns in Flat Plates, Maurice P. Van Buren, ST6:June 71:1791:8222

Strength Analysis of Corner Column-Slab Connections, E. Ramzy F. Zaghlool, ST1:Jan 73:53: 9471

Structural Response to Sonic Booms, Roland L. Sharpe and Garrison Kost, ST4:Apr 71:1157:8063

Test of a Reinforced Concrete Flat Slab, D. S. Hatcher, Mete A. Sozen and Chester P. Siess, ST6: June 69:1051:6585

Tests of Flat-Plate Corner Column-Slab Connections, E. Ramzy F. Zaghlool and H. A. Rawdon de Paiva, ST3:Mar 73:551:9616

Tests of One and Two-Story Flat Plate Models, C. Trevor Harnden, ST3:Mar 74:513:10392

Tests of Reinforced Concrete Flat Plate Floors, E. Ramzy F. Zaghlool, H A. Rawdon de Paiva and Peter G Glockner, ST3:Mar 70:487:7147

Thermal Buckling of Restrained Skew Plates, Mudlapur S. Suryanarayana Prabhu and Somayajulu Durvasula, TN: EM6:Dec 74:1292:10979

Ultimate Strength of Cellular Flat Plate, Unnikrishna S. Pillai and K. Sapru, TN: ST5:May 74:1162:10536

Unsymmetrical Bending of Prestressed Annular Plate, William E. Alzheimer and R. T. Davis, EM4:Aug 68:905:6066

Upper Bounds in Complementary Energy Method, Cenap Oran, EM4:Aug 71:1093:8289

Vibration of Circular Plates with Edge-Beams, Richard J. Stuart and John F. Carney, III, TN: EM4:Aug 73:907:9898

Volume Minimization of Thin Plates Subject to Constraints, Zachary Sherman and Ping-Chun Wang, EM3:June 71:741:8192

Platforms

Wave Force on a Platform with a Ribbed Bottom, Keith H. Denson and Melville S. Priest, CE13:72: III-1759

Playa Lakes

Optimal Utilization of Playa Water in Irrigation, Marvin J. Dvoracek and Theodore G. Roefs, OIDS: 72:597

Playgrounds

School Trip Safety and Urban Play Areas - A Study of the Young Pedestrian, Martin L. Reiss, BP73: Dec 73:96

Plotters

Automatic Drafting System Aids Wisconsin Bridge Design, Leon J. Schuchardt, CE:Feb 70:38

Computer Aids Draftsmen in Soil Profiles and Analysis, George Kisak and B. James Greenfield, CE:Feb 71:67

Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31

Coordinated Mapping Program Saves Money for County, Ivan F. Gennis and Joseph P. Allesandri, CE:Dec 73:45

Drafting Transformed by Plotter, Computer and Digitizer, Kenneth W. Nonnenman, CE:Feb 74:48

Plotting

Computer Plotted Prestressed Concrete Design Charts, Leonard Rice, ST3:Mar 71:863:7993

Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1: Feb 73:201:9576

Plugging

Clogging of Porous Column of Spheres by Sediment, Ramaswamy Sakthivadivel and Hans Albert Einstein, HY2:Feb 70:461:7075

Plumbing

Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327

Plumes

Buoyant Forced-Plumes in Cross Flow, Vincent H. Chu and Michael B. Goldberg, HY9:Sept 74:1203:10805
Computer Model for Thermal Plume, Robert E. Barry and David P. Hoffman, PO1:June 72:117:8985
Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189
Formulas for Convective Motion of Fluids, Gee Tsang, TN: EM1:Feb 71:155:7858
Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3
Model Versus Field Data on Thermal Plumes from Power Stations, Lawrence C. Neale and George E. Hecker, ISSF:Aug 72:399
Motion of Two-Dimensional Starting Plume, Gee Tsang and Ian R. Wood, EM6:Dec 68:1547:6321
Power Law Solutions for Vertical Plumes, Richard R. Brock, HY9:Sept 70:1803:7523
Swirling Shallow Submerged Turbulent Plumes, Jai P. Narain, HY9:Sept 74:1229:10820
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145
Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992

Plywood

Finite Element Analysis of Plywood Plates, John McGlenn and Billy J. Hartz, ST2:Feb 68:551:5821
Lateral Analysis of Plywood Diaphragms, Warren H. Bower, ST4:Apr 74:759:10494

Pneumatic Conveyors

Advance in Refuse Management, Eugene E. Dallaire, CE:Aug 74:82

Pneumatic Equipment

Use of Special Cements in Shotcrete, Madan M. Singh and Seymour A. Bortz, SUSS:July 73:200

Pneumatic Systems

Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363

Point Set Topology

Torsion of Bars of Regular Polygonal Cross Section, Enrique Romanelli, Mario J. Maurizi and Patricio A. Laura, EM2:Apr 72:415:8809

Poisson Density Functions

Queueing at Single-Berth Shipping Terminal, Alan J. Miller, WW1:Feb 71:43:7895

Poland

Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, Miroslaw Gorczyca, SA6:Dec 72:987:9458
External Blast, Stanislaw Kajfasz, TB:73:Ib-8-717
Interaction Approach in Poland, Stanislaw Kajfasz, TB:73:Ia-12-1149

Poles

How Safe are Your Poles?, Joseph R. Arena, ST7:July 73:1333:9848
Steel Highway Accessory Structures, Donovan S. Wolford, ST7:July 71:1991:8255

Poles (Supports)

Design of Steel Transmission Pole Structures, Gene M. Wilhoite, ST12:Dec 74:2449:11009
Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632
Prestressed Concrete Transmission Line Structures, Fred Ruckhaus, PO1:May 68:25:5934
Structural Timber Research at Forest Products Lab, Fred Werren, ST12:Dec 69:2891:6980
Unbalanced Tensions in Transmission Lines, David B. Campbell, ST10:Oct 70:2189:7622

Police

Bicycling Safety and Enforcement Programs - Why They Fail, Larry Wuellner, BP73:Dec 73:565
There Oughta Be A Law!, Norman A. Clarke, BP73:Dec 73:550

Policies

Charles Gilman Hyde dies at 97, Charles Gilman Hyde, CE:Nov 71:48
Engineering Policies, Politics, and Pragmatism, Robert F. Baker, TE1:Feb 74:121:10320
Optimization of an Existing Large Complex Drainage System, N. N. Khanal and Robert L. Hamrick, OIDS:72:503
Policies for Efficient Regional Water Management, W. Charles Howe and Blair T. Bower, IR4:Dec 70:387:7721
Policy Development--An Emerging Role for Civil Engineers, Robert F. Baker, PP1:Oct 71:35:8478
Public Policy Issues in Weather Modification, Dean E. Mann, IR3:Sept 69:375:6772
The State Of The Art of Planning, William S. Pollard, Jr. and Daniel W. Moore, UP1:Apr 69:27:6517

Political Aspects

Are Civil Engineers Socially Responsible?, David Crump, CE:Jan 72:59
Concepts for Ground-Water Regulatory District, Dale Twachtmann, EI1:Jan 74:69:10272
Policy Development--An Emerging Role for Civil Engineers, Robert F. Baker, PP1:Oct 71:35:8478
Dsc, Political Contributions, John E. Murray, CE:Nov 73:20
Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468
The U.S. Water Quality Program Part II, Eugene E. Dallaire, CE:Oct 71:81
Water Management and the Public, Duane W. Hill and Roy L. Meek, UWRM:71:43

Political Constraints

ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77

Political Objectives

The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667
Politics and Water Pollution, William H. Wisely, CE:Oct 70:41
Politics Of Water Resources Development, Daniel M. Ogden, Jr., SEA:70:353
Putting Pollution Problems In Perspective, Charles L. Gould, CE:Aug 73:64

Political Science

People, Planning, and the Political Process, Norman E. Jackson, PL1:Oct 68:29:6158
Putting Pollution Problems In Perspective, Charles L. Gould, CE:Aug 73:64

Pollution

Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
Analysis Techniques for Houston Ship Channel, Roy W. Hann, Jr., WW2:May 70:171:7258
Application of New Technology to the Solution of Environmental Problems, Ralph E. Fadum, PWS:Nov 72:219
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
The Cleaning of Gravel Beaches Polluted by Oil, E. H. Owens, CE13:72:III-2539

Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Cooling Water Sources For Power Generation, Louis G. Hauser, PO1:Jan 71:123:7804
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
Effects and Control of Highway Traffic Noise, James E. Shahan and George W. Kamperman, TE2:May 73:307:9726
Effects of Environmental Concerns on Education, Paul W. Purdom, CEE:Feb 74:1-508
Effects of Viscous Sublayer on Dispersion, Chin-lien Yen, SA6:Dec 69:1105:6971
The Engineer and the Environment, C. Maxwell Stanley, CE:July 72:78
Envirionment and Construction Management Engineers, David A. Spivey, CO3:Sept 74:395:10804
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
Legal Problems in Water Pollution Control, Dwight F. Metzler, HY1:Jan 74:221:10260
Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, SA6:Dec 70:1387:7769
Medicine -- Introduction, M. D. Morris, CEWAU:74:135
Monitoring Water Pollution by Remote Sensing, James P. Scherz, SU2:Nov 71:307:8550
Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253:9795
Natural Cleaning of Oil Polluted Seashores, Georges Drapeau, CE13:72:III-2547
Opening Remarks, Gerald Palevsky, CEWAU:74:138
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73:923:10200
Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468
Potable Water Availability on Long Oceanic Islands, Eugene W. Rochester, Jr. and George J. Kriz, SA5:Oct 70:1235:7627
Predicting Concentration Profiles in Open Channels, Harvey E. Jobson and William W. Sayre, HY10:Oct 70:1983:7618
Radial Dispersion in Ground-Water Flow, Bruce W. Hunt, EM6:Dec 74:1117:10998
Sewage Treatment System Odors and Air Pollutants, Ralph Stone, SA4:Aug 70:905:7456
Students Tackle Pollution Problems, Darrell J. Turner, CE:Sept 70:51
Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
USBR Specifications Focus on Environment, Bernard P. Bellport, CE:July 71:50
Vertical Transfer in Open Channel Flow, Harvey E. Jobson and William W. Sayre, HY3:Mar 70:703:7148
Waste-Induced Oxygen Uptake of an Alaskan Estuary, R. Sage Murphy and Ann P. Miller, SA2:Apr 68:345:5908
Wastes from the Preservation of Wood, E. Joe Middlebrooks, SA1:Feb 68:41:5785
Waterfront Renewal in Metropolitan Areas, Donald F. Wood, UP4:Dec 67:199:5673

Pollution Abatement
Assuring a Desirable Quality of Life, CE:Sept 71:73
Assuring a Desirable Quality of Life, PWS:Nov 72:237
Disposal Well Problems in Chicago and Bakersfield Areas, Ralph G. Berk, SA5:Oct 71:675:8405
Longitudinal Dispersion in Open Channels, Attila A. Sooky, HY4:July 69:1327:6697
St. Louis Cleans up the Mississippi, CE:May 72:61
Water Quality Monitoring For Pollution Control On The Continental Shelf, T. A. Wastler and Harold Berkson, CEO-II:70:221
Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70

Pollution Control
Application of New Technology to the Solution of Environmental Problems, Ralph E. Fadum, PWS:Nov 72:219
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
The Cleaning of Gravel Beaches Polluted by Oil, E. H. Owens, CE13:72:III-2539
Concrete Dam Design and Construction Improvements, Ellis L. Armstrong, ECCD:72:3
Control of Turbidity at Construction Sites, Melvin F. Katzer, ECCD:72:353
A Counter-Perspective on Pollution Problems, Jimmie L. Thomas, CE:Aug 74:80
Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
Land Use as a Factor in Coastal Water Quality, Percy H. McGauhey, CE13:72:III-2091
Natural Cleaning of Oil Polluted Seashores, Georges Drapeau, CE13:72:III-2547
PennState Civil Engineering Construction Education, Jack H. Willenbrock, CEE:Feb 74:1-628
Putting Pollution Problems In Perspective, Charles L. Gould, CE:Aug 73:64
Session III-Control of Pollution in Concrete Dam Construction, Dwight L. Glasscock, ECCD:72:391
Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
Steady-state Profile for Oil Barriers, Richard Robbins, David P. Hoult and Ralph H. Cross, III, TN: WW1:Feb 71:235:7891
Summary of Session I -- Recent Developments in Design and Construction of Concrete Dams, Charles F. Corns, ECCD:72:25

Polyelectrolytes
Virus Removal by Diatomaceous Earth Filtration, Malay Chaudhuri, Parviz Amirhor and Richard S. Engelbrecht, EE4:Aug 74:937:10732

Polyethylene
Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78
Polyethylene Pipe Used For 36-in. Sewage Outfall, CE:Oct 72:58
Treated Wood Foundations for Houses, CE:Oct 73:41

Polygons
Buckling and Vibrations of Polygonal and Rhombic Plates, Sanford B. Roberts, EM2:Apr 71:305:8030
School Buildings Feature Polygon Shape, German R. Gurfinkel, CE:Dec 70:31
Torsion of Bars of Regular Polygonal Cross Section, Enrique Romanelli, Mario J. Maurizi and Patricio A. Laura, EM2:Apr 72:415:8809

Polymer Concretes
Polymer-Cement Concretes for Field Construction, Sandor Popovics, CO3:Sept 74:469:10806
Polymer Shotcrete, James R. Graham, SUSS:July 73:418
Summary of Session X - Shotcrete Case Histories and Specialties, Kenneth D. Hansen, SUSS:July 73:436

What's New in Concrete?, CE:Jan 74:36

Polymeric Films

Lubricant And Polymer Reduction Of Sediment Adhesion, R. A. Erchul and Raymond J. Smith, CEO-II:70:621

Polymerization

Concrete-Polymer Composites for Underwater Applications, Lawrence E. Kukacka, Peter Colombo, Meyer Steinberg and Bernard Manowitz, CEO-II:70:969

Investigation of Polymer-Impregnated Brick Masonry, David W. Fowler and Thomas J. Fraley, ST1:Jan 74:1:10278

Polymer as Surface Treatment for Concrete, Alvin H. Meyer, ST6:June 74:1205:10615

Polymers

Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697

Polymer-Cement Concretes for Field Construction, Sandor Popovics, CO3:Sept 74:469:10806

Polymer Shotcrete, James R. Graham, SUSS:July 73:418

Polystyrene

Plastic Foam Serves as Lightweight Fill, Thomas A. Coleman, CE:Feb 74:68

Polyurethane Resins

Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579:8947

Polyvinyl Chloride

Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70

Pavement Joint Seals, Kneeland A. Godfrey, Jr., CE:Mar 72:42

Ponding

Ponding of Liquids on Flat Roofs, J. Chinn, A. H. Mansouri and Staley F. Adams, ST5:May 69:797:6539

Reduction of Urban Runoff Peak Flows by Ponding, Leonard Rice, IR3:Sept 71:469:8351

Response of Nonlinear Beams and Plates to Ponding, Ahmed E. Salama and Martin L. Moody, EM1:Feb 69:195:6402

Stability of Trusses Subjected to Ponding Loads, Ta Chao, TN: ST6:June 73:1327:9767

Structural Failures, Jack R. Janney, STF:73:11

Ponds

Enteric and Pathogenic Bacteria Dieoff Effects by Algae, E. M. Davis, M. Pen and Earnest F. Gloyna, NSCD:71:539

Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, NSCD:71:515

Pontoons

Lift Dock Combines Drydock and Transfer Platform, Amirikian Arsham, CE:July 71:37

Population

Assessing and Reporting Uncertainties, State-of-Art Report 1, Carl J. Turkstra and Haresh C. Shah, TB:73:Ib-10-919

Beltway and Tax Base Impacts, Floyd I. Thiel, UP1:Mar 73:105:9619

Construction Cost of Expressways, Barbara A. Huvane, TE2:May 71:173:8113

Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50

Public Service Facilities and the Environment, George E. Tomlinson, PWS:Nov 72:95

Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366

Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966

Population Growth

The Aftereffects of Annexation--A Case Study, Russell E. Helms, UP1:Apr 69:15:6490

The Engineer and the Environment, C. Maxwell Stanley, CE:July 72:78

Planning Cities for the Year 2000, John Fischer, CE:Sept 70:54

Public Service Facilities and the Environment, George E. Tomlinson, PWS:Nov 72:95

Putting Pollution Problems In Perspective, Charles L. Gould, CE:Aug 73:64

Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436

The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027

Populations

Population and People, William H. Wisely, CE:Dec 70:27

Pore Pressure

Analyses and Records -- Dutch Hollow Dam, Kenneth H. Kastman, PES:72:I-285

The Behavior of Foundations During Construction, T. William Lambe, SM1:Jan 68:93:5740

Braced Excavations, T. William Lambe and Edmund K. Turner, LS:70:149

Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295

Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689

Earthquake Wave Transmission Through Saturated Soil, Constantine N. Papadakis and Frank E. Richart, Jr., GT74:June 74:1

Effects of Loading Method on Triaxial Test Results, Raymond Lundgren, James K. Mitchell and James H. Wilson, SM2:Mar 68:407:5844

Embankment Pore Pressures During Construction, Walter C. Sherman, Jr. and Gerald W. Clough, SM2:Mar 68:527:5867

Evaluation of Pore Pressures Beneath and Embankment, David J. D'Appolonia, T. William Lambe and Harry G. Poulos, SM6:June 71:881:8213

Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435

Nonlinear Pore Pressure Equation, Jerru C.F. Chen, TN: SM6:June 72:649:8933

Pore Fluid and Mechanical Behavior of Rock, F. H. Cornet, RM13:72:825

Pore Pressures Under a Bund of Soft Fissured Clay, Za-Chieh Moh, Edward W. Brand and John D. Nelson, PES:72:I-243

The Significance of Cap and Base Restraint, James M. Duncan and Peter Dunlop, SM1:Jan 68:271:5768

Structure of Deep Sea Clays, Vito A. Nacci and Milton T. Huston, CEO-II:70:599

Pores

Friction Factor and Reynolds Number in Porous Media Flow, Anat Arbhabhirama and Antonio A. Dinoy, HY6:June 73:901:9784

Hydrology of Porous Pavement Parking Lots, Thomas J. Jackson and Robert M. Ragan, HY12:Dec 74:1739:11010

Pore Size

Mean Pore Sizes from Flow Measurements, Richard P. Long and Thomas F. Zimmie, TN: SM7:July 73:583:9865

Pore Sizes and Strength of Compacted Clay, Syed Ahmed, Charles William Lovell, Jr. and Sidney Diamond, GT4:Apr 74:407:10500

Pore Water Pressure

Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71:1183:8372

Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207

Consolidation of Clay Layer in Two Dimensions, Sivajogi D. Koppula and Norbert R. Morgenstern, SM1:Jan 72:79:8674
Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295
Earth Responses in Soft Ground Tunnelling, Peter M. Rebull, PES:72:I-1517
Effective Stress Principle in Saturated Clay, H. E. Evans and Roland W. Lewis, SM2:Mar 70:671:7183
Engineering Properties of a Pennsylvania Shale, Gholamreza Mesri and Rocco Gibala, RM13:72:57
Field Studies of Response of Peat to Plate Loading, J. B. Forrest and I. C. MacFarlane, SM4:July 69:949:6652
The Gloucester Test Fill, Michael Bozozuk and Gerald A. Leonards, PES:72:I-299
Mass-Wasting Processes in Watershed Management, Raymond M. Rice and J. S. Krammes, IAWM:72:231
Physics of Desaturation in Porous Materials, Nikolas F. White, Harold R. Duke, Daniel K. Sunada and Arthur T. Corey, IR2:June 70:165:7376
Pore Fluid and Mechanical Behavior of Rock, F. H. Cornet, RM13:72:825
Pore Pressure in Saturated Stiff Soils, Anwar E.Z. Wissa, SM4:July 69:1063:6670
Pore Pressures, Consolidation, and Electrokinetics, Melvin I. Esrig, PISST:71:263
Precompression Analysis for Highway Embankments, Raymond J. Krizek and Peter K. Krugman, GT74:June 74:111
Secondary Consolidation and Strength of a Clay, Chih-Kang P. Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510
Seepage Effect on Channel Bank Stability, Philip H. Burgi and Susumu Karaki, IR1:Mar 71:59:7968
Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., GT3:Mar 74:247:10410
Stability Analysis of Embankments, John Lowe, III, SM4:July 67:33:5305
Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243
Theory of Consolidation for Clays, Gholamreza Mesri and Anoushiravan Rokhsar, GT8:Aug 74:889:10740
Triaxial and Plane Strain Behavior of Natural Clay, Yoginder P. Vaid and Richard G. Campanella, GT3:Mar 74:207:10421
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald L. York, CE:Aug 73:56
Wave-Induced Pressures in Beds of Sand, John F. A. Sleath, HY2:Feb 70:367:7057

Porosimeters
Pore Size Distribution Studies, Asuri Sridharan, Adolph G. Altschaeffl and Sidney Diamond, SM5:May 71:771:8151

Porosity
Fracture Evaluation by the Borehole Logging Method, John I. Myung and R. W. Baltosser, RM13:72:31
Hydraulic Resistance of Artificial Concrete Blocks, Nobuo Shuto and Hiroshi Hashimoto, 12CEC:71:1587

Porous Materials
Behavior Of Porous Bed Near Flow Singularity, C. Samuel Martin, SM2:Feb 71:393:7935
Clogging of Porous Column of Spheres by Sediment, Ramaswamy Sakthivadivel and Hans Albert Einstein, HY2:Feb 70:461:7075
Free-Surface Flow Through Heterogeneous Porous Media, Roland W. Jeppson, HY1:Jan 69:363:6364
Physics of Desaturation in Porous Materials, Nikolas F. White, Harold R. Duke, Daniel K. Sunada and Arthur T. Corey, IR2:June 70:165:7376
Radial Flow Between Porous and Solid Discs, Chyan S. Chiou and Harold L. Weissberg, TN: EM6:Dec 71:1759:8559
Reflection and Transmission for a Porous Structure, Hideo Kondo and Satoshi Toma, CE13:72:III-1847
Scale Effects of Wave Transmission Through Permeable Structures, Richard C. Delmonte, CE13:72:III-1867
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144
Wave-Induced Pressures in Beds of Sand, John F. A. Sleath, HY2:Feb 70:367:7057

Porous Media
Consolidation of Porous Media with Non-Darcy Flow, James D. Schmidt and Russell A. Westmann, EM6:Dec 73:1201:10211
Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218
Drainage in Soils with Initial Gradient, Arun J. Valsangkar and Kanakatti Subramanya, IR2:June 72:309:8995
Exact Flow Rates from Dupuit's Approximation, Bruce W. Hunt, HY3:Mar 70:633:7140
Friction Factor and Reynolds Number in Porous Media Flow, Anat Arbhabhirama and Antonio A. Dinoy, HY6:June 73:901:9784
Nonlinear Flow in Porous Media, Nazeer Ahmed and Daniel K. Sunada, HY6:Nov 69:1847:6883
Nonlinear Flow in Porous Media by Finite Elements, Raymond Edward Volker, HY6:Nov 69:2093:6927
Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546
Salt Water Interface During Ground-Water Pumping, Norbert L. Ackermann and Y. Y. Chang, HY2:Feb 71:223:7920
Wave Transmission through Porous Structures, Ole Secher Madsen, WW3:Aug 74:169:10714

Porous Media Flow
Computer Analysis of Free Surface Well Flow, Willem F. Brutsaert, E. Allen Breitenbach and Daniel K. Sunada, IR3:Sept 71:405:8376
Consolidation of Porous Media with Non-Darcy Flow, James D. Schmidt and Russell A. Westmann, EM6:Dec 73:1201:10211
Friction Factor and Reynolds Number in Porous Media Flow, Anat Arbhabhirama and Antonio A. Dinoy, HY6:June 73:901:9784
Numerical Solution of Multiphase Well Flow, Willem F. Brutsaert, HY11:Nov 73:1981:10162
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201
Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, Jamshid Ghaboussi and Edward L. Wilson, EM4:Aug 72:947:9152

Portland Pozzolan Cements
Bureau of Reclamation Experiences With Concrete Admixtures, Elmo C. Higginson, RCCD:70:103

Ports
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Evolution of Tidewater Port, Chester A. Peyronnin, Jr., WW2:May 70:387:7287
Infrastructure Planning: Force Behind Port of Rotterdam's Growth, Sverre E. Bergh, CE:May 71:79
Systems Approach to Petroleum Site Selection, William S. Gaither and John Patrick Sides, WW3:Aug 69:395:6750
Waves in a Harbor with Protruding Breakwaters, Chiang C. Mei and Ricardo V. Petroni, WW2:May 73:209:9700

Portugal
Experimental Study of the Hydraulic Behaviour of Inclined Groyne Systems, Julio Patriarca Barcelo, 12CEC:71:1021

Position (Location)
Geodetic Computations by Electronic Computer, Gerald F. Clohecy, SU1:May 71:97:8105
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63:10030

Three-Dimensional Resection--A Vector Approach, William E. Ball, Jr., SU1:Sept 73:87:10007

Post Tensioning

"PCI Post-Tensioning Manual" ed. Clifford Freyermuth (Book Review), H. Carl Walker, CE: Feb 74:28

Prestressed Pipe for Power Site in New Zealand, Robert H. Weight, A. Max Jensen and A. M. McConnell, PO2:Nov 68:143:6229

Rock Island to Use Bulb Turbines—A First in U.S., Wayne A. Stewart and Warner W. Wayne, Jr., PO2:Dec 74:175:11005

Potable Water

Disposal Well Problems in Chicago and Bakersfield Areas, Ralph G. Berk, SA5:Oct 71:675:8405

Emergency Water Disinfection Practice, Surinder K. Kapoor and John T. O'Connor, NSCD:71:179

Engineering Evaluation of Virus Hazard in Water, by the Committee on Environmental Quality Management of the Sanitary Engineering Division, Bernard B. Berger, Chmn., SA1:Feb 70:111:7112

Federal Drinking Water Standards - Past, Present, and Future, James H. McDermott, EE4:Aug 73: 469:9924

Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327

Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103

Potential Flow

Flow in Open Channels with Smooth Curved Boundaries, Mohammad S. Moayeri, HY12:Dec 73: 2217:10194

Free Streamline Analysis of Two-Dimensional Jet, Anat Arbhabhirama, HY4:July 69:1139:6658

Pattern Of Potential Flow in a Free Overfall, Theodor S. Strelkoff and Mohammad S. Moayeri, HY4:Apr 70:879:7207

Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680

Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441: 9618

Potentiometers

Electrode Potential Control Of Ocean Outfalls, Werner N. Grune, Philip Quinn and Susan DiPrima, CEO-II:70:1187

Power

Additions To Chief Joseph Dam Power Project, A. Lee Warbington, PO2:Mar 71:493:7970

Advantages Of Inclined-Axis Hydroelectric Units, V. Shannon and Charles H. Fogg, PO2:Mar 71:395: 7948

Aesthetic Factors in Planning and Design of Libby Dam, Sydney Steinborn, PO1:Jan 70:39:6999

Angat Project - The Leak in Tunnel Two, Wallace A. Waldorf, PO4:Dec 71:799:8571

An Approach to Analysis of Arch Dams in Wide Valleys, Janusz R. Rydzewski and Richard W. Humphries, PO1:May 73:165:9710

Approximate Fundamental Frequencies for Chimneys, Kuang-Han Chu and Junesun Park, TN: PO2:Nov 73:441:10115

Aquatic Ecosystems and Thermal Power Plants, Loren D. Jensen and Derek K. Brady, PO1:Jan 71: 209:7802

Aquatic Studies at Ludington Pumped Storage Project, John Z. Reynolds, Peter I. Tack and Charles R. Liston, EPCE:Aug 74:227

Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381

Arch Dam Design: State-of-the-Art, Merlin D. Copen and Loyd R. Scrivner, PO1:Jan 70:93:7021

Arch Dam Layout Facilitated by Use of Computer, Alfred L. Parme, PO2:Oct 67:69:5523

Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings, Jay L. Smith and Dennis K. Ostrom, PO1:July 74:1:10652

Barge-Coal Handling at A.S. King Generating Plant, Arthur V. Dienhart and Norris R. Fitch, PO3:June 70:299:7322

Basic Structural Design of Concrete Chimneys, Wadi S. Rumman, PO3:June 70:309:7334

Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709

Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395: 10146

Brittle Failure of Steel Stack, Max Zar, PO1:July 74: 33:10650

Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826

Challenge Of Underground Transmission and Distribution, David W. Gilman and Edward J. Steeve, PO1:Jan 71:151:7827

Chesapeake Bay Model Study for Calvert Cliffs, Lawrence C. Neale, PO4:Dec 71:827:8602

Churchill Falls Power Facilities, D. Wermenlinger, J. G.S. Thompson and J. M. Gardiner, PO2:Mar 71: 515:7974

The Civil Engineer's Role in the Power Industry, Charles F. Beck, EPCE:Aug 74:1

Computer Model for Thermal Plume, Robert E. Barry and David P. Hoffman, PO1:June 72:117: 8985

Conception Investigation and Design of Arrow Dam, Keith A. Henry and Nigel P. Grant, PO1:May 68: 41:5940

Concrete Chimney Design, Construction and Operation, Philip G. Sikes, PO3:June 70:449:7368

Concrete Volume Change for Dworshak Dam, Donald L. Houghton, PO2:Oct 69:153:6825

Condenser Cooling and Pumped-Storage Reservoirs, Eli Sefchovich, PO3:July 71:611:8247

Construction and Operation of Wells Dam, Joseph Anderson and Lee A. Wyngaard, PO2:Feb 71:335: 7975

Control of Ice Jams at Barrett Chute G.S., David R. Townsend, PO3:July 71:597:8244

Control of Thermal Effects at Beaver Valley Station, Robert J. McAllister, Lawrence C. Neale and Bruno Brodfeld, PO3:June 70:289:7319

Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250

Cooling Water Structures for FitzPatrick Nuclear Plant, Ralph W. Gunwaldsen, Bruno Brodfeld and George E. Hecker, PO4:Dec 71:767:8572

Cooling Water Studies at Electric Power Station, R. Fred Gray and J. Ben Stephenson, PO2:Oct 69:293: 6853

Cost of Thermal Effluent Standards for Power Plants, Leonard Ortolano and Frank A. Smith, PO1:July 74:15:10649

Cowlitz Salmon Hatchery, Quentin A. Edson and Ray J. Banys, PO1:Jan 71:61:7801

The Critical U.S. Energy Situation, John J. McKetta, PP2:Apr 73:171:9685

Dam Safety-An Objective of Federal Licensing, F. Stewart Brown, PO1:Mar 67:67:5155

Design and Construction of Mossyrock Penstocks, Edgar T. Moore, PO1:Jan 71:49:7799

Design Criteria for Turbine-Generator Pedestals, Asadour H. Hadjian, PO1:Jan 70:1:6991

Designing Energy-Conserving Buildings, Eugene E. Dallaire, CE:Apr 74:54

Design of Boundary Arch Dam, Jaroslav Pospisil and Michael D. Hayes, PO1:Jan 70:73:7012

Design of Browns Ferry Chimney, John W. Smith and Asgeir Jonsson, PO3:June 70:437:7359

Design of Mossyrock Arch Dam, Roman P. Wengler and William Y. J. Shieh, PO1:Jan 71:25:7805

Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256

Determination of In Situ Stresses in Concrete Dams, Merlin D. Copen and George Brown Wallace, PO2: Mar 71:455:7964

Development of Wells Hydroelectric Project, James G. Patrick, PO2:Mar 71:267:7967

Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1: May 73:217:9741

The Dissipation of Excess Heat from Water Systems, Harvey E. Jobson, PO1:May 73:089:9702
Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, Donald C. Raney and Terry G. Arnold, PO1:May 73:139:9707
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134
Earthquake Forces on Equipment in Nuclear Power Plants, Asadour H. Hadjian, PO3:July 71:649:8240
Earthquake Research Needs For Nuclear Power Plants, George W. Housner, PO1:Jan 71:77:7818
Edward Hyatt (Orville) Underground Power Plant, Alfred R. Golze, PO2:Mar 71:419:7950
Effects of Reservoir Impoundment on Water Quality, Frank H. Posey, Jr. and Joseph W. DeWitt, PO1: Jan 70:173:7041
EHV-DC System Ties Los Angeles to Northwest, William M. Mahoney, PO1:Jan 71:181:7851
Electrical Systems in Tall Buildings, State-of-Art Report 5, Jo Chen Strunk, TB:73:Ia-2-349
Electric Transmission Tower Design, Matthew Marjerrison, PO1:May 68:1:5932
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125: 9697
Fly Ash as Structural Fill, Anthony M. DiGioia, Jr. and William L. Nuzzo, PO1:June 72:77:8980
Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127
Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261
Hutchinson Island Nuclear Containment Structure, Ronald G. Moreland and Richard L. Bentley, PO1: May 73:041:9714
Hydroelectric Power Plant Trashrack Design, Lloyd E. Sell, PO1:Jan 71:115:7819
Hyperbolic Cooling Towers, Development and Practice, Paul Rogers and Eli W. Cohen, PO1:Jan 70:117:7030
Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708
Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72: 273:9242
Investigation of Deteriorated Concrete Arch Dam, David Pirtz, Arthur G. Strassburger and Richard C. Mielenz, PO1:Jan 70:23:6997
Lateral Spreading of Heated Discharge, John C. Sonnichsen, Jr., PO3:July 71:623:8245
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696
Model and Prototype Tests of Buoyant Spillway Gates, Arthur G Strassburger and James F Sias, PO2:Oct 69:335:6863
Modeling Spread of Heated Water over Lake, Heinz Stefan, PO3:June 70:469:7375
Modernization of Dams on Salt River, J. George Thon, John W. O'Hara and Clarence H. Whalin, PO1:Jan 70:157:7039
Mossyrock Arch Spillway, David S. Louie, PO1:Jan 71:39:7792
Mossyrock Project River-Diversion and Care of Fish, Earl J. Beck, PO1:Jan 71:1:7800
New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93: 8981
New Design Criteria for USBR Penstocks, Harold G. Arthur and John J. Walker, PO1:Jan 70:129:7034
Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983
Nuclear Containment Mat Design Concepts, King-Yuen Chu and Alan A. Broussard, PO1:July 74:85: 10654
Nuclear Power Plant Tornado Design Considerations, James A. Dunlap and Karl Wiedner, PO2:Mar 71: 407:7949
Optimal Development of Multipurpose Hydro Projects, Phillip R. Hoffman, PO1:July 74:43:10655
Optimization of Circulating Water System, R. S. Gupta and Bruce R. Webber, PO1:May 73:235: 9756
Oroville Dam Diversion Tunnels, Cortland C. Lanning, PO2:Oct 67:51:5506
Penstocks For Six Pumped Storage Projects, J. Edgar Revelle and Robert W. Mikitka, PO2:Mar 71:435: 7947
Portage Mountain Intake Structure and Facilities, H. Edward Howe, PO3:June 70:331:7342
Post-Tensioned Concrete Nuclear Structures, Glen A. Chauvin, Robert J. Small and Adolf Walser, PO3: June 70:400:7355
Power and Energy Study of Hydroelectric Plants, Peri Z. Valvis and Miltos Th. Mathioudis, PO2:Mar 71:567:8003
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
Power Plant Cycles for Dry Cooling Towers, Paul Leung and Raymond E. Moore, PO4:Dec 71:729: 8565
Prestressed Concrete Transmission Line Structures, Fred Ruckhaus, PO1:May 68:25:5934
Prestressing For H.B. Robinson Nuclear Plant, Allan H. Wern, Morris Schupack and W. Larson, PO2: Mar 71:539:7992
Prestress System for Nuclear Concrete Containment Domes, King-Yuen Chu, PO1:July 74:111:10687
Properties and Steel Tunnel Liners, George H. Kruse, PO3:June 70:4115:7357
Proposed Third Power Plant at Grand Coulee Dam, Harold G. Arthur, PO1:Mar 67:15:5148
Pumped Storage: State-of-the-Art, Richard S. Woodruff, Chmn., PO3:July 71:675:8262
PWR Containment Structures Design Experience, P. Blair Haga and John D. Stevenson, PO1:Jan 70: 145:7037
Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1: 8959
Reevaluation and Reconstruction of California Dams, Clifford J. Cortright, PO1:Jan 70:55:7008
Rehabilitation of Wilson Dam Generating Units, William F. Willis and J. E. Kirkland, PO2:Oct 69: 321:6861
Reinforcing Steel for Penstock Wye Branch, Kenneth E. Sorensen, PO2:Oct 69:217:6830
Research Needs, Leonard B. Dworsky, EPCE:Aug 74:467
Research Needs in the Civil Engineering Aspects of Power, E. Roy Tinney, Chmn., PO2:Feb 70:187: 7073
River-Basin Planning for Private Development, Leonard A. Lovell, Clarence N. Freeman and Alvin S. Goodman, PO1:May 68:67:5946
Rock Island to Use Bulb Turbines—A First in U.S., Wayne A. Stewart and Warner W. Wayne, Jr., PO2:Dec 74:175:11005
Rock Mechanics Studies for Mossyrocky Arch Dam, David E. Kleiner and Richard C. Acker, PO1:Jan 71:11:7795
Rock Stabilization at Morrow Point Power Plant, Gilbert L. Brown, Ernest D. Morgan and Jerry S. Dodd, SM1:Jan 71:119:7820
Safety Inspection Of Hydro Projects-FPC Order 315, Arthur Martin, Jr., PO2:Mar 71:449:7958
Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254
Seismic Analysis of Nuclear Power Plant Structures, Richard N. Bergstrom, Shih-Lung Chu and Robert J. Small, PO2:Mar 71:367:7977
Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305: 10145
Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142
Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73: 281:10164

Select Reservoir Withdrawal by Multilevel Intakes, Walter B. Benton, William J. Wall and Shelton R. McKeever, PO1:Jan 70:109:7029
Shape Factors for Cooling Lakes, John Eric Edinger, PO4:Dec 71:861:8616
Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140
Siting of Browns Ferry Nuclear Plant, Jack E. Gilleland, PO2:Oct 69:185:6827
Sizing of Pumped Storage Conduits, Raymond K. Sullivan, Jr., PO3:July 71:667:8252
Soils Engineering For Wells Project, Harris H. Burke, PO2:Mar 71:317:7976
Some Design Aspects of a Divided Gate Tower, W. L. Grigg, Robert E. Johnson and Rolf Kellerhals, PO2:Oct 67:1:5482
Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405:10169
Steel Penstock Design For Tims Ford Dam, George E. Day and Horace S. Beckner, PO1:Jan 71:203:7803
Structural Design of Angeles Tunnel Surge Chamber, Rossiter L. White, PO1:July 74:71:10644
Structural Design of Wells Hydrocombine, C. C. Wang, PO2:Mar 71:281:7980
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
Testing Of Large Curved Prestressing Tendons, Gunnar A. Harstead, Richard E. Kummerle, John C. Archer and Mark M. Porat, PO2:Mar 71:475:7966
Test Method for Seismic Qualification of Equipment, Michael de Estrada, PO1:July 74:97:10656
Thermal Hydraulic Study: Arkansas Cooling Reservoir, Herbert S. Riesbol, James B. Anderson, Fred H. Wend and Harlan B. Holmes, PO1:Jan 71:93:7811
Tower Designs for AEP 765-KU Project, Richard A. Kravitz and James A. Samuelson, PO2:Oct 69:305:6855
Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, PO2:Nov 73:349:10150
Transmission Towers Under Torsional Loads, Albert W.G. Hanna and Richard G. Redwood, PO1:May 73:105:9701
Transporting Equipment for Grand Coulee Third Plant, Harold G. Arthur, PO2:Nov 68:125:6226
Trial Load Analyses Confirm Arch Dam Model Tests, Archie A. Stone and Gurmukh S. Sarkaria, PO2:Oct 67:37:5503
Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
Velocity and Temperature in Buoyant Jet, Richard B. Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
Waste Heat Disposal from Power Generating Stations, F. Stewart Brown, PO3:June 70:277:7317
Water Consumption Study for Navajo Plant, Paul Leung and Raymond E. Moore, PO4:Dec 71:749:8564
Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176
Wells Hydroelectric Project Fish Facilities, Robert T. Loder and Michael W. Erho, PO2:Mar 71:301:7982

Power Equipment

Control of Thermal Effects at Beaver Valley Station, Robert J. McAllister, Lawrence C. Neale and Bruno Brodfeld, PO3:June 70:289:7319

Power Lines

Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
Unbalanced Tensions in Transmission Lines, David B. Campbell, ST10:Oct 70:2189:7622
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723

Power Loads

Random Vibration of Yielding Oscillator, Loren D. Lutes and Hirokazu Takemiya, EM2:Apr 74:343:10482
Systems Approach to Power Planning, J. George Thon, HY4:Apr 73:589:9661

Powerplants

Advantages Of Inclined-Axis Hydroelectric Units, V. Shannon and Charles H. Fogg, PO2:Mar 71:395:7948
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings, Jay L. Smith and Dennis K. Ostrom, PO1:July 74:1:10652
Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4:Apr 72:311:8817
Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
Civil Engineering Features of Geothermal Power Plant, Simon Peters, PO2:Dec 74:157:11000
The Civil Engineer's Role in the Power Industry, Charles F. Beck, EPCE:Aug 74:1
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
Condenser Cooling and Pumped-Storage Reservoirs, Eli Sefchovich, PO3:July 71:611:8247
Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250
Cooling Water Density Wedges in Streams, Edward M. Polk, Jr., Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
Cooling Water Sources For Power Generation, Louis G. Hauser, PO1:Jan 71:123:7804
Design and Construction Features — Greenwood Unit One, Satyen M. Guha-Biswas, EPCE:Aug 74:279
Design of Carters Pumped Storage Project, Walter W. Burdin, PO3:June 70:383:7353
Dry-Type Hyberbolic Cooling Tower, Paul Rogers and Laszlo Heller, CE:Oct 72:56
Edward Hyatt (Orville) Underground Power Plant, Alfred R. Golze, PO2:Mar 71:419:7950
Fourth Dimension for Urban Environment, Kenneth E. Sorensen, UP1:Apr 71:91:8064
Heated Discharge from Flume into Tank, Heinz Stefan and Frank R. Schiebe, SA6:Dec 70:1415:7762
Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment, Thomas A.L. Paton, PWS:Nov 72:81
Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397
Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
Model of Natural Draft Cooling Tower Performance, Lawrence D. Winiarski and Bruce A. Tichenor, SA4:Aug 70:927:7461
New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93:8981
New Approach to Site Selection Studies, W. Ray Seiple, PO1:July 74:63:10643
NO_x Emmissions from Stationary Combustion Sources, by The Committee on Atmospheric Pollution of the Environmental Engineering Division, James J. Stukel, Chmn., EE3:June 74:641:10581
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:1:9706
Post-Tensioned Concrete Nuclear Structures, Glen A. Chauvin, Robert J. Small and Adolf Walser, PO3:June 70:400:7355

Power Optimization for Prescribed Thermal Pollution, Amir N. Nahavandi and Michael Pappas, PO3:July 71:631:8254

Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231

Power Plant Cycles for Dry Cooling Towers, Paul Leung and Raymond E. Moore, PO4:Dec 71:729:8565

Prediction of Power Plant Emission Impacts, Michael D. Williams and Eric G. Walther, EPCE:Aug 74:601

Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297

Recirculation in Shallow Bays and Rivers, R. K. Price, Robert A. Dalrymple and Robert G. Dean, 12CEC:71:1813

Rock Island to Use Bulb Turbines—A First in U.S., Wayne A. Stewart and Warner W. Wayne, Jr., PO2:Dec 74:175:11005

Rock Stabilization at Morrow Point Power Plant, Gilbert L. Brown, Ernest D. Morgan and Jerry S. Dodd, SM1:Jan 71:119:7820

Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305:10145

Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73:281:10164

Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695

St. Louis Powerplant Burns City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30

Sulfur Dioxide Dilemma: Is the Scrubber the Answer?, Virginia Fairweather, CE:June 74:64

Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, Kay H. Jones, Chmn., EE4:Aug 73:461:9936

Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Tailwater Encroachment, David N. Raffel, PO2:Oct 69:167:6798

Thermal Discharge: A Model-Prototype Comparison, Peter D. Hindley, Russell M. Miner and Ramon F. Cayot, PO4:Dec 71:783:8580

Tidal Energy from the Bay of Fundy, Thomas L. Shaw and J. van den Heuvel, CE:Dec 72:40

Tolerable Settlements of Steam Turbine-Generators, J. Ronald Sallen and Ralph B. Peck, PO2:Oct 69:227:6841

TVA's Air Quality Management Program, Fred W. Thomas, PO1:Mar 69:131:6483

Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999

Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72:333:9259

Water Consumption Study for Navajo Plant, Paul Leung and Raymond E. Moore, PO4:Dec 71:749:8564

Power Reactors (Nuclear)

Environmental Litigation: Lessons From the Courts, William K. Johnson, CE:Jan 72:55

Power Spectra

An Approach to Time-Varying Spectral Analysis, Shih-Chi Liu, EM1:Feb 72:243:8733

Dynamic Response of Airplanes in Ground Operation, Te-ming Hsueh and Joseph Penzien, TE3:Aug 74:743:10755

Interaction of Aircraft and Ground Structure, Nai C. Yang, ST6:June 70:1119:7360

Power Supplies

Logical Approaches to Power Supply and Environment, Riley D. Woodson, PO2:Oct 72:181:9257

Reliability of Electric Power Supplies, Thorton A. Phillips, EPCE:Aug 74:7

Power System Operations

Systems Approach to Power Planning, J. George Thon, HY4:Apr 73:589:9661

Power Transmission Lines

Challenge Of Underground Transmission and Distribution, David W. Gilman and Edward J. Steeve, PO1:Jan 71:151:7827

EHV-DC System Ties Los Angeles to Northwest, William M. Mahoney, PO1:Jan 71:181:7851

Power Transmission Towers

EHV-DC System Ties Los Angeles to Northwest, William M. Mahoney, PO1:Jan 71:181:7851

Ultimate Capacity of Single Bolted Angle Connections, John B. Kennedy and George R. Sinclair, ST8:Aug 69:1645:6721

Pozzolans

Bureau of Reclamation Experiences With Concrete Admixtures, Elmo C. Higginson, RCCD:70:103

Precast Concrete

Auxiliary Reinforcement in Concrete Connections, Robert F. Mast, ST6:June 68:1485:6002

Concrete Placement, Split Level-No Vertical Joints, Otto R. Lum, RCCD:70:213

Precast Concrete for Cladding on Mass Concrete, Arthur R. Anderson, RCCD:70:309

Prestressed Precast Concrete Railroad Bridges, Robert M. Barton, ST12:Dec 68:2885:6302

Precipitation (Atmospheric)

Effectiveness of Precipitation in a Mountain Meadow, E. Gordon Kruse and Howard R. Haise, IR73:Aug 73:627

Flood Inflation, Donald L. Milliken, IMROD:Sept 73:399

National Weather Service River Forecasting System, John C. Monro and Eric A. Anderson, HY5:May 74:621:10549

Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787

Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., IR3:Sept 73:215:9983

Priority Problems for Modifying Cumulus Precipitation, Lewis O. Grant, IR73:Aug 73:131

Some Procedures for Determining Extreme Precipitation Criteria, John T. Riedel, IMROD:Sept 73:284

Statistical Safety Factor Concept for Determining the Probable Maximum Flood, Boris S. Browzin, SDNPF:Dec 73:557

Status of Weather Modification in Watershed Management, Merlin C. Williams, IR4:Dec 71:585:8608

User's View of Weather Modification, Donald Christy, IR73:Aug 73:165

Weather Modification for Use in the High Plains, Richard A. Schleusener and J. R. Miller, Jr., IR73:Aug 73:147

Precipitation (Chemistry)

Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196

Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946

Phosphate Removal: Summary of Papers, Milton Spiegel and Tom H. Forrest, SA5:Oct 69:803:6807

Removal of Lignin from Water by Precipitate Flotation, Mu-Hao Wang, Marvin L. Granstrom, Thomas E. Wilson and Lawrence K. Wang, EE3:June 74:629:10574

Virus Inactivation During Phosphate Precipitation, Dirk R. Brunner and Otis J. Sproul, SA2:Apr 70:365:7220

Precipitation (Meteorology)

Applications Programs of Hail Suppression, Thomas J. Henderson, OIDS:72:403

Augmenting Colorado River by Weather Modification, Patrick A. Hurley, IR4:Dec 68:363:6271

The Economic Evaluation of Irrigation in Humid Areas, Milton L. David and Gary M. Mennem, OIDS:72:443

The Evaluation of Water Evaluation, George H. Hargreaves, IRS:Sept 72:273

A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171:9034

Modification of Convective Clouds in Northern Plains, Martin R. Schock and Arnett S. Dennis, OIDS:72:373

National Hail Research Experiment, William C. Swinbank, OIDS:72:395

Reservoir Operation Using Snow Survey Data, Phillip E. Farnes, HYB:Aug 73:249

Runoff Grouping for Detection of Change in Runoff, Hiroshi Nakamichi and Hubert J. Morel-Seytoux, IR2:June 71:275:8201

Synthesizing Daily Discharge From Rainfall Records, Donald O. Moore, HY5:Sept 68:1283:6119

Precipitation Gages

Colorado Pilot Project: Design Hydrometeorology, Patrick A. Hurley, HY5:May 72:811:8901

National Hail Research Experiment, William C. Swinbank, OIDS:72:395

Snow Fence Shielding of Precipitation Gages, Paul A. Rechard and Lee W. Larson, HY9:Sept 71:1427:8386

Precision

Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034

Rigorous Formulas for Effects of Weight Changes, Mohamed F. Madkour, SU2:Nov 71:173:8514

Rounds Versus Positions, Mohamed F. Madkour, SU1:Oct 69:151:6862

Preconsolidation

Foundation Precompression With Vertical Sand Drains, Stanley J. Johnson, SM1:Jan 70:145:7019

Foundation Precompression with Vertical Sand Drains, Stanley J. Johnson, PISST:71:9

New Concepts in Consolidation and Settlement Analysis, John Lowe, III, GT6:June 74:571:10623

Precompression Analysis for Highway Embankments, Raymond J. Krizek and Peter K. Krugman, GT74:June 74:111

Precompression for Improving Foundation Soils, Stanley J. Johnson, SM1:Jan 70:111:7020

Precompression for Improving Foundation Soils, Stanley J. Johnson, PISST:71:53

Sand Drain Performance on a San Francisco Bay Mud Site, Edward Margason and Ignacio Arango, PES:72:I-181

Predation

Destruction of Bacteria and Viruses in Seawater, Ralph Mitchell, SA4:Aug 71:425:8299

Predictions

Difficulties In Prediction Of Horizontal Deformations Of Foundations, Harry G. Poulos, TN: SM8:Aug 72:843:9085

Effect of Period of Record on Flood Prediction, Peter Victorov, HY11:Nov 71:1853:8525

Estimating Travel Times on Highway Networks, Joseph M. Sussman, Ho-Kwan Wong and Roger Miller, TE1:Feb 74:13:10335

Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395

Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219

Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73:519:10188

Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73:383

Prediction Curves for Waves near the Source of an Impulse, Robert L. Miller, 12CEC:71:609

Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5:May 73:729:9730

Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60

Refraction Computations for Practical Applications, Ove Skovgaard and Jens Aage Bertelsen, WAVES:Sept 74:761

Statistical Prediction of Hurricane Storm Surge, Cheng Y. Yang, A. M. Parisi and William S. Gaither, 12CEC:71:2011

Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962

Wave Prediction, Tim P. Barnett, PITO:74:11

Prefabrication

Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, A. Kondratiev, TB:73:II-14-157

Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, Mogens Lorentsen, TB:73:III-23-585

Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35

Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183

Design of Seismic Joint for San Francisco Bay Tunnel, Walter S. Douglas and Robert Warshaw, ST4:Apr 71:1129:8040

Elastic Analysis and Design, Summary Report, Leo Finzi, TB:73:II-14-247

Federal Breakthrough Program Spurs Innovation in U.S. Housing Technology, Kneeland A. Godfrey, Jr., CE:Sept 70:73

Masonry Building Systems, State-of-Art Report 9, Alan H. Yorkdale, TB:73:Ia-3-567

Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477

Mobile Homes and New Communities, Herbert Behrend, UP2:Nov 74:181:10915

Multistory Prefabricated Columns, German R. Gurfinkel, CO2:Oct 70:137:7587

Package Buildings in Steel, Concrete, CE:Aug 74:76

Planning Construction of Repetitive Building Units, Robert I. Carr and Walter L. Meyer, CO3:Sept 74:403:10812

Prefabricated Highways, William Zuk, TE2:May 72:387:8895

A Profile of the Future Construction System, Joseph C. Kellogg, CO1:Mar 71:147:7938

Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73:Ib-9-889

Rehabilitation of Irrigation System, Ray S. Bennett and Charles F. Lurvey, IRS:Sept 72:151

Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1

Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49

Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Preheating

Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48

Preloading

Session II: Densification after Placement (Preloading), Donald L. York, PISST:71:5

Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald L. York, CE:Aug 73:56

Preplaced Aggregate Concrete

Preplaced Aggregate Concrete In Dam Construction, John C. King, RCCD:70:203

Present Worth

Modernization of Dams on Salt River, J. George Thon, John W. O'Hara and Clarence H. Whalin, PO1:Jan 70:157:7039

Pressure
Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814
Elastic Stability of Cylindrical Shells Under External Pressure, Cary K.K. Mak, Luis E. Amaya and Harry C. Saxe, CEO-II:70:535
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
Finite Element Methods for the Nonlinear and Time-Dependent Analysis of Geotechnical Problems, Chin-Yung Chang, Keshavan Nair and Ram D. Singh, GT74:June 74:269
Fluid Force on Accelerating Bodies, Wallis S. Hamilton, CE13:72:III-1767
The Influence of Breaker Type on Riprap Stability, John P. Ahrens, 12CEC:71:1557
Limit Pressures of Rigidly Clamped Circular Cylindrical Shells, Hwa-Shan Ho, EM4:Aug 74:757:10759
Plunging Wave Pressures on a Semi-cylindrical Tube, Yuan Jen and Pang-Mou Lin, 12CEC:71:1469
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516
Pressure Buckling of Ring Encased in Cavity, James A. Cheney, EM2:Apr 71:333:8024
Pressure of Waves Against Vertical Walls, M. E. Plakida, 12CEC:71:1451
Pressures of Standing Waves on Vertical Wall, Shoshichiro Nagai, WW1:Feb 69:53:6408
Pressure-Stabilized Drop-Shaped Tanks, John W. Leonard, TN: EM10:Oct 73:1110:10041
Pressure Upon Vertical Walls from Overtopping Waves, M. E. Plakida, CE13:72:III-1661
Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
Water Wave Pressure on Horizontal Plate, Hsiang Wang, HY10:Oct 70:1997:7629
Wave Force on a Platform with a Ribbed Bottom, Keith H. Denson and Melville S. Priest, CE13:72:III-1759
Wind Spectra and Dynamic Alongwind Response, Emil Simiu, ST9:Sept 74:1897:10815

Pressure Cells
Minor Principal Stress Measurements in Marine Clay with Hydraulic Fracture Tests, Michael Bozozuk, EFSE:Aug 74:333
Performance Instrumentation Installed in Oroville Dam, John E. O'Rourke, GT2:Feb 74:157:10363
Recent Developments in Earthwork Instrumentation, Raymond A. Forsyth and Kenneth Jackura, EFSE:Aug 74:254
The Self-Boring Placement Method of Soil Characteristics Measurements, Francois Baguelin, Jean-Francois Jezequel and Alain LeMehaute, EFSE:Aug 74:312

Pressure Distribution
Contact Pressure of a Rigid Circular Foundation, Michael M.K. Ho and R. Lopes, SM3:May 69:791:6554
Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, SM12:Dec 73:1153:10237
Fluctuating Pressures in Spillway Stilling Basins, C. Edward Bowers and Frank Y. Tsai, HY6:Nov 69:2071:6915
Numerical Model for Wave Pressure Distributions, J. Richard Weggel and W. Hall C. Maxwell, WW3:Aug 70:623:7467
Shear Strength Of Sand At Extremely Low Pressures, V. Miguel Ponce and James M. Bell, SM4:Apr 71:625:8062
Soil-Structure Interaction, Ralph B. Peck, PES:73:II-145
Soil-Structure Interaction -- Reporter's Remarks, Gerald W. Clough, PES:73:III-247
Structural Behavior of Concrete Arch Culvert, Raymond Eugene Davis, ST12:Dec 69:2665:6942

Pressure Drag
Effects Of Pile Roughness On Wave Forces On Piles, Robert M. Sorensen and William J. Burton, CE0-II:70:441

Pressure Gages
Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72:2329:9325
Large Area Wave-Load Meter, M. Geleedst and H. H. Hart, WW4:Nov 68:415:6209
Wave Propagation in Confined Clay, Delon Hampton, Peter J. Huck and Ernest T. Selig, SM4:July 70:1391:7434

Pressure Gradients
Pressure Fluctuations in Reattaching Flow, Rangaswami Narayanan and Alan J. Reynolds, HY6:Nov 68:1383:6212
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72:1365:9445

Pressure Head
Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919

Pressure Pipes
The Pressure Sewer: A New Alternative to Gravity Sewers, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, CE:May 74:50
Pressure Sewer Demonstration, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, EE1:Feb 74:25:10315
Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628

Pressure Regulators
Needle Valves as Pressure Regulators, J. Paul Tullis and Maurice L. Albertson, HY5:Sept 69:1633:6787

Pressure Suits
Engineering for the Lunar Environnent, R. B. Carpenter, Jr., J. M. Mansfield and D. J. Stone, ESE:Apr 70:163

Pressure Tunnels
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
Properties and Steel Tunnel Liners, George H. Kruse, PO3:June 70:4115:7357

Pressure Vessels
Concrete Deep Submergence Hollow Shell Structures, Jerry D. Stachiw, ST12:Dec 69:2931:6982
Elastic-Plastic Behavior of Intersecting Shells, Fernand Ellyin, EM1:Feb 69:69:6387
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125:9697
Motar Models of Prestressed Concrete Reactor Vessels, James M. Corum, Richard N. White and Jack E. Smith, ST2:Feb 69:229:6419

Pressurized Cabins
Material Safety Requirements of Hyperbaric Facilities, William J. Bobisch and Michael Yachnis, ST7:July 72:1465:9019

Pressurized Water Reactors
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, R. P. Kassawara and D. A. Peck, SDNPF:Dec 73:73
Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219
PWR Containment Structures Design Experience, P. Blair Haga and John D. Stevenson, PO1:Jan 70:145:7037

Time History Dynamic Analysis of Pressurizer Discharge Piping System, F. L. Cho and Y. A. Patel, SDNPF:Dec 73:343

Prestressed Concrete

Prestressed Concrete Transmission Line Structures, Fred Ruckhaus, PO1:May 68:25:5934
Prestressed Pipe for Power Site in New Zealand, Robert H. Weight, A. Max Jensen and A. M. McConnell, PO2:Nov 68:143:6229
Prestressed Precast Concrete Railroad Bridges, Robert M. Barton, ST12:Dec 68:2885:6302

Prestressing

Analytical and Model Studies of Prestressed Folded Plates, F. Wayne Klaiber, Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818
Behavior of Prestressed Composite Beams, Ronald S. Reg and Nat W. Krahl, ST6:Dec 67:87:5663
Bridge Features Precast Girders and Struts, Donald D. Casad and Halvard W. Birkeland, CE:July 70:42
Cable Net: Continuous System Analysis, Hugh Tottenham and Paul G. Williams, EM3:June 70:277:7347
Cylindrical Shell Roofs with Draped Prestressing, A. H. Bryant and J. C. Scrivener, ST4:Apr 71:611:6496
Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steels of Joint ASCE-AASHO Committee on Steel Flexural Members, C. E. Eckberg, Jr., ST9:Sept 68:2033:6112
Displacements and Losses in Multistage Prestressed Members, Amin Ghali, Romy G. Sisodiya and Gamil S. Tadros, ST11:Nov 74:2307:10968
Eigenvalue Uncertainty in Stressed Structures, Gary C. Hart, EM3:June 73:481:9780
Hyperbolic Functions for Prestress Loss and Camber, Raouf Sinno and Howard L. Furr, ST4:Apr 70:803:7227
Kazerne Viaduct Collapse, Konstant E. Bruinette, Alan J. Ockleston and Pieter C. Pretorius, ST2:Feb 74:335:10361
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201
Nonlinear Field Analysis of Structural Nets, R. Richard Avent, ST5:May 69:889:6556
Optimization of Redundant Prestressed Structuree, Leonard Spunt, ST12:Dec 70:2589:7755
Optimum Prestressed Tubular Columns, Ralph L. Barnett, ST2:Feb 70:291:7083
Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301:9594
Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615
Prestressed Cryogenic Pipelines, Marvin B. Gardner, Jr., TE2:May 74:489:10559
Prestressing For H.B. Robinson Nuclear Plant, Allan H. Wern, Morris Schupack and W. Larson, PO2:Mar 71:539:7992
Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, Michel Kavyrchine, TB:73:Ia-3-415
Snap-Buckling of Shallow Prestressed Arches, Rodney J. Clifton, EM6:Dec 70:1157:7749
Steel-Encased Expansive Cement Concrete Column, Vitelmo V. Bertero and Saad E. Moustafa, ST11:Nov 70:2267:7660
The Use of Prestressing in Dams in Tasmania, Henry H. Thomas, ECCD:72:287
World's Top Prestressed Structures, 1970-74, CE:Aug 74:68

Prestressing Steels

Design Concepts for Prestressed Steel Structures, Miloslav Tochacek, TB:73:II-19-883
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201

Pricing

Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
Pricing in Mass Transportation, Masatoshi A. Abe and Kumares C. Sinha, TE1:Feb 73:83:9551

Priorities

Evaluation of National Priorities: The Post Interstate Highway System, Paul L. Sitton, UTI:71:3
Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058
State Water Rights Laws, William R. Walker, IR4:Dec 73:449:10217

Probability

Assessing and Reporting Uncertainties, State-of-Art Report 1, Carl J. Turkstra and Haresh C. Shah, TB:73:Ib-10-919
Bidding Contingencies and Probabilities, Marvin Gates, CO2:Nov 71:277:8524
Bidding Models—The Final Resolution of a Controversy, John M. Dixie, CO3:Sept 74:265:10790
Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398
Determination of the Adequacy of Investigations for Evaluation of Dam Safety, William A. Wahler, IMROD:Sept 73:714
Probabilistic Aspects of Seiche Action on Ships, Francis Biesel, BMS:71:27
Probabilities of Rare Floods, Leo R. Beard, IMROD:Sept 73:314
Probability of Plastic Collapse Failure, James L. Jorgenson and John E. Goldberg, ST8:Aug 69:1743:6751
Reevaluating Spillway Adequacy of Existing Dams, Bob J. Buehler, IMROD:Sept 73:320
Safety Against Dynamic Forces, Masanobu Shinozuka, ST9:Sept 74:1821:10781

Probability Density Functions

Area and Volume Errors in Reservoir Projects, Antonio M. Aguilar, SU2:Nov 71:287:8538
Life Expectancy of Highway Bridges to Vehicle Loads, Chi C. Tung, EM6:Dec 69:1417:6976
Peak Flood Discharge Confidence Limits, Richard M. Shane and Walter R. Lynn, HY1:Jan 69:161:6329

Probability Distribution Functions

Probability Distributions of Breaking Wave Heights, John H. Nath and Fred L. Ramsey, WAVES:Sept 74:379
Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341:9931
Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165

Probability Theory

Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387:9128
Analysis of Dynamic Earthquake Response, State-of-Art Report 3, John A. Blume, TB:73:Ib-6-191
Analysis of Ephemeral Flow in Aridlands, Chester C. Kisiel, Lucien Duckstein and Martin M. Fogel, HY10:Oct 71:1699:8455
Analysis Of Probability And Risk Equations, Mohammad Akram Gill, TN: HY5:May 72:969:8864
Bidding Stratagies and Probabilities, Marvin Gates, CO1:Mar 67:75:5159
Buckling of Columns with Random Initial Displacements, Michael C. Bernard and John L. Bogdanoff, EM3:June 71:755:8194
Chance-Constrained Model of System of Reservoirs, Guy L. Curry, James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246

Channel Slope Effect on Peak Discharge of Natural Streams, Charles L. Armentrout and Robert B. Bissell, HY2:Feb 70:307:7052
A Class of Probability Models for Littoral Drift, William R. James, 12CEC:71:831
Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
Confidence Intervals for Ocean Wave Spectra, Leon Emry Borgman, CE13:72:I-237
Control of Quality-A System, Edward A. Abdun-Nur, CO2:Oct 70:119:7576
Decision Theory Applied to Settlement Predictions, Joseph I. Folayan, Kaare Hoeg and Jack R. Benjamin, SM4:July 70:1127:7390
Design Capacities to Accommodate Forecast Uncertainties, Paul M. Berthouex and Lawrence B. Polkowski, SA5:Oct 70:1183:7633
Deterministic and Probabilistic Design Wave Approach to Engineering Application, Ronald M. Noble and Richard B. Dornhelm, WAVES:Sept 74:856
Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138
Distributions of Extreme Winds Over Oceans, Herbert C.S. Thom, WW1:Feb 73:1:9556
Effects of Parameter Variations on Floor Response Spectra, L. K. Liu, C. L. Child and B. Nowotny, SDNPF:Dec 73:435
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
Exact and Invariant Second-Moment Code Format, Abraham M. Hasofer and Niels C. Lind, EM1:Feb 74:111:10376
Failure Model Calculations, Horea Sandi, TB:73:Ib-10-1038
Fatigue Damage of Asphalt under Compound-Loading, James McElvaney and Peter S. Pell, TE3:Aug 74:701:10730
Filtered Poisson Process for Random Vibration Problems, Ronald L. Racicot and Fred Moses, EM1:Feb 72:159:8725
Formulation of Structural Reliability, James T.P. Yao and Hsiang-Yueh Yeh, ST12:Dec 69:2611:6939
Free Vibration of Stochastic Beam-Column, Masaru Hoshiya and Haresh C. Shah, EM4:Aug 71:1239:8331
German Code Requirements, Gert Konig, TB:73:Ib-10-1027
Gravity Loads and Temperature Effects, Theme Report, Raymond C. Reese, TB:73:Ib-5-5
Irrigation Storage Probabilities of Small Reservoir, Larry A. Kramer, IR4:Dec 74:485:10987
Limit States Design, Theme Report, Franco Levi, TB:73:III-26-843
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
Loading Function, State-of-Art Report 2, John Strating, TB:73:II-19-849
Making Decisions in the Face of Uncertainty, Jack R. Benjamin, IMROD:Sept 73:356
Maximum Entropy Mixing in Estuaries, Dominic M. Di Toro, TE4:July 69:1247:6885
Maximum Potential Evapotranspiration Frequency - East Central U.S., J. L. McGuinness and Leslie H. Parmele, IR2:June 72:207:8943
Maximum Wave Height Probabilities for a Random Number of Random Intensity Storms, Leon Emry Borgman, 12CEC:71:53
Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043:9195
Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
Numerical Approximation For Reliability Analysis, Niels C. Lind, TN: ST3:Mar 72:797:8755
Objective Determination of Safety Factor in Reservoir Design, E. R. Close, Leo R. Beard and David R. Dawdy, HY5:May 70:1167:7297
On the Bound of First Excursion Probability, Masanobu Shinozuka and Jann-nan Yang, EM2:Apr 69:363:6499
OPBID: Competitive Bidding Strategy Model, Thomas L. Morin and Richard H. Clough, CO1:July 69:85:6690
Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638
Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72:1343:9119
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034
Probabilistic Analysis and Design of a Retained Wall, Kaare Hoeg and Ramesh P. Murarka, GT3:Mar 74:349:10436
Probabilistic Analysis of Fiber-Reinforced Concrete, Antoine E. Naaman, Fred Moavenzadeh and Frederick J. McGarry, EM2:Apr 74:397:10491
Probabilistic Analysis of Fire Safety, Sven Erik Magnusson, TB:73:Ib-10-1016
Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687
A Probabilistic Approach to Determine Wave Forces on Ocean Pile Structures, G. I. Schueller and Haresh C. Shah, CE13:72:III-1683
Probabilistic Approach to Estimating and Cost Control, Antonio J. Vergara and LeRoy T. Boyer, CO4:Dec 74:543:11021
A Probabilistic Approach Toward Integrated Fire Engineering Design, J. Witteveen, TB:73:Ib-8-728
Probabilistic Aspects of Seiche Action on Ships, Francis Biesel, BMS:71:27
Probabilistic Design for Random Fatigue Loads, Paul H. Wirsching and Edward B. Haugen, EM6:Dec 73:1165:10223
Probabilistic Methods, Jack R. Benjamin, TB:73:Ib-10-1013
Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448
Probabilistic Response Analyses to Earthquakes, R. Narayana Iyengar and Kashi T. Sundara Raja Iyengar, EM3:June 70:207:7321
Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363:9328
Probabilistic Structural Analysis and Design, Jack R. Benjamin, ST7:July 68:1665:6019
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andrew Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Probabilistic Variations in Ultimate First Stage BOD, Veerasamy Kothandaraman, SA1:Feb 70:27:7054
Probabilities For Highest Wave In Hurricane, Leon Emry Borgman, WW2:May 73:185:9705
Probabilities of Breaking Wave Characteristics, J. Ian Collins, 12CEC:71:399
Probabilities of Rare Floods, Leo R. Beard, IMROD:Sept 73:314
Probability Distribution of Maximum Sustained Load, David T. Bickley, TN: ST11:Nov 74:2361:10904
Probability Distributions For Hurricane Effects, Larry R. Russell, CEO-II:70:835
Probability Distributions for Hurricane Effects, Larry R. Russell, WW1:Feb 71:139:7886
Probability, Statistics and Decision-Making for Civil Engineers, by Jack R. Benjamin and C. Allin Cornell (Book Review), John A. Blume, CE:Jan 71:12
Probilistic Estimating, James E. Spooner, CO1:Mar 74:65:10406
Properties of Spectral Moments with Applications to Random, Erik H. Vanmarcke, EM2:Apr 72:425:8822
Proximal Decisions in Traffic Intersections, Lloyd Sako and Samuel Zundelevich, TE3:Aug 73:597:9915
Random Walk Model for First-Passage Probability, Richard H. Toland and Cheng Y. Yang, EM3:June 71:791:8200

Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, Kristoffer Apeland, TB:73:Ib-5-85
Reliability of Redundant Cable System, Masaru Hoshiya, TN: ST11:Nov 71:2773:8490
Reliability of Structural Systems, Fred Moses, ST9: Sept 74:1813:10780
Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6: Dec 71:1625:8584
A Remark on the Probabilistic Analysis of Structural Safety, Alessandro Baratta, TB:73:Ib-10-1039
Reward-Risk Ratio, Marvin Gates and Amerigo Scarpa, CO4:Dec 74:521:10984
Risk-Based Evaluation of Design Criteria, Bruce R. Ellingwood and Alfredo H.-S. Ang, ST9:Sept 74: 1771:10778
Risks in Hydrologic Design of Engineering Projects, Ben Chie Yen, HY4:Apr 70:959:7229
Rock Structure Design by Failure Probabilities, Robert G. Lundquist and Robert W. Heins, RM14: 73:329
Run-Up Distributions of Waves Breaking on Slopes, Jurjen A. Battjes, WW1:Feb 71:91:7923
Safety Analysis for Tall Buildings, State-of-Art Report 5, Fred Moses and Milik Tichy, TB:73:Ib-10-993
Safety Factors and Probability in Structural Design, Alfredo H.-S. Ang and Mohammad Amin, ST7:July 69:1389:6667
Safety Of An Elastic Beam-Column, Colin B. Brown and Roger J. Evans, TN: ST3:Mar 72:805:8755
Some Historical Statistics Related to Future Standards, Paul M. Berthouex, EE2:Apr 74:423: 10468
Spatial and Temporal Variability of Live Loads, Jong-Cherng Peir and C. Allin Cornell, ST5:May 73:903: 9747
Stability, Summary Report, A. Carpena, TB:73:II-16-605
Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449
Stochastic Frame Response Using Modal Truncation, Gary C. Hart, EM5:Oct 70:565:7596
Stochastic Model for Analysis of Pavement Systems, Hani Findakly, Fred Moavenzadeh and Joseph Soussou, TE1:Feb 74:57:10358
Stochastic Model of Turbulent Channel Flow, Jay C. Hardin and Arnold L. Sweet, EM2:Apr 71:375: 8056
Structural Design Based on Weighted Fractiles, Eero Paloheimo and Matti Hannus, ST7:July 74:1367: 10663
Structural Risk Analysis and Reliability-Based Design, Alfredo H-S. Ang, ST9:Sept 73:1891:10011
Structural Safety—A Literature Review, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
Structural Safety and Probabilistic Methods, Theme Report, C. Allin Cornell, TB:73:Ib-10-911
Structural Safety and Probabilistic Methods, Summary Report, Luis Esteva, TB:73:Ib-10-1043
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
Tocks Island Lake Project, Gerald T. McCarthy, EE4:Aug 74:803:10718
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249
Towards Risk-Based Design and Performance Criteria, Alfredo H.-S. Ang, TB:73:Ib-10-1007
Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229
Upper Bound for Two-Sided Barrier Problem, Arnold L. Sweet, EM6:Dec 69:1369:6962
Using Experimental Models to Guide Data Gathering, Charles F. Meyer, HY10:Oct 71:1681: 8449
What Safety Margin is Necessary in a Structure?, F. K. Lightenberg, TB:73:Ib-10-1032

Problem Oriented Languages

Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., George Bugliarello, Chmn., HY7:July 72:1243:9072

Problem Solving

Artificial Intelligence Continuum Mechanics, Andrew K.C. Wong and George Bugliarello, EM6:Dec 70: 1239:7779
Engineering and Society: A Contemporary Challenge, George R. Beetle, CE:Feb 71:51
Engineering and Today's Social Problems, Donald C. Slichter, CE:Mar 72:64
Goals for Dallas Program, Erik Jonsson, CE:Sept 72: 58

Procedure Oriented Languages

Computer Systems for Urban Design and Development, Niles O. Sutphin, William F. Sommerfeld, Lavette C. Teague, Jr. and G. Neil Harper, UP1:Apr 71:63:8055
Experiences With An Interactive Computing System, Leroy T. Boyer and John C. Casson, EC5:70:467
Experience With A Pol Environment, Edward L. Murphree and John W. Melin, EC5:70:489
Experience with POL Environment, Edward L. Murphree and John W. Melin, ST1:Jan 71:301:7835
Fire Intensity-Resistance Evaluation, Edward M. Krokosky, ST11:Nov 70:2501:7706
Settlement Problem Oriented Computer Language, Robert L. Schiffman, Robert V. Whitman and Jane C. Jordan, SM2:Mar 70:649:7178
Structural and Foundation Computer Based Designs, Richard F. Harig and Daniel J. McDermott, EC5: 70:515

Proceedings

Book Review: Proceedings Of The ASCE Specialty Conference On Safety And Reliability Of Metal Structures, Phillip M. Schmidt, CE:June 73:32

Process Control

Control of Anaerobic Digestion Process, Aaron S. Collins and Bobby E. Gilliland, EE2:Apr 74:487: 10475

Product Development

Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64

Production Capacity

Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61

Production Engineering

Commentary, Allan H. Sample, CEWAU:74:275
Commentary, Keith A. Foucher, CEWAU:74:281

Production Management

Optimizing the Supply of Inland Water Transport, John F. Hoffmeister, III and Richard de Neufville, WW3:Aug 73:293:9926

Productivity

Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190
Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61
Construction Productivity and Job Satisfaction, John D. Borcherding and Clarkson H. Oglesby, CO3: Sept 74:413:10826
Increase Fleet Productivity and Decrease Unit Production Costs, Omar E. Rood, Jr., CE:July 74: 84
Management the Lincoln Electric Way, CE:Jan 73:76
Remote Nozzle Permits High Production and Safety, James S. Goff, SUSS:July 73:405
Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53

Professional Activities
Action in Public Affairs -- A Way of Life, James W. McPhillips, Brian R. Hogan, Eugene R. McMaster and David A. Novick, PP2:Apr 72:181:8797
Aesthetics -- Part of Civil Engineering, Frederick M. Law, PP2:Apr 72:275:8850
American Engineering Unions, Hatim M. Hajj, PP2:Apr 73:213:9657
Antidote for Environmental Hysteria, Samuel S. Baxter, PP1:Jan 72:1:8663
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
ASCE and Graduate Students: Faculty Advisor's Opinion, Keith Charles Crandall, PP3:July 73:307:9882
ASCE Involvement in Social Action, Stephen L. Tuttle, EI3:July 74:201:10690
ASCE -- Its Role, Function and Activities on the Urban Campus, Joseph Di Sorbo, CEWAU:74:270
Bidding is Against Client Interest, John T. Merrifield, PP3:July 73:389:9878
Breaking New Ground, Oscar S. Bray, PP1:Oct 71:1:8473
Budget Constraints and Multiobjective Planning, Arthur Maass and David C. Major, PP3:July 72:359:9064
Building a Professionally Qualified Faculty, King S. Luk and Eugene H. Kopp, EI2:Apr 74:105:10466
Career Guidance Programs for Minority Youth, Lawrence M. Moy and James E. Roembke, EI3:July 74:207:10691
The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
Civil Engineering History: An Appraisal, Neal FitzSimons, PP3:July 73:327:9875
Civil Engineering in Health Care Systems, Tung Au, PP1:Oct 71:87:8470
Civil Engineering Management in Private Practice, Elmer K. Timby, PP1:July 69:17:6661
Civil Engineering Management in Public Practice, Samuel S. Baxter, PP1:July 69:23:6662
The Civil Engineer in the Multidisciplinary Design Team, David A. Novick, PP2:Apr 72:221:8826
The Civil Engineer of the Future - A Renaissance Man, David A. Novick and Sheldon Schumacher, PP1:Jan 73:9:9489
The Civil Engineer: Quiet Man or Spokesman?, Hadley Johnson, Jr., PP1:Oct 71:51:8467
Clear Communication--Key to Professional Development, M. D. Morris, PP1:Jan 72:77:8659
Commentary, Paul A. Larkin, CEWAU:74:268
Computer Use in Civil Engineering, Robert L. Schiffman and E. Rex Krueger, PP2:Apr 72:251:8834
Concepts for Ground-Water Regulatory District, Dale Twachtmann, EI1:Jan 74:69:10272
Consideration of Alternatives in Decision Making, Ellis L. Armstrong, EI2:Apr 74:119:10498
Considering Social Value in Engineering Projects, Charles G. Sudduth, PP1:Jan 72:43:8655
The Continuing Challenge of Engineering Education, Arthur G. Hansen, PP3:July 72:351:9037
Costs and Benefits Reating to Paper Mill Waste Treatment, Arthur Lesser, Jr. and Michael A. Tirabassi, EI1:Jan 74:61:10279
The Critical U.S. Energy Situation, John J. McKetta, PP2:Apr 73:171:9685
Developing Younger Member Communication, Norman L. Buehring, PP3:July 73:321:9876
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887
A Draft ASCE Statement on the Role of the Civil Engineer in the Planning and Development of New Communities in the United States Urbanization and Settlement, CE:June 73:62
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105
Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
Educating Engineers for Professional and Ethical Responsibility (Discussion), William R. Gibbs, CEE:Feb 74:2-305
Educating Engineers for Professional and Ethical Responsibility (Discussion), Dan H. Pletta, CEE:Feb 74:2-305
Educational TV Film Spots for Engineering, Kaye Finch, Frederick O. Leidel and James R. Villemonte, CEE:Feb 74:1-1015
An Educator-Practitioner Interaction Program, Subhash C. Anand, PP2:Apr 73:259:9674
The Engineer and Pollution Control -- Some Objections to the Simplistic Approach, Samuel C. Florman, PP3:July 72:383:9043
The Engineer and the Crisis of the Cities, Milton Pikarsky, PWS:Nov 72:19
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Engineering Education Versus Engineering Practice, Michael N. Goodkind, CEE:Feb 74:1-452
Engineering For People, Richard R. Harbert, PP3:July 72:387:9058
Engineering Registration - Today and Tomorrow, Rex A. Tynes, PP4:Oct 73:457:10079
Engineering 1972-A Review, Thomas C. Kavanagh, PP3:July 73:287:9889
Engineer versus Computer Strategy of Persuasion, Earl Rogers, PP1:July 69:9:6654
The Environmental Challenge--Values in Conflict, James H. Wright, PP1:Oct 71:17:8471
Ethics of Negotiating with Prospective Employers, Harold G. Biedermann, PP1:Dec 67:27:5656
Evaluation of Urban Public Transportation, Kenneth W. Heathington, EI3:July 74:241:10662
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
Foreign Service, E. C. Kobs, PP1:July 69:79:6703
Fundamentals of Comprehensive Environmental Planning, David A. Bella, EI1:Jan 74:17:10267
The Future of Private Engineering Education, Wils L. Cooley and Clive L. Dym, EI2:Apr 74:97:10458
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563:9287
Guide for Public Agency Professional Development, Marble J. Hensley, PP1:Sept 70:55:7553
Guideline: Employer—Engineer Relationship, Charles J. Stevens, Chmn., PP4:Oct 72:523:9279
Guidelines for Engaging in Public Affairs Activities, by the Committee on Public Affairs of the Member Activities Division, James W. McPhillips, Chmn., PP1:Oct 71:167:8480
The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292
How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal, Joseph L. Grant, PP2:Apr 73:159:9663
The Human Ethic, Charles R. Schrader, PP1:July 69:73:6700
Impact of Metrication on the Construction Industy, Richard H. Clough, EI3:July 74:225:10646
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Industrial Archaeology - An Avocation for Engineers, Emory L. Kemp, PP4:Oct 73:481:10087
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
Interdisciplinary Planning to Meet Environmental Needs, Frederick J. Clarke, PP4:Oct 72:497:9262
Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672

Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080

Legislative Involvement, Stephen M. Olko, PP4:Oct 72:491:9278

Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73:245:9665

Minorities In Engineering - How Does Your Company Stack Up?, Montrust Q. Burrell, EI1:Jan 74:41:10271

Minority Employment—A Job for ASCE, Sol E. Cooper, EI3:July 74:191:10689

Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075

Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514

Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299

Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502

Nader's Raiders Versus California Water Project, James H. Krieger, PP1:Jan 73:39:9490

The Nature of Continuing Education, Alfred C. Ingersoll, PP1:Jan 72:113:8660

Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084

Our Signal is Clear, Charles W. Yoder, CE:Sept 74:64

Overview of Transportation Legislation, Richard E. Briggs, PP3:July 73:381:9883

Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468

Position Paper on Civil Engineering Education, by the ASCE Committee on Engineering Education, Merit P. White, Chmn., PP1:July 69:29:6671

Positive Points on Electric Power, George R. Higgins, PP1:Jan 72:65:8666

Principles and Standards for Water and Land Resources Planning, W. Don Maughn, PP3:July 72:311:9059

Professional Development for Consulting Engineers, Gerald L. Baker, PP1:Jan 72:49:8662

Professional Education: The Need for Creativity, Charles R. Schrader, PP1:Jan 72:85:8654

Professionalization—and a Relevant Code of Ethics, Charles R. Schrader, EI4:Oct 74:337:10888

Professional Liability Insurance, Paul L. Genecki, PP2:Apr 72:213:8820

Professional Recognition -- How?, James Gordon Clark, PP2:Apr 72:169:8857

A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843

Prospectives in Bioengineering Research for Civil Engineers, George Bugliarello, PP1:Oct 71:83:8461

Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509

Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487

The Public Discussion of the Work of Other Engineers—Ethical or Unethical, Harold H. Wagle, EI1:Jan 74:37:10268

Public Participation in Environmental Design of Flood Control Channels, Phillip F. Dunn, Jr., PP3:July 72:363:9051

Public Policy: Who Speaks for the Engineer, Augustine J. Fredrich, EI1:Jan 74:1:10266

The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492

Purdue Students Tackle Social Projects, David Brenchley, Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83

"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495

Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884

Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504

The Role of the Civil Engineer in Statewide Health Planning, William H. Wisely, PP4:Oct 72:669:9284

Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083

Salary Guidelines: Enlightened Implementation or Unionization?, Jack H. McMinn, PP4:Oct 73:429:10090

Scientific Method-a Triad, Murray I. Mantell, PP1:July 69:47:6676

Significance of Safety in Civil Engineering Practice, in the Public Interest, by the ASCE Task Committee on Safety Policy, Richard N. Bergstrom, Chmn., EI1:Jan 74:11:10299

Social and Ecological Implications of Proposals for Out-of-Basin River Diversions, Bernard B. Berger, PP1:Oct 71:95:8481

Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73:59:9493

Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494

Statement of Affirmative Action Principles, Benito A. Sinclair, EI3:July 74:183:10688

Surveyor 1984, B. Austin Barry, EI3:July 74:235:10658

Systems View of Professional Engineering, Albert S. Keevil, PP1:July 69:55:6689

Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512

To Practice or Perish, Dan H. Pletta and George A. Gray, PP1:Oct 71:131:8474

Training Minorities for Construction Work, Ewell W. Finley, CE:Mar 72:76

Transit Industry Educational Interests, Frederick J. Wegmann and Edward A. Beimborn, EI4:Oct 74:313:10863

Upgrading Student Membership, Carter H. Harrison, Jr., PP1:Jan 73:119:9508

Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365:9879

Using Technology to Solve Environmental Problems, Ernest T. Smerdon and Robert B. Gaither, EI4:Oct 74:273:10847

Viaducts—A Case Study, Rowland Richards, Jr. and David G. Elms, EI4:Oct 74:293:10845

Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667

Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040

What Graduate Students Want From ASCE, Harold J. Singer, PP3:July 73:313:9881

What's the Deal? Government Negotiates Engineering Services, Richard H. Tatlow, III, PP1:Sept 70:81:7557

Which First Higher Fees or Higher Salaries, Cranston Rogers, CE:Aug 73:76

Workshops—Foundation of ASCE Grass Roots Strength, Paul A. Kuhn, EI4:Oct 74:289:10842

1973 Salary Survey, by the Committee on Employment Conditions of the Department of Professional Activities, Edward A. Bryant, Chmn., EI2:Apr 74:127:10450

20th Century Renaissance, Donald N. Anderson, PP3:July 73:373:9886

236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

Professional Advancement

The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74:1-559

Alternate Approaches to the Education of Designers, John F. Oyler and Howard H. Hobson, CEE:Feb 74:1-390

American Engineering Unions, Hatim M. Hajj, PP2:Apr 73:213:9657

Are More Women Needed in Civil Engineering, Norman J. Fulco and Eugene E. Dallaire, CE:May 73:54

Bachelor of Civil Engineering Technology at the University of North Carolina at Charlotte, Richard R. Phelps, CEE:Feb 74:1-254

Booby Traps for Young Engineers on Construction, Edward A. Merrill, CO2:Nov 71:305:8541

Can Continuing Education Teach Experience?, Arthur B. Gruver, CEE:Feb 74:1-825

Civil Engineer in Federal Government, Nicholas J. Oganovic, PP1:Sept 70:9:7546
Civil Engineering Curricula -- An Evaluation, H. Gordon Larew and John P. Bradshaw, CEE:Feb 74:1-406
Civil Engineering Education and the Bureau of Reclamation, Gilbert G. Stamm, CEE:Feb 74:1-347
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
Civil Engineering Education in Transition: A Case Study, Ralph R. Rumer, Jr. and George C. Lee, CEE:Feb 74:1-24
Civil Engineering Education Requirements for an Electric Utility, Bruce R. Laverty and Jim O. Bass, CEE:Feb 74:1-400
Civil Engineering Faculty Profile (Discussion), James H. Schaub and D. A. Eckler, CEE:Feb 74:2-298
Civil Engineering: Flexible or Rigid Program, Howard I. Epstein, CEE:Feb 74:1-16
Civil Engineers Need Construction Education, Walter L. Meyer and Robert I. Carr, CEE:Feb 74:1-545
Commentary, Keith A. Foucher, CEWAU:74:281
A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489
Conducting Civil Engineering Continuing Education, Peter C. Madsen and King S. Luk, CEE:Feb 74:1-900
Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538
A Consulting Firm in Civil Engineering Education: A History of Four Years of Participation, Eben Vey and David A. Novick, CEE:Feb 74:1-927
Continuing Education for Civil Engineers - The UCLA-ASCE Professional Certificates, Alfred C. Ingersoll, CEE:Feb 74:1-841
Continuing Education for the Engineering Educator, Edward J. Rhomberg and David A. Novick, CEE:Feb 74:1-955
Continuing the Enchancement of Mankind's Welfare: A Civil Engineer's Responsibility for Professional Development and Maintenance of Competence, C. Allen Wortley, CEE:Feb 74:1-808
Current Status of Continuing Education, C. Allen Wortley, CEE:Feb 74:2-66
Development of a Professional Construction Manager, Rolland M. Wilkening, CEE:Feb 74:1-367
Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442
Education for Leadership, C. Maxwell Stanley, CEE:Feb 74:1-312
Education of Engineering Students to become Engineers, George F. Sowers, CEE:Feb 74:1-320
Effects of Environmental Concerns on Education, Paul W. Purdom, CEE:Feb 74:1-508
Engineering Education for Public Participation, John W.N. Fead, CEE:Feb 74:1-525
Engineering Education -- Introduction, M. D. Morris, CEWAU:74:257
Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380
Engineering Education Versus Engineering Practice, Michael N. Goodkind, CEE:Feb 74:1-452
Engineering Manpower: Supply and Demand Relationships, Robert D. Kersten and John Paul Hartman, CEE:Feb 74:1-479
Engineering Societies' Program for Training Minority Manpower, Sol E. Cooper, PP1:July 69:61:6694
"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
Environmental Management Broadening the Base of Civil Engineering Education, William H. Matthews, CEE:Feb 74:1-518
Feedback from Engineering Practitioners - Summary and Review, Joseph S. Ward, CEE:Feb 74:2-79
A Flexible Civil Engineering Curriculum, James P. Olson and Joseph C. Oppenlander, CEE:Feb 74:1-48
Goals Established for ASCE Activities by the Committee on Society Objectives, Planning and Organization, Longino A. Woodman, Chmn., CE:Feb 74:39
A Growing Need for Undergraduate Education in Precast Prestressed Concrete Design, Fromy Rosenberg, CEE:Feb 74:1-382
Humanities and Social Sciences in Engineering Education, 1974, Omer Allan Gianniny, Jr., CEE:Feb 74:1-530
Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913
Industry Continuing Engineering Education, Vincent J. Vitagliano, CEE:Feb 74:1-868
Integrating Construction with Engineering, Ben C. Gerwick, Jr., CEE:Feb 74:1-598
Interchange, Ethics, Accreditation, Needs of Practice (Panel Discussions), CEE:Feb 74:2-243
Involvement of Practitioners, Broadening the Program, Technology Graduates, Students and Guidance (Panel Discussions), CEE:Feb 74:2-234
Issues of Environmental Engineering Education, Wesley O. Pipes, CEE:Feb 74:1-496
The Last Word, Arthur J. Fox, Jr., CEE:Feb 74:2-285
The Making of a Professional Civil Engineer, Gerard Roberto, Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433
Management Education for Civil Engineers, Stephens W. Nunnally and William H. Wisely, CEE:Feb 74:1-696
The ME(Civil) Program at Cornell University - Part I - Program Development, Dwight A. Sangrey and George Winter, CEE:Feb 74:1-779
The ME(Civil) Program at Cornell University - Part II - Program Implementation, Richard N. White, Vaughn C. Behn, Gerard F. Fox and Arthur Adams, CEE:Feb 74:1-787
Mid-Career Administrative Training for Engineers, William D. Brinckloe, EI4:Oct 74:325:10866
Minorities In Engineering - How Does Your Company Stack Up?, Montrust Q. Burrell, EI1:Jan 74:41:10271
Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075
Moonlighting and Professional Responsibility, George L. Reed, PP1:Sept 70:19:7548
NACE Paper: County Engineering Career Demands, David L. Weir, CEE:Feb 74:1-354
The Nature of Continuing Education, Alfred C. Ingersoll, CWFE:Mar 71:229
Needs of Engineering Education for the Future -- View of a Conuslting Engineer, William W. Moore, CEE:Feb 74:1-327
Neglected Responsibilities of Undergraduate Education, John P. Klus, CEE:Feb 74:1-566
A New Civil Engineering Curriculum at Purdue, Gerald A. Leonards, Martin J. Gutzwiller and Robert H. Lee, CEE:Feb 74:1-39
A New Profile for Engineering -- Emergence of a Learned Profession, Cornelius Wandmacher, CEE:Feb 74:1-469
Observations on Civil Engineering Executive/Management Needs as a Part of Civil Engineering Education, Walter G. Heintzleman, CEE:Feb 74:1-361
Professional Aspects of Public Works Management, Myron D. Calkins, CEE:Feb 74:1-339
Professional Development for Consulting Engineers, Gerald L. Baker, PP1:Jan 72:49:8662
The "Professional" Faculty, Waldron Murrill McLellon and Robert D. Kersten, CEE:Feb 74:1-800
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552
Professional Schools for Civil Engineering Education, James H. Schaub, CEE:Feb 74:1-735
Promising Trends in Interchange between Education and Practice, David A. Novick, CEE:Feb 74:2-180

Proposed New ASCE Policy on Engineering Education, by Ad Hoc Subcommittee for Revision of Policy C-37, William W. Moore, Chmn., John L. Rumpf, Leo W. Ruth, James H. Schaub and Ralph H. Wallace, CEE:Feb 74:1-905
Role of ASCE Student Chapters in Engineering Education, T. A. Austin and J. J. Valenta, CEE:Feb 74:1-980
The Role of Consulting in Faculty Development, Furman W. Barton, Fred C. McCormick and Henry L. Kinnier, CEE:Feb 74:1-962
A Sabbatical Leave with a Consulting Firm, Peter George Hoadley, CEE:Feb 74:1-950
Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083
A Short Course for Inexperienced Construction Engineers, Robert J. Smith, CEE:Feb 74:1-890
Some Experience with Offering Professional Education in Urban Transportation, Lester A. Hoel, CEE:Feb 74:1-850
Survey of Training Programs for Civil Engineers, Jose J. Correa, CE:Aug 69:49
Teaching Design with Practicing Engineers (Five Years of Experience), John J. Cassidy, CEE:Feb 74:1-937
Technician and Technologist Education in 1974, John L. Rumpf, CEE:Feb 74:1-210
Ten Years After: Confessions of an Overeducated Engineer, Richard M. Males, CEE:Feb 74:1-417
Three Yards and a Cloud of Dust: An Empirical Approach to Career Development for the Smaller Engineering Firm in Transition, Robert Caird Lewis, CEE:Feb 74:1-834
University Teaching by Practicing Engineers, King S. Luk, CEE:Feb 74:1-945
Ut Prosimus et Ducamus, Dan H. Pletta, CEE:Feb 74:1-459
What Should Civil Engineering Education Accomplish?, Elmer K. Timby, CEE:Feb 74:1-302
What the General Contractor Looks for in a Recent Graduate, Luther Hill, Jr., CEE:Feb 74:1-374

Professional Development

After Agnew: What's Happening in the Profession, Virginia Fairweather, CE:Feb 74:43
After Agnew: What's Happening In The Profession, Virginia Fairweather, CE:Mar 74:52
Civil Engineering: An Education for Professional Management, Boyd C. Paulson, Jr., CEE:Feb 74:1-580
Civil Engineering Education and the Bureau of Reclamation, Gilbert G. Stamm, CEE:Feb 74:1-347
The Civil Engineer of the Future - A Renaissance Man, David A. Novick and Sheldon Schumacher, PP1:Jan 73:9:9489
Clear Communication--Key to Professional Development, M. D. Morris, PP1:Jan 72:77:8659
Development of a Professional Construction Manager, Rolland M. Wilkening, CEE:Feb 74:1-367
Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442
Guidance and Motivational Programs, Stephen L. Tuttle, Bob Younger, Jack Pitts and John Moran, CEE:Feb 74:1-996
Industrial Archaeology - An Avocation for Engineers, Emory L. Kemp, PP4:Oct 73:481:10087
Land Surveying and Civil Engineering -- Professionally Related, But Different, Kenneth S. Curtis and John G. McEntyre, CEE:Feb 74:1-134
The Making of a "Pro"—A Faculty Viewpoint, Dan H. Pletta, EI3:July 74:217:10645
A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552
Straddling the Picket Fence, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, CEE:Feb 74:1-6
UCLA Professional Certificate Program in Engineering Management for Public Works, Alfred C. Ingersoll and Ricardo Gonzales, Jr., EI1:Jan 74:45:10301
University of Wisconsin Offers Professional Development Degree, John P. Klus and C. Allen Wortley, CE:Jan 72:49

Professional Engineering

The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74:1-559
Badly Needed: Changes in Building Codes for Houses, Melvin W. Jackson, CE:Apr 72:55
Berkeley Offers Professional Masters Degree, Howard D. Eberhart, CE:Nov 73:74
Bidding is Against Client Interest, John T. Merrifield, PP3:July 73:389:9878
Building a Professionally Qualified Faculty, King S. Luk and Eugene H. Kopp, EI2:Apr 74:105:10466
Can Professionalism Be Taught, Paul C. Hassler, PP1:Sept 70:33:7551
Civil Engineering: An Education for Professional Management, Boyd C. Paulson, Jr., CEE:Feb 74:1-580
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
Civil Engineering Today: A Profession in Crisis-Part I, David Carsen, CE:Jan 70:48
Civil Engineering Today: A Profession in Crisis-Part II, David Carsen, CE:Feb 70:51
The Civil Engineer's Image, Edward H. Kiessling, CEWAU:74:273
Commentary, Erwin Abonyi, CEWAU:74:248
Commentary, Paul A. Larkin, CEWAU:74:268
Commentary, Allan H. Sample, CEWAU:74:275
A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489
Conducting Civil Engineering Continuing Education, Peter C. Madsen and King S. Luk, CEE:Feb 74:1-900
Considering Social Value in Engineering Projects, Charles G. Sudduth, PP1:Jan 72:43:8655
Construction Education at North Carolina State, George H. Blessis, CEE:Feb 74:1-613
Consulting Firms Tackle Salary Guidelines, Kneeland A. Godfrey, Jr., CE:Aug 73:77
Continuing Education for Civil Engineers - The UCLA-ASCE Professional Certificates, Alfred C. Ingersoll, CEE:Feb 74:1-841
Continuing Education for the Engineering Educator, Edward J. Rhomberg and David A. Novick, CEE:Feb 74:1-955
Currents in Civil Engineering Education, Russel C. Jones, CEE:Feb 74:2-90
Doctoral Education and the Practicing Professional, Warren J. Baker and Edward J. Rhomberg, CEE:Feb 74:1-764
Educating Engineers for Professional and Ethical Responsibility (Discussion), William R. Gibbs, CEE:Feb 74:2-305
Educating Engineers for Professional and Ethical Responsibility (Discussion), Dan H. Pletta, CEE:Feb 74:2-305
Educational Needs for Engineering Practice and Recommended Follow-Up Program (Discussion), George J. Kral, CEE:Feb 74:2-345
Education for Construction Engineering and Management, John A. Havers and Donn E. Hancher, CEE:Feb 74:1-662
An Educator-Practitioner Interaction Program, Subhash C. Anand, PP2:Apr 73:259:9674
Effect of Changes in Civil Engineering Profession, John J. Cusack, PP1:Sept 70:107:7563
The Engineer and Ethical Advertising, Milton Riback, CEWAU:74:99
The Engineer and the Crisis of the Cities, Milton Pikarsky, PWS:Nov 72:19
Engineering Education Versus Engineering Practice, Michael N. Goodkind, CEE:Feb 74:1-452
Engineering For People, Richard R. Harbert, PP3:July 72:387:9058
Engineering Policies, Politics, and Pragmatism, Robert F. Baker, TE1:Feb 74:121:10320
Engineering Registration-License for What?, John W. Frazier, PP1:Sept 70:103:7562
Engineering Registration - Today and Tomorrow, Rex A. Tynes, PP4:Oct 73:457:10079

"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
Engineer versus Computer Strategy of Persuasion, Earl Rogers, PP1:July 69:9:6654
Evaluation of a University-Industry Interaction Program, Subhash C. Anand and Marvin E. Criswell, CEE:Feb 74:1-971
Evaluation of Urban Public Transportation, Kenneth W. Heathington, EI3:July 74:241:10662
Exporting Expertise -- Introduction, M. D. Morris, CEWAU:74:225
Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913
Interface Specialists: A New Engineering Profession?, Granville H. Sewell, CEWAU:74:154
Involvement of Practitioners, Broadening the Program, Technology Graduates, Students and Guidance (Panel Discussions), CEE:Feb 74:2-234
Land Surveying and Civil Engineering -- Professionally Related, But Different, Kenneth S. Curtis and John G. McEntyre, CEE:Feb 74:1-134
The Making of a Professional Civil Engineer, Gerard Roberto, Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433
The Making of a Professional Engineer - A Teamwork Approach (Discussion), William A. Hunt and Leland J. Walker, CEE:Feb 74:2-322
Metropolitan Planning and Implementation, Robert C. Einsweiler, UP2:Oct 70:113:7581
NACE Paper: County Engineering Career Demands, David L. Weir, CEE:Feb 74:1-354
A New Civil Engineering Curriculum at Purdue, Gerald A. Leonards, Martin J. Gutzwiller and Robert H. Lee, CEE:Feb 74:1-39
New Interdisciplinary Program in Construction Management at WPI, A. Fattah Chalabi, CEE:Feb 74:1-645
A New Profile for Engineering -- Emergence of a Learned Profession, Cornelius Wandmacher, CEE: Feb 74:1-469
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, CEWAU:74:227
Our Signal is Clear, Charles W. Yoder, CE:Sept 74: 64
Overseas Work and the Smaller Consulting Engineering Firm, Stephen M. Olko, CEWAU:74: 252
Participatory Management of Professionals, Thomas A. Marlow, CE:Oct 73:71
Practioner-Oriented Post-Baccalaureate Education, Ralph E. Fadum, CEE:Feb 74:1-794
Professional Approach to Marketing Engineering Services, Carl E. Nelson, CEWAU:74:131
Professional Aspects of Public Works Management, Myron D. Calkins, CEE:Feb 74:1-339
Professional Education: The Need for Creativity, Charles R. Schrader, PP1:Jan 72:85:8654
The "Professional" Faculty, Waldron Murrill McLellon and Robert D. Kersten, CEE:Feb 74:1-800
Professionalism and Unionization-Starting a Program, Jack W. Pierce, PP1:Sept 70:25:7550
A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552
The Professional School - A Sleeping Giant, Grover L. Rogers and James H. Schaub, CEE:Feb 74:1-752
Professional Schools and Programs, M. R. Lohmann, CEE:Feb 74:2-125
Professional Schools for Civil Engineering Education, James H. Schaub, CEE:Feb 74:1-735
Promising Trends in Interchange between Education and Practice, David A. Novick, CEE:Feb 74:2-180
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
Proposed New ASCE Policy on Engineering Education, by Ad Hoc Subcommittee for Revision of Policy C-37, William W. Moore, Chmn., John L. Rumpf, Leo W. Ruth, James H. Schaub and Ralph H. Wallace, CEE:Feb 74:1-905
Public Dissent and Professional Responsibility, CE: Sept 73:98
Public Policy: Who Speaks for the Engineer, Augustine J. Fredrich, EI1:Jan 74:1:10266
Responsibilities of Practicing Engineers and Technicians and Subprofessionals (Discussion), Lester A. Heer, CEE:Feb 74:2-342
Role of ASCE Student Chapters in Engineering Education, T. A. Austin and J. J. Valenta, CEE:Feb 74:1-980
The Role of Consulting in Faculty Development, Furman W. Barton, Fred C. McCormick and Henry L. Kinnier, CEE:Feb 74:1-962
The Role of the Professional in Architectural Education, David Clarke, CEE:Feb 74:2-202
A Sabbatical Leave with a Consulting Firm, Peter George Hoadley, CEE:Feb 74:1-950
Significance of Safety in Civil Engineering Practice, in the Public Interest, by the ASCE Task Committee on Safety Policy, Richard N. Bergstrom, Chmn., EI1:Jan 74:11:10299
Dsc, Society and technology, Felipe U. Derteano, CE:May 72:54
The Socio-Engineering Program at S.U.N.Y.-Buffalo, George C. Lee, CEE:Feb 74:1-703
Some Experience with Offering Professional Education in Urban Transportation, Lester A. Hoel, CEE:Feb 74:1-850
Teaching Design with Practicing Engineers (Five Years of Experience), John J. Cassidy, CEE:Feb 74: 1-937
Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512
Ten Years After: Confessions of an Overeducated Engineer, Richard M. Males, CEE:Feb 74:1-417
Trends in Environmental Engineering Education, Robert M. Sykes, CEE:Feb 74:2-138
University Teaching by Practicing Engineers, King S. Luk, CEE:Feb 74:1-945
Ut Prosimus et Ducamus, Dan H. Pletta, CEE:Feb 74:1-459
Welcoming Remarks at the Tall Buildings Conference, Oscar S. Bray, President, ASCE, TB: 73:C-27
What the General Contractor Looks for in a Recent Graduate, Luther Hill, Jr., CEE:Feb 74:1-374

Professional Personnel
The Alternative to Unionism, William H. Wisely, CE: Feb 71:43
Collective Bargaining for Public Employees, Myron D. Calkins, CE:Oct 69:40
Engineering-Architecture Interprofessional Practice, William H. Wisely, CE:Apr 71:37
Guidelines for Employer-Engineer Relationships, CE: July 71:57
Professional Input to Engineering Education, William H. Wisely, CE:Aug 71:27

Professional Practice
Aesthetics -- Part of Civil Engineering, Frederick M. Law, PP2:Apr 72:275:8850
ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77
ASCE Salary Survey, Charles J. Stevens, Chmn., PP3:July 72:393:9025
A Black Civil Engineer Looks at His Profession, Frederick E. Jordan, CE:Sept 69:93
Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
Building a Professionally Qualified Faculty, King S. Luk and Eugene H. Kopp, EI2:Apr 74:105:10466
Can Professionalism Be Taught, Paul C. Hassler, PP1: Sept 70:33:7551
The Civil Engineer and Elective Office, Brian J. Lewis, CE:Apr 74:65
Civil Engineer in Federal Government, Nicholas J. Oganovic, PP1:Sept 70:9:7546
Civil Engineering Education: A Preparation for Management, John A. Havers, PP1:Sept 70:1:7544
Clear Communication--Key to Professional Development, M. D. Morris, PP1:Jan 72:77:8659

Commercialism in Tax-Favored Institutions, Samuel H. Clark and Raymond Lundgren, PP1:Sept 70:93:7560
Competitive Bidding on Foreign Work, E. Montford Fucik, PP1:Oct 71:121:8456
Education Today for Environmental Challenges Tomorrow, Russell S. Stearns, PP1:Oct 70:67:7554
Effect of Changes in Civil Engineering Profession, John J. Cusack, PP1:Sept 70:107:7563
The Engineer and the Crisis of the Cities, Milton Pikarsky, PWS:Nov 72:19
Engineering Education and a Professional Ethic, Charles R. Schrader, PP1:Oct 71:147:8460
Engineering Licensure Innovations, C. Allen Wortley, EI3:July 74:213:10642
Engineering Policies, Politics, and Pragmatism, Robert F. Baker, TE1:Feb 74:121:10320
Engineering Registration-License for What?, John W. Frazier, PP1:Sept 70:103:7562
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
Engineers in Public Practice Face the Union Problem, Waldo G. Bowman, CE:Apr 69:49
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
In Defense of Dubos and Ellul, Kim de Rubertis, CE:Dec 72:51
Is Professional Ethics Dead?, CE:Nov 74:71
Metropolitan Planning and Implementation, Robert C. Einsweiler, UP2:Oct 70:113:7581
Moonlighting and Professional Responsibility, George L. Reed, PP1:Sept 70:19:7548
The Municipal Engineer's Role in Planning Water Resources Development, Mercel J. Shelton, PP1:Dec 67:37:5668
A New Philosophy on Preservation of Survey Evidence, R. B. Buckner, SU2:Sept 70:213:7540
Our Priceless Heritage, Our Youth, Leon Jaworski, CE:Mar 73:76
Planning and Engineering by Agency-Consultant Team, Louis W. Riggs, UP2:Oct 70:105:7585
Professional Education: The Need for Creativity, Charles R. Schrader, PP1:Jan 72:85:8654
Professionalism and Unionization-Starting a Program, Jack W. Pierce, PP1:Sept 70:25:7550
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
Professional Liability Insurance, Paul L. Genecki, PP2:Apr 72:213:8820
Professional Practice for the Young Engineer, Charles S. Hedges, PP1:Sept 70:89:7558
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
The Public Discussion of the Work of Other Engineers—Ethical or Unethical, Harold H. Wagle, EI1:Jan 74:37:10268
Public Dissent and Professional Responsibility, CE:Sept 73:98
Registration of Engineers, Arthur R. Watson, Chmn., PP1:June 68:1:5983
Responsibility in Weather Modification Operation, Merlin C. Williams and Richard A. Schleusener, IR1:Mar 70:61:7171
Retirement Plan Study, Arnold Olitt, PP1:Sept 70:39:7552
State of the Society, Oscar S. Bray, PP4:Oct 72:481:9291
To Practice or Perish, Dan H. Pletta and George A. Gray, PP1:Oct 71:131:8474
Urban Engineering in the University, William T. Hafferty, PP1:Sept 70:15:7547
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53
1969 ASCE Salary Survey, W. W. Ewell, Chmn., PP1:Sept 70:111:7500
1973 Salary Survey, by the Committee on Employment Conditions of the Department of Professional Activities, Edward A. Bryant, Chmn., EI2:Apr 74:127:10450

Professional Schools

Doctoral Education and the Practicing Professional, Warren J. Baker and Edward J. Rhomberg, CEE:Feb 74:1-764
The ME(Civil) Program at Cornell University - Part 1 - Program Development, Dwight A. Sangrey and George Winter, CEE:Feb 74:1-779
The ME(Civil) Program at Cornell University - Part II - Program Implementation, Richard N. White, Vaughn C. Behn, Gerard F. Fox and Arthur Adams, CEE:Feb 74:1-787
Practioner-Oriented Post-Baccalaureate Education, Ralph E. Fadum, CEE:Feb 74:1-794
The "Professional" Faculty, Waldron Murrill McLellon and Robert D. Kersten, CEE:Feb 74:1-800
The Professional School - A Sleeping Giant, Grover L. Rogers and James H. Schaub, CEE:Feb 74:1-752
Professional Schools for Civil Engineering Education, James H. Schaub, CEE:Feb 74:1-735
A Proposed Doctor of Engineering Program, Fred J. Benson and Charles H. Samson, Jr., CEE:Feb 74:1-772

Professional Societies

Design Standards for Wastewater Treatment Systems, Robert A. Canham and Louis L. Guy, Jr., CE:Feb 72:40
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
Profile of ASCE Membership, George K. Wadlin, Jr., CE:Jan 72:39
State of the Society, Oscar S. Bray, PP4:Oct 72:481:9291
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897

Profiles

Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73:771:9733

Profits

Commercialism in Tax-Favored Institutions, Samuel H. Clark and Raymond Lundgren, PP1:Sept 70:93:7560
Optimum Life of Equipment for Maximum Profit, James Douglas, CO1:Jan 68:41:5745
Retirement Plan Study, Arnold Olitt, PP1:Sept 70:39:7552
Transportation Innovation: Making It Profitable, C. Wade Tambor, UTI:71:421

Programming Languages

Computational Procedures For Flow Resistance Laws, Alan A. Smith, HY3:Mar 70:665:7142
Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., George Bugliarello, Chmn., HY7:July 72:1243:9072
Cost-Effective Matching of Task and Computing Device, Ralph E. Miller, Jr. and John McCaslin, EC5:70:543
Experiences With An Interactive Computing System, Leroy T. Boyer and John C. Casson, EC5:70:467
Experience With A Pol Environment, Edward L. Murphree and John W. Melin, EC5:70:489
Experience with POL Environment, Edward L. Murphree and John W. Melin, ST1:Jan 71:301:7835
Structural and Foundation Computer Based Designs, Richard F. Harig and Daniel J. McDermott, EC5:70:515

Programs

Close-Range Photogrammetric Data Reduction Scheme, Dennis E. Moellman and Houssam M. Karara, SU2:Sept 68:211:6106
Committee Rap Sessions (Panel Discussions), CEE:Feb 74:2-254

Continuing Education and Broadening the Program (Discussion), William A. Conwell, CEE:Feb 74:2-338

Education Profile for Consulting Engineering: A Case Study (Discussion), Melvin I. Esrig, CEE:Feb 74:2-314

Emerging Trends in Construction Education - Summary Statement and Overview, Paul W. Scheele, CEE:Feb 74:2-104

Graduate Civil Engineering Programs, Thomas E. Stelson, CEE:Feb 74:2-36

Professional Schools and Programs, M. R. Lohmann, CEE:Feb 74:2-125

Promising and Expanding Programs (Panel Discussions), CEE:Feb 74:2-225

Promising Trends in Continuing Education - Programs Available, Alfred C. Ingersoll, CEE:Feb 74:2-149

Technician and Technology Programs, John L. Rumpf, CEE:Feb 74:2-49

Undergraduate Civil Engineering Programs, David A. VanHorn, CEE:Feb 74:2-25

Project Control

Business Development and the Selection Process, George S. Korbay, EPMT:73:21

Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60

Planning Monitoring Frequencies for CPM Projects, Douglas Vasco Costa, CO2:Nov 71:211:8503

Professional Construction Management and Project Administration, by William B. Foxhall (Book Review), Robert F. Lathlaen, CE:June 72:8

Project Control Using CPM, James J. O'Brien, CE: Apr 74:68

Project Feasibility

Bad Creek Pumped Storage Project, James G. Hester and Robert F. Edmonds, EPCE:Aug 74:241

Boulder Creek - An Environmental Status Report, Gerard E. Mick, CO1:Mar 74:1:10389

Business Development and the Selection Process, George S. Korbay, EPMT:73:21

Development of a Planning Program: A Case Study, William K. Johnson, Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71

Doctoral Education and the Practicing Professional, Warren J. Baker and Edward J. Rhomberg, CEE: Feb 74:1-764

Ecological Impacts of Freeway Construction, Norbert Pointner, UT73:May 73:215

Effects of Environmental Concerns on Education, Paul W. Purdom, CEE:Feb 74:1-508

Employment Survey -- Environmental Technology, Robert H. Creamer, CEE:Feb 74:1-270

Engineering Education Versus Engineering Practice, Michael N. Goodkind, CEE:Feb 74:1-452

The Environmental Capacity of Roadway Networks, Robert J. Maxman and Carl P. Sharpe, UT73:May 73:237

Environmental Concerns and the Controversial Project, Elmer B. Isaak, UT73:May 73:299

Environmental Design and Construction Response on Highway Relocations for Mountain Reservoir, Phillip L. Cole and Sydney Steinborn, CO1:Mar 74: 7:10398

Environmental Impact of the New Jersey Turnpike Toms River Extension, John C. Goodrich and Byron H. Willis, UT73:May 73:253

Environmental Studies for Rocky Mountain Highway, Austin B. Milhollin, UP1:Mar 74:17: 10387

Evaluating Regional Plans and Community Impacts, Joseph L. Schofer and Darwin G. Stuart, UP1:Mar 74:93:10412

Introducing Undergraduates to Environmental Quality, Alonzo W. Lawrence, CEE:Feb 74:1-83

Issues of Environmental Engineering Education, Wesley O. Pipes, CEE:Feb 74:1-496

Modern Civil-Environmental Engineering Curriculum, Herman A.J. Kuhn and William D. Berg, CEE:Feb 74:1-104

"NEPA and the Courts, a Legal Analysis of the National Environmental Policy Act," by Frederick R. Anderson (Book Review), Joseph F. Hennessey and John M. Heckhard, CE:Apr 74:36

New Directions and Techniques in Highway Location Planning, Stanley L. Peters, TE2:May 74: 305:10518

Offshore Airport Site Planning, Frank T. Wheby, TE3:Aug 74:543:10725

Optimal Development of Multipurpose Hydro Projects, Phillip R. Hoffman, PO1:July 74:43:10655

Quantifying Impact of Transportation Systems, William L. Smith, UP1:Mar 74:79:10416

Railroad Track Relocation Saves Time, Money, John G. Fry, CE:May 74:86

Reappraising Metropolitan Transportation Needs, Thomas F. Humphrey, TE2:May 74:353:10532

Selected Approaches to Environmental Impact Evaluation of Regional Alternatives, Salvatore J. Bellomo and Sally D. Liff, UT73:May 73:273

Socio-Technical Programs in Civil Engineering at O.S.U., Michael B. Godfrey and Elbert E. Whitlatch, Jr., CEE:Feb 74:1-713

Some Ecological Criteria for the Preparation and Review of Environmental Impact Statements, Conrad A. Istock, UT73:May 73:163

Steel Pipe Design—Criteria For Oil, Water, Gas And Slurry Services, William R. DeKeyser, Ralph C. Hughes, L. I. Elder and G. R. Wilson, CE:Mar 74: 64

A Study in Community Support: The Wheat Ridge Story, Boyd A. Kraemer, BP73:Dec 73:285

The Urban and Environmental Engineering Program at the University of North Carolina at Charlotte, Jack B. Evett, CEE:Feb 74:1-90

Venice Waterways Project Impact Reports, Donald C. Tillman and Lloyd D. Paulsen, UP2:Nov 74:191: 10935

Water Resources Planning in Appalachia, Stephen S. Fuller, UP2:Oct 70:123:7599

WPI Plan -- From Concept to Reality, Armand J. Silva and William R. Grogan, CEE:Feb 74:1-64

WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121

Projectiles

Depth Prediction For Earth-Penetrating Projectiles, C. Wayne Young, SM3:May 69:803:6558

Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592

Prediction Method for Projectile Penetration, James D. Murff and Harry M. Goyle, TN: SM11:Nov 73: 1033:10/48

Project Management

An American Engineer in Israel, Irving Kett, CE: June 72:63

Book Review: Precedence Networks For Project Planning And Control, John A. Cunningham, CE: Dec 73:24

Continuing Education of Construction Management Personnel, Kenneth R. Ware, CEE:Feb 74:1-881

Effective Project Management Techniques, Robert P. Wadell, Chmn., EPMT:73, 77pp.

Financial Considerations of Effective Project Management Techniques, Marion T. Hvidt, EPMT: 73:71

Networking Methods for Project Planning and Control, Antoine E. Naaman, CO3:Sept 74:357: 10814

New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60

Project Control Using CPM, James J. O'Brien, CE: Apr 74:68

Project Planning

Book Review: Precedence Networks For Project Planning And Control, John A. Cunningham, CE: Dec 73:24

Can Development and Ecology be Reconciled?, John E. Skinner, CE:Apr 71:67

Coordinated Land and Water Planning Proposed to Avoid Killing of Projects, Charles F. Luce, CE:May 71:75
WPI Plan -- From Concept to Reality, Armand J. Silva and William R. Grogan, CEE:Feb 74:1-64

Projects
The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74:1-559
AMP Centre, Peddle, Thorp and Walker, TB:73:C-P-402
Athens Tower, A. Albertis-TH. Dimopoulos S.A., TB:73:C-P-502
Australia Square, Seidler & Associates, TB:73:C-P-418
Bank of New South Wales, Peddle, Thorp and Walker, TB:73:C-P-408
Brandywine Building, Vincent G. Kling and Partners, TB:73:C-P-386
Building B -- Santiago Central Development Program, J. Aguirre, C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
Central Penn National Bank, Vincent G. Kling and Partners, TB:73:C-P-362
Central Square, Fox & Associates, TB:73:C-P-424
Centre Square, Vincent G. Kling and Partners, TB:73:C-P-390
Century Park Plaza, Welton Becket and Associates, TB:73:C-P-334
Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462
Chestnut-DeWitt Apartments, Skidmore, Owings & Merrill, TB:73:C-P-496
The Chicago Civic Center, Skidmore, Owings & Merrill, TB:73:C-P-492
CIL House, M. I. Gilmore, TB:73:C-P-284
Citizens Fidelity Bank, Welton Becket and Associates, TB:73:C-P-330
Civil Engineering: An Education for Professional Management, Boyd C. Paulson, Jr., CEE:Feb 74:1-580
Clinton Square, Welton Becket and Associates, TB:73:C-P-338
Commerce Court, M. I. Gilmore, TB:73:C-P-294
Crestline Apartments, Grigalis & Associates, TB:73:C-P-458
Empresa Nacional de Electricidad S. A. - Endesa's Building, Luis Larraguibel, TB:73:C-P-478
Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1:Jan 72:33:8657
Exchange Centre, Peddle, Thorp and Walker, TB:73:C-P-406
Fidelity Mutual Life, Vincent G. Kling and Partners, TB:73:C-P-368
Finland House, Kahn & Jacobs, TB:73:C-P-350
First & Merchants National Bank, Welton Becket and Associates, TB:73:C-P-322
First National Bank of Oregon, Ormond Robert Berry, TB:73:C-P-258
First Wisconsin Center, Skidmore, Owings & Merrill, TB:73:C-P-494
Foreword, ASCE-IABSE Joint Committee on Tall Buildings, TB:73:C-P-229
Government Offices and Conference Center (Nairobi), Gordon Melvin & Partners, TB:73:C-P-436
Hampshire Plaza, Welton Becket and Associates, TB:73:C-P-342
Hotel "Intourist" Smolenskaya Square, N. P. Melnikov, TB:73:C-P-240
Information Utilization in Project Planning, Donald E. Kawal, CO2:Nov 71:227:8505
John Hancock Center, Skidmore, Owings & Merrill, TB:73:C-P-498
Le Chateau Champlain, T. A. Monti, TB:73:C-P-278
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
McGraw-Hill, Harrison & Abramovitz, TB:73:C-P-430
The ME(Civil) Program at Cornell University - Part II - Program Implementation, Richard N. White, Vaughn C. Behn, Gerard F. Fox and Arthur Adams, CEE:Feb 74:1-787
M.L.C. Centre, Seidler & Associates, TB:73:C-P-426
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456
Nauru House, Perrott, Lyon, Timlock & Kesa, TB:73:C-P-428
Old Hall Street Development -- Liverpool, Alastair J.M. Soane, TB:73:C-P-231
One Astor Plaza, Kahn & Jacobs, TB:73:C-P-348
One Hundred Summer Street, Welton Becket and Associates, TB:73:C-P-314
One Shell Plaza, Skidmore, Owings & Merrill, TB:73:C-P-488
One Shell Square, Skidmore, Owings & Merrill, TB:73:C-P-490
Optimality of Heuristic Sequencing Technique, Thomas L. Morin, TN: HY8:Aug 74:1195:10748
Penn Center, Vincent G. Kling and Partners, TB:73:C-P-380
Pittsburgh National Building, Welton Becket and Associates, TB:73:C-P-310
Project Planning, John M. Shields, SU1:July 72:61:9041
Prudential Insurance Tower, Charles Luckman Associates, TB:73:C-P-358
Rotonda Vitacura Building, J. Aguirre and A. Aguirre, TB:73:C-P-482
Royal Bank Building, M. I. Gilmore, TB:73:C-P-288
Royal Exchange Building, Peddle, Thorp and Walker, TB:73:C-P-414
Sears Tower, Skidmore, Owings & Merrill, TB:73:C-P-500
Standard Bank Centre (Johannesburg S.A.), Hentrich - Petschnigg & Partner, TB:73:C-P-446
Standard Oil of Indiana Building in Chicago, E. Alfred Picardi, TB:73:C-P-244
Standard Oil of N.J., Harrison & Abramovitz, TB:73:C-P-431
State Office Building, Dalton, Dalton, Little & Newport, TB:73:C-P-434
Stock Exchange Building, Vincent G. Kling and Partners, TB:73:C-P-372
Straddling the Picket Fence, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, CEE:Feb 74:1-6
Thyssenhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-448
Toronto-Dominion Center, M. I. Gilmore, TB:73:C-P-301
Tour Apogee, Skidmore, Owings & Merrill, TB:73:C-P-486
Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
Unileverhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-450
Union Bank, Welton Becket and Associates, TB:73:C-P-326
United California Bank, Ormond Robert Berry, TB:73:C-P-251
United States Steel Corporation Building, Harrison & Abramovitz, TB:73:C-P-432
University of Delaware Dormitories, Charles Luckman Associates, TB:73:C-P-360
Valley Center, Welton Becket and Associates, TB:73:C-P-318
The Viennese Subway System, Max Ellinger, TB:73:C-P-269
The Wainwright Building, John D. Randall, TB:73:C-P-352
Westchester County Courthouse, Welton Becket and Associates, TB:73:C-P-302
WPI Plan -- From Concept to Reality, Armand J. Silva and William R. Grogan, CEE:Feb 74:1-64
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394
200 West Monroe Building, Welton Becket and Associates, TB:73:C-P-306
2001 Bryan Street Tower, Neuhaus & Taylor, TB:73:C-P-282

Proportioning
Optimum Proportions for I-Shaped Beams, Charles G. Schilling, ST12:Dec 74:2385:11007

Volumetric Proportioning, Blending, and Mixing, Ralph W. Coho, Jr., SUSS:July 73:101

Protamines
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590

Protection
Minimum Cover for Buried Flexible Conduits, Reynold K. Watkins, Massood Ghavami and G. Reed Longhurst, PL1:Oct 68:155:6195
Off-shore Mooring Systems at Protected or Semi-protected Locations, Albert Steenmeyer, BMS:71: 224

Protective Clothing
Surveying Safety, John M. Shields and Jack J. Wilks, SU1:July 72:67:9057

Protective Coatings
Bridge Deck Protection and Resurfacing, Roland A. Pettitt, ST4:Apr 70:791:7217
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327
Chemical Resistant Resurfacing Mortar for Industry, Dallas Grenley and Lou Kuhlmann, CO2:June 74: 133:10603
Investigations into Control of Seepage, Walter G. Brusey, IMROD:Sept 73:616
Performance Requirements for Fireproofing Materials, Lawrence G. Seigel, EM3:June 74:489: 10598
Pipeline Design to Reduce Anchor and Fishing Board Damage, Robert J. Brown, TE2:May 73:199: 9716
Sulfuric Acid Attack on Concrete Sewer Pipe, Alvin H. Meyer and William B. Ledbetter, SA5:Oct 70: 1167:7624

Prototypes
Navigation Model Tests for Straight Reach of Missouri River, Duane J. Sveum and Warren J. Mellema, WW2:May 72:191:8867

Protozoa
Halogen Action on Bacteria, Viruses, and Protozoa, Cornelius W. Kruse, Yu-Chih Hsu, Annabel C. Griffiths and Richard Stringer, NSCD:71:113

Protuberances
Wind Load on Cylinder With Spanwise Protrusion, David F. James and Quan-Si Truong, EM6:Dec 72: 1573:9416

Psychological Aspects
Behavioral Perspective for Transportation Planning, D. Geoffrey Hayward, MTI:May 72:27
Behavior Setting, Synormorphy, and Environmental Design, Paul V. Gump and Julius Marek, ABS:71: 61
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139

Psychological Effects
Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137
Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868

Psychology
Behavioral Aspects of High Rise Buildings, Roy C. Herrenkohl, BP73:Dec 73:442

Public Administration
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880
Politics Of Water Resources Development, Daniel M. Ogden, Jr., SEA:70:353
Public Policy: Who Speaks for the Engineer, Augustine J. Fredrich, EI1:Jan 74:1:10266

Publications
Building a Professionally Qualified Faculty, King S. Luk and Eugene H. Kopp, EI2:Apr 74:105:10466
Construction of Prestressed Concrete Structure, by Ben C. Gerwick, Jr. (Book Review), Shu-T'ien Li, CE:Feb 72:18
Industry Continuing Engineering Education, Vincent J. Vitagliano, CEE:Feb 74:1-868
List of Information Sources for Airport Planners, Robert K. Palmer, TE1:Feb 72:131:8721
Matrix Structural Analysis, by John L. Meek (Book Review), Richard N. Wright, CE:Jan 72:16
Dsc, Request for Technical Publications, Marcelo Fernandes Cascione, CE:Aug 72:64

Public Benefits
Some Notes on Approaches and Viewpoints of Private Agencies to Metropolitan Water Management, Stifel W. Jens, UWRM:71:47

Public Health
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
Balancing Transportation, John E. Hirten, BP73:Dec 73:1
Chlorine Disinfection of Low Temperature Waters, Leroy C. Reid, Jr. and Dale A. Carlson, EE2:Apr 74:339:10443
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73: 69:9599
Disposal of Domestic Wastewater by Hillside Sprays, Endel Sepp, EE2:Apr 73:109:9673
Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100
Engineering Evaluation of Virus Hazard in Water, by the Committee on Environmental Quality Management of the Sanitary Engineering Division, Bernard B. Berger, Chmn., SA1:Feb 70:111:7112
Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994
Environmental Protection for Nuclear Applications, Dade W. Moeller and Abraham S. Goldin, SA3: June 69:373:6589
Health Aspects of Water Management, Daniel A. Okun, PWS:Nov 72:133
Impact of OSHA on Designers, Vernie G. Lindstrom, CE:July 73:85
Indoor Territoriality: An Anthropological Perspective, Donald A. Kennedy, ABS:71:37
Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65
Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299
Public Health Effects of Water, Air and Land Pollution, Gwilym M. Roberts, PWS:Nov 72:117
Public Health Factors in Reactor Site Selection, J. G. Terrill, C. L. Weaver, E. D. Harward and J. M. Smith, SA3:June 69:545:6620
Rationale of Standards for Use of Reclaimed Water, Herbert B. Foster, Jr. and William F. Jopling, SA3: June 69:503:6609
Students Tackle Pollution Problems, Darrell J. Turner, CE:Sept 70:51
Territorial Behavior and Preservation in Relation to Environmental Quality, Eugene P. Odum, ABS:71: 53
Viral Pollution of Shellfish in Estuary Waters, T. G. Metcalf and W. C. Stiles, SA4:Aug 68:595:6063
Water and Health-Are We Concerned Enough?, Walter A. Lyon, SA5:Oct 70:1147:7595
Will Air Pollution Regulations Change Commuting Patterns?, William D. Ruckelshaus, CE:Sept 71:86

Publicity
Commentary, Warren Friedman, CEWAU:74:117
The Engineer and Ethical Advertising, Milton Riback, CEWAU:74:99
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE: Sept 72:54
Professional Approach to Marketing Engineering Services, Carl E. Nelson, CEWAU:74:131

Public Land

Recommended Right-of-Way Practices, Harmer A. Weeden, CE:Apr 72:74

Public Law

Instruction in Urban Planning for Civil Engineers, Peter S. Parsonson, UP1:Mar 70:23:7127

Responsibility in Weather Modification Operation, Merlin C. Williams and Richard A. Schleusener, IR1:Mar 70:61:7171

Public Opinion

Behavior and Transit Vehicle Design, Robert Lepper, MTI:May 72:37

The City is the People--So is the Planning/Building Process, Morton Hoppenfeld, ABS:71:91

The Civil Engineer: Quiet Man or Spokesman?, Hadley Johnson, Jr., PP1:Oct 71:51:8467

Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE: Sept 72:54

Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71: 601:8613

Priorities: Engineering education; ASCE; Pollution Control, Thomas M. Niles, CE:July 70:60

Reaction to USCOLD's Proposed Law for Dam Safety, Alfred R. Golze, IMROD:Sept 73:282

Residential Environment and Adjustment: The Special Case of the Elderly, Kermit K. Schooler, ABS:71:43

Role of the Public in Weather Modification, Adrian R. Chamberlain, IR73:Aug 73:171

Territorial Behavior and Preservation in Relation to Environmental Quality, Eugene P. Odum, ABS:71: 53

Water Management and the Public, Duane W. Hill and Roy L. Meek, UWRM:71:43

Public Relations

Action in Public Affairs -- A Way of Life, James W. McPhillips, Brian R. Hogan, Eugene R. McMaster and David A. Novick, PP2:Apr 72:181:8797

Are We Really in Trouble, Samuel S. Baxter, WQEF: Mar 70:83

Bikeway Planning/Construction - A PR Tool, John F. Graham, BP73:Dec 73:200

The Civil Engineer's Image, Edward H. Kiessling, CEWAU:74:273

Client Relations, Chandler P. Young, EPMT:73:63

Commentary, Warren Friedman, CEWAU:74:117

Commentary, Ernest N. Linder, CEWAU:74:262

Communications -- Introduction, M. D. Morris, CEWAU:74:95

Community Decision Structure and Urban Planning Process, Thomas J. Hillegass, Charles C. Schimpeler and William L. Grecco, UP1:Mar 70:17: 7126

Community Service and Urban Problems: Can Civil Engineers Make a Contribution?, Maynard Charles Nugent, CE:Jan 70:53

The Continuing Challenge of Engineering Education, Arthur G. Hansen, PP3:July 72:351:9037

Educational TV Film Spots for Engineering, Kaye Finch, Frederick O. Leidel and James R. Villemonte, CEE:Feb 74:1-1015

Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367: 9751

The Engineer and Ethical Advertising, Milton Riback, CEWAU:74:99

Engineering and Society: A Contemporary Challenge, George R. Beetle, CE:Feb 71:51

Engineers and the Public Press, William H. Wisely, CE:Dec 69:31

Environmental Impact Statements Discussed, CE:Feb 73:61

Let's Make the Needs Known so Someone Will Do Something About Them, Lawrence D. Dahms, NA: Mar 71:1

Our Water Maze, Maurice K. Goddard, WQEF:Mar 70:107

Overseas Work and the Smaller Consulting Engineering Firm, Stephen M. Olko, CEWAU:74: 252

Priorities: Engineering education; ASCE; Pollution Control, Thomas M. Niles, CE:July 70:60

Promotion as a Bikeway Planning Factor, Norman R. Hawirko, BP73:Dec 73:661

Public Participation in Planning the St. John River, Desmond M. Connor and Keith T. Bradley, OIDS: 72:279

Public Participation in Urban Water Planning, Thomas C. Ferrara, Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585

Public Relations and Public Service Papers in the Los Angeles Section, Irvan F. Mendenhall, CE:June 69: 47

Some Challenge Posed by Traditional Institutions and Practices, Gene E. Willeke, UWRM:71:61

Water Management and the Public, Duane W. Hill and Roy L. Meek, UWRM:71:43

Water Quality Standards and the Citizen, Mrs. Donald E. Clusen, WQEF:Mar 70:37

Public Works

Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102

Citizen Participation: Here to Stay, Gene E. Willeke, CE:Jan 74:78

Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600

Continuing Education for Civil Engineers - The UCLA-ASCE Professional Certificates, Alfred C. Ingersoll, CEE:Feb 74:1-841

Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862

Educating Public Works Engineers and Administrators, Donald C. Stone, CEE:Feb 74:1-679

Education for Public Works Engineering and Proposed ASCE Policy on Engineering Education (Discussion), Donald C. Stone, CEE:Feb 74:2-294

The Engineer and the Crisis of the Cities, Milton Pikarsky, PWS:Nov 72:19

Financing Municipal Solid Waste Management Systems, Robert M. Clark and Richard O. Toftner, SA4:Aug 70:885:7449

Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597

Management Degree Program for Employed Public Works Directors, A. Morgan Johnson, CEE:Feb 74: 1-728

Mid-Career Administrative Training for Engineers, William D. Brinckloe, EI4:Oct 74:325:10866

Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928

Policy Development--An Emerging Role for Civil Engineers, Robert F. Baker, PP1:Oct 71:35:8478

Professional Aspects of Public Works Management, Myron D. Calkins, CEE:Feb 74:1-339

Promising Trends in Education in Public Works Engineering, Herbert A. Goetsch, CEE:Feb 74:2-114

Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517

Public Works Capacity Expansion Based on Unit Cost, Carter H. Harrison, Jr., HY11:Nov 74:1707: 10955

Public Works Engineering and Administration- The Pittsburgh Experience, George M. Tomsho and Joel I. Abrams, CEE:Feb 74:1-723

Role of Government in Public Works, Peter Corradi, PWS:Nov 72:187

Role of Government in Public Works Development, William Harris, Sir, PWS:Nov 72:167

Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991

UCLA Professional Certificate Program in Engineering Management for Public Works, Alfred C. Ingersoll and Ricardo Gonzales, Jr., EI1:Jan 74: 45:10301

Urban Growth and Public Works Planning, John Armour, PWS:Nov 72:3

Walt Disney World -- A Philosophy of Planning, William E. Potter, PWS:Nov 72:71

Puerto Rico

Good Esthetics a "Happy Accident?", Ignacio Martin, CE:Dec 74:71

Landslides in Weathered Volcanics in Puerto Rico, George F. Sowers, 4PCSM:71:II105

The Practice of Foundation Engineering in the Commonwealth of Puerto Rico, Efrahim Murati, 4PCSM:71:II391

Public Irrigation Systems In Puerto Rico, Garcia Rafael Reyes, IR1:Mar 71:109:7953

Pull-Out Tests

Pullout Resistance of Anchors Buried in Sand, Kent A. Healy, TN: SM11:Nov 71:1615:8511

Pulp and Paper Industry

Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73: 365:9713

Dynamic Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE4:Aug 74:869:10701

Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543

Static Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE3:June 74:529:10572

Pulp Mills

Nitrogen Transformation in Activated Sludge Treatment, Jerzy Ganczarczyk, SA3:June 71:247: 8163

Pulsation

Water Waves Generated by Landslides in Reservoirs, Robert L. Wiegel, Edward K. Noda, Edward M. Kuba, Dennis M. Dee and Gordon F. Tornberg, WW2:May 70:307:7279

Pulses

Basic Principles of Pulse Irrigation, David Karmeli and Gideon Peri, IR3:Sept 74:309:10831

Pump Drainage

Change in Quality of Pumped Drainage Effluent, Enos J. Carlson, IR73:Aug 73:195

Pump Drainage in Carolina Bays, Coy W. Doty, IR4: Dec 73:465:10244

Pumped Storage

Advantages Of Inclined-Axis Hydroelectric Units, V. Shannon and Charles H. Fogg, PO2:Mar 71:395: 7948

Antilon Lake Pumped Storage Project, James V. Williamson, EPCE:Aug 74:439

Aquatic Studies at Ludington Pumped Storage Project, John Z. Reynolds, Peter I. Tack and Charles R. Liston, EPCE:Aug 74:227

Automation in California's State Water Project, Robin R. Reynolds and Welby R. Madsen, PL3: Nov 67:15:5574

Bad Creek Pumped Storage Project, James G. Hester and Robert F. Edmonds, EPCE:Aug 74:241

Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54

Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826

Condenser Cooling and Pumped-Storage Reservoirs, Eli Sefchovich, PO3:July 71:611:8247

Construction of a Pumped Storage Power Plant on Soil Foundations, Robert L. Polvi, EFFD:Mar 74: 143

Design of Carters Pumped Storage Project, Walter W. Burdin, PO3:June 70:383:7353

Edward Hyatt (Orville) Underground Power Plant, Alfred R. Golze, PO2:Mar 71:419:7950

Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1: May 73:205:9738

The Future of Pumped Storage Generation in the Nuclear Power Age, Kenneth E. Sorensen, CE:Mar 69:66

Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810

Jet-Forced Circulations in Water-Supply Reservoirs, Rodney J. Sobey and Stuart B. Savage, HY12:Dec 74:1809:11026

Ludington, Mich., Pumped Storage Project, Carl F. Whitehead, CE:June 73:64

Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696

Mount Hope Project — Studies of an Underground Site for Developing Peaking Capacity, Robert C. Richert, EPCE:Aug 74:265

New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19

Northfield Mountain Pumped Storage Project, S. Hale Lull and Antonio Ferreira, PO2:Nov 68:199: 6247

Northfield Mountain Pumped Storage Project, Ralph W. Gunwaldsen and Antonio Ferreira, CE:May 71: 53

Northfield Mountain Underground Power Station, Philip A. Wild and David P. McKittrick, URC:72: 287

Optimal Development of Multipurpose Hydro Projects, Phillip R. Hoffman, PO1:July 74:43:10655

Penstocks For Six Pumped Storage Projects, J. Edgar Revelle and Robert W. Mikitka, PO2:Mar 71:435: 7947

Problems with Large Underground Stations in Italy, Morando Dolcetta, URC:72:243

Pumped Storage: State-of-the-Art, Richard S. Woodruff, Chmn., PO3:July 71:675:8262

Rectangular-Bar Trashrack and Baffle Headlosses, John F. Orsborn, PO2:Nov 68:111:6223

Sizing of Pumped Storage Conduits, Raymond K. Sullivan, Jr., PO3:July 71:667:8252

Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, Yoshiaki Iwasa and Kazuya Inoue, ISSF:Aug 72: 237

Tidal Energy from the Bay of Fundy, Thomas L. Shaw and J. van den Heuvel, CE:Dec 72:40

Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259

Pumping

The Behavior of Foundations During Construction, T. William Lambe, SM1:Jan 68:93:5740

Design Conduit System by Dynamic Programming, Tung Liang, HY3:Mar 71:7988

Drainage Analysis of a Confining Formation, Leo C. Benz and Eugene J. Doering, IR73:Aug 73:225

Economic Pipe Sizing in Pumped Irrigation Systems, Roland P. Perold, IR4:Dec 74:425:10988

Graving Dock for 300,000-ton Ships, Charles F. Millard and Jay J. Hassani, CE:June 71:71

Groundwater Control by Pumping, James A. Robertson, Jr., Frank J. Dragoun and Dale W. Sall, IR73:Aug 73:179

Hardinge Bridge Span Repair, Amitabha Ghosal, Jagadish C. Ganguly, Himangsu K. Banerjee and Mahesh P. Kapoor, CO4:Dec 74:631:11034

Interior Drainage Design for Hurricane Protection Projects, Donald Van Sickle, HY2:Mar 68:455:5858

Optimum Groundwater Level Decline in Eastern Washington, Walter R. Butcher, IRS:Sept 72:291

Power Losses and Flow Topologies in Manifold, Jaime Amorocho and Johannes J. DeVries, HY1: Jan 71:81:7791

Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964

Some Factors Affecting Control of Flow in a Large Canal System, Johannes J. DeVries and Jaime Amorocho, IR73:Aug 73:329

Tools for Water-Resource Study, Julius H. Dawes, IR4:Dec 70:403:7720

Using Accelerator - Wet Process, H. N. Steenson, SUSS:July 73:104

Utilization of Sewage Effluent for Irrigation, Leonard C. Halpenny, IR73:Aug 73:575

Pumping Plants

Current Program of Seismic Safety, Elmer W. Stroppini, IMROD:Sept 73:786

Design of Underground Pumping Chamber at Lake Mead, Robert R. Rising and Gayle A. Ericson, URC:72:381

Intake System Assessment for Central Columbia River, David L. Schreiber, C. Dale Becker, James J. Fuquay and Ronald A. Chitwood, PO2:Dec 74:139:11001

Slant Drilled Lake Pump Station, Wilbur F. Gaughan and Robert B. Mitchell, EPCE:Aug 74:391

Pumping Stations

Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60

Construction and Operation of Pump Irrigation Facilities Along the Columbia and Okanogan Rivers, Boyd H. Walter, OIDS:72:161

Pump Intakes

Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264

Pumps

Analysis of Inner Plant Passage of Estuarine Biota, Allan D. Beck and Don C. Miller, EPCE:Aug 74:199

Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264

Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104

Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67

Mechanical Equipment at Edmonston Pumping Plant, Samuel Fong, CO3:Sept 74:279:10794

The Pressure Sewer: A New Alternative to Gravity Sewers, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, CE:May 74:50

Pressure Sewer Demonstration, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, EE1:Feb 74:25:10315

Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244

Raw Water Transmission System for Springfield, Mass., Walter B. Sinnott and Sheldon S.W. Yuan, TE3:Aug 71:459:8312

Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72:1117:9014

Tools for Water-Resource Study, Julius H. Dawes, IR4:Dec 70:403:7720

Two-Dimensional Analysis of Flow in Jet Pumps, Barry J. Hill, HY7:July 73:1009:9847

Vibration Analysis of Pump Discharge Lines, Jesse M. Diaz and Ravinder K. Jain, HY11:Nov 70:2279:7678

Pump Turbines

Design of Carters Pumped Storage Project, Walter W. Burdin, PO3:June 70:383:7353

Punches

Boussinesq Problems for Nonhomogeneous Solid, Mumtaz K. Kassir, EM2:Apr 72:457:8847

Purification

Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71:617:8425

Chlorine Disinfection of Low Temperature Waters, Leroy C. Reid, Jr. and Dale A. Carlson, EE2:Apr 74:339:10443

Critical Oxygen Deficit for Bank Outfall, Omar E. Rood, Jr. and Edward R. Holley, EE3:June 74:661:10585

Evaluation of Anaerobic Denitrification Processes, Daniel F. Seidel and Ronald W. Crites, SA2:Apr 70:267:7211

Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5:Oct 71:661:8419

Sewage Treatment System Odors and Air Pollutants, Ralph Stone, SA4:Aug 70:905:7456

Quadratic Equations

Analysis of Structures by Quadratic Programming, Mehdi S. Zarghamee, EM5:Oct 71:1495:8431

Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6:Dec 72:1547:9435

Graphical Method for Finding All Roots of Quadratic and Cubic Equations, J. Y. Benzies, CE:Jan 71:53

Quadratic Forms

Quadratic Loss and Scattering of Long Waves, Chiang C. Mei, Philip L-F. Liu and Arthur T. Ippen, WW3:Aug 74:217:10754

Shakedown of Rolling Wheel under Hub Loading, Subhash C. Anand and Vijay K. Garg, EM6:Dec 74:1237:11035

Qualifications

The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74:1-559

Alternate Approaches to the Education of Designers, John F. Oyler and Howard H. Hobson, CEE:Feb 74:1-390

Civil Engineering Curricula -- An Evaluation, H. Gordon Larew and John P. Bradshaw, CEE:Feb 74:1-406

Civil Engineering Education and the Bureau of Reclamation, Gilbert G. Stamm, CEE:Feb 74:1-347

Civil Engineering Education Requirements for an Electric Utility, Bruce R. Laverty and Jim O. Bass, CEE:Feb 74:1-400

Civil Engineers Need Construction Education, Walter L. Meyer and Robert I. Carr, CEE:Feb 74:1-545

A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489

Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538

Development of a Professional Construction Manager, Rolland M. Wilkening, CEE:Feb 74:1-367

Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442

Education for Leadership, C. Maxwell Stanley, CEE:Feb 74:1-312

Education of Engineering Students to become Engineers, George F. Sowers, CEE:Feb 74:1-320

Effects of Environmental Concerns on Education, Paul W. Purdom, CEE:Feb 74:1-508

Engineering Education for Public Participation, John W.N. Fead, CEE:Feb 74:1-525

Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380

Engineering Education Versus Engineering Practice, Michael N. Goodkind, CEE:Feb 74:1-452

Engineering Manpower: Supply and Demand Relationships, Robert D. Kersten and John Paul Hartman, CEE:Feb 74:1-479

Environmental Engineering Education -- An Employer's View, John E. Ball and John B. Malouf, CEE:Feb 74:1-426

Environmental Management Broadening the Base of Civil Engineering Education, William H. Matthews, CEE:Feb 74:1-518

A Growing Need for Undergraduate Education in Precast Prestressed Concrete Design, Fromy Rosenberg, CEE:Feb 74:1-382

Humanities and Social Sciences in Engineering Education, 1974, Omer Allan Gianniny, Jr., CEE:Feb 74:1-530

Issues of Environmental Engineering Education, Wesley O. Pipes, CEE:Feb 74:1-496

The Making of a Professional Civil Engineer, Gerard Roberto, Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433

NACE Paper: County Engineering Career Demands, David L. Weir, CEE:Feb 74:1-354

Needs of Engineering Education for the Future -- View of a Conuslting Engineer, William W. Moore, CEE:Feb 74:1-327

Neglected Responsibilities of Undergraduate Education, John P. Klus, CEE:Feb 74:1-566

A New Profile for Engineering -- Emergence of a Learned Profession, Cornelius Wandmacher, CEE: Feb 74:1-469

Observations on Civil Engineering Executive/ Management Needs as a Part of Civil Engineering Education, Walter G. Heintzleman, CEE:Feb 74:1-361

Professional Aspects of Public Works Management, Myron D. Calkins, CEE:Feb 74:1-339

A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552

Ten Years After: Confessions of an Overeducated Engineer, Richard M. Males, CEE:Feb 74:1-417

Ut Prosimus et Ducamus, Dan H. Pletta, CEE:Feb 74:1-459

What Should Civil Engineering Education Accomplish?, Elmer K. Timby, CEE:Feb 74:1-302

What the General Contractor Looks for in a Recent Graduate, Luther Hill, Jr., CEE:Feb 74:1-374

Quality Assurance

Effective Project Management Techniques, Robert P. Wadell, Chmn., EPMT:73, 77pp.

Quality Assurance, Ralph E. Voice, Jr., EPMT:73:59

Quality Control

An American Engineer in Israel, Irving Kett, CE: June 72:63

Caisson Construction Problems and Correction in Chicago, Clyde N. Baker, Jr. and Fazlur R. Khan, SM2:Feb 71:417:7934

Code Acceptance of Unique Building Materials and Systems, Paul K. Heilstedt, CO4:Dec 74:553:11023

Concrete Quality, Neil Jackson, TB:73:Ib-9-896

Construction of Deep Foundations, William F. Swiger, PES:73:III-207

Construct Systems, Summary Report, W. H. Arch, Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823

Control of Quality-A System, Edward A. Abdun-Nur, CO2:Oct 70:119:7576

Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1

"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082

Excavation Quality Control for the NCMC Expansion, John D. Smart and Ronald L. Friestad, RM13:72:643

High Quality Structural Masonry Based on Controlled Parameters, Sven Sahlin, TB:73:III-27-1086

Implementation of Foundation Design Criteria, Joseph L. Ehasz, Jr. and M. Temchin, SDNPF:Dec 73:99

New Developments in In-Place Testing of Shotcrete, Todd E. Rutenbeck, SUSS:July 73:246

Post-Tensioned Concrete Nuclear Structures, Glen A. Chauvin, Robert J. Small and Adolf Walser, PO3: June 70:400:7355

Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941

Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andrew Morcos and Shih-Lung Chu, SDNPF:Dec 73:263

Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, Francis J. Principe, TB:73:Ib-9-807

Quality Control and Application - New Melones Project, Leland A. Case, SUSS:July 73:235

Quality Control Criteria, Summary Report, E. James White, Robert L'Hermite and I. Gramolin, TB:73: Ib-9-901

Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749

Quality Control of Concrete in Germany, Manfred Stiller, TB:73:Ib-9-897

Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73: Ib-9-889

Shotcrete Durability and Strength - A Practical Viewpoint, Jan A. Blanck, SUSS:July 73:320

Statistical Theory in Materials Sampling, Norman J. Cohen, CO1:Mar 71:95:8005

Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87

Summary of Workshop C - Shotcrete Quality Control and Instrumentation, Paul J. Tilp, SUSS:July 73:351

Summary Report of Questionnaire on Construction Inspection, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192

System for Control of Construction Quality, Roland M. Parsons, CO1:Mar 72:21:8757

Test Method for Seismic Qualification of Equipment, Michael de Estrada, PO1:July 74:97:10656

Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851

Quarries

Coastal Sand Mining in Northern California, U.S.A., Orville T. Magoon, John C. Haugen and Robert L. Sloan, CE13:72:II-1571

Underground Chamber Crushes Rock for Dworshak Dam, Charles O. Faris, CE:June 71:75

Quarrying

Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60

Underground Chamber Crushes Rock for Dworshak Dam, Charles O. Faris, CE:June 71:75

Quays

Breakwater and Quay Wall by Horizontal Plates, Takeshi Ijima, Shigeo Ozaki, Yasuhiko Eguchi and Akira Kobayashi, 12CEC:71:1537

Questionnaires

Causes of Delay in the Construction Industry, John R. Baldwin, James M. Manthei, Harold Rothbart and Robert B. Harris, CO2:Nov 71:177:8501

CPM Use in Top 400 Construction Firms, Edward W. Davis, CO1:Mar 74:39:10395

Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849

Foreword, ASCE-IABSE Joint Committee on Tall Buildings, TB:73:C-P-229

Junior-Senior Bachelor of Technology Programs, Joseph H. Moore, CEE:Feb 74:1-221

Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55

Theme Report: Committee on Tall Building Research, Ivan M. Viest and Wai F. Chen, TB:73: C-AC11-53

Queueing Theory

Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131

Queueing at Single-Berth Shipping Terminal, Alan J. Miller, WW1:Feb 71:43:7895

Sizing Pedestrian Queueing Areas, Peter A. Fausch, MTI:May 72:113

Quick Clays

Causes of Clay Sensitivity, James K. Mitchell and William N. Houston, SM3:May 69:845:6568

Property Interrelationships in Sensitive Clays, William N. Houston and James K. Mitchell, SM4: July 69:1037:6666

Radar

Continuous Subsurface Profiling by Impulse Radar, Rexford M. Morey, EFSE:Aug 74:213

Fifty Years in Surveying-Mapping-and the Future, George D. Whitmore, SU1:Oct 69:143:6860

Status of Ground-Probing Radar and Some Recent Experience, John C. Cook, EFSE:Aug 74:175

Subsurface Video Pulse Radars, David L. Moffatt, EFSE:Aug 74:195

Radar Reflections
Status of Ground-Probing Radar and Some Recent Experience, John C. Cook, EFSE:Aug 74:175

Radar Signals
Continuous Subsurface Profiling by Impulse Radar, Rexford M. Morey, EFSE:Aug 74:213

Radial Flow
Circular Hydraulic Jump, Herman J. Koloseus and Daud Ahmad, HY1:Jan 69:409:6367
Circular Jumps, Subhash C. Mehrotra, HY8:Aug 74:1133:10758
Hydraulic Jump Within Gradually Expanding Channel, Anat Arbhabhirama and Alejandro U. Abella, HY1:Jan 71:31:7831
Radial Flow Between Porous and Solid Discs, Chyan S. Chiou and Harold L. Weissberg, TN: EM6:Dec 71:1759:8559

Radial Gates
Model and Prototype Tests of Buoyant Spillway Gates, Arthur G Strassburger and James F Sias, PO2:Oct 69:335:6863

Radial Stress
Radial Stresses in Curved Timber Beams, Ricardo O. Foschi and Selwyn P. Fox, ST10:Oct 70:1997:7582
Remote Measurement of Radial Deformations, John H. Dudley, TN: SM6:June 71:965:8162

Radiation
Frequency of Potential Evapotranspiration Rates in Great Central Plains, Norman J. Rosenberg, IR2: June 72:203:8946

Radiation Detectors
A Class of Probability Models for Littoral Drift, William R. James, 12CEC:71:831
Processing and Analysis of Radioisotopic Sand Tracer (RIST) Study Data, H. R. Brashear, E. H. Acree, F. N. Case, P. A. Turner and David B. Duane, 12CEC:71:821
Study of Topolobampo's Bay, Mexico, Entrance, Hector Lopez Gutierrez and Daniel Cervantes Castro, 12CEC:71:1151
An Underwater Survey System for Radionuclide-tagged Sediment Tracing, E. H. Acree, H. R. Brashear and F. N. Case, 12CEC:71:815

Radiation Effects
Estimation of Pavement Surface Freezing Indices, Lyle K. Moulton and James H. Schaub, TE4:Nov 69:587:6871

Radiation Shielding Materials
First Prestressed Containment Vessel in a U.S. Commercial Nuclear Power Plant, Don K. Croneberger, CE:July 69:52

Radioactive Decay
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Radial Dispersion in Ground-Water Flow, Bruce W. Hunt, EM6:Dec 74:1117:10998

Radioactive Isotopes
Measuring Subsurface Spring Flow With Radiotracers, William C. Galegar and Myron W. DeGeer, SA6:Dec 69:1097:6973
A Radiological Approach to Littoral Drift Problems, Joseph H. Bittner, CEO-II:70:725

Radioactive Wastes
Clay Slurry Sorption of Carrier-Free Radiocations, William A. Goldsmith and W. Emmett Bolch, SA5: Oct 70:1115:7611
Influence of Sediments on Transport of Solutes, Earnest F. Gloyna, HY4:July 69:1347:6699
Status of Radioactive Waste Disposal in U.S.A., Frank L. Parker, SA3:June 69:439:6597
What's New in Deep-Well Injection?, Herman Bouwer, CE:Jan 74:58

Radioactivity
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Environmental Protection for Nuclear Applications, Dade W. Moeller and Abraham S. Goldin, SA3: June 69:373:6589
Plastic Liners for CANDU Containment Structures, E. C. Smith, ST10:Oct 71:2583:8435
Status of Radioactive Waste Disposal in U.S.A., Frank L. Parker, SA3:June 69:439:6597
Transport of Dissolved Wastes in Rivers, Roger Don Shull and Earnest F. Gloyna, SA6:Dec 69:995:6948
Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561: 8990

Radioisotopes
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519

Radios
Automation For Small Irrigation Projects, Theodore E. Mann, IR3:Sept 71:501:8344

Railroad Cars
Railroad Freight Movement—Some New Concepts and Current Plans, George A. Sargent, TE2:May 74:475:10562

Railroads
BART Demonstration Program, David G. Hammond, TE4:Nov 71:627:8508
Computer Technology in New Line and Relocation Planning, R. A. Stane, TE3:Aug 70:291:7458
High-Speed Train Simulation Using Hydrodynamics, Robert A. Helfinstine and Charles Dalton, EM2: Apr 72:357:8804
Hump Tunnel in Penn Central Yard, T. F. de Capiteau, CE:May 69:59
Illinois Central Suburban Automated Revenue Collection System, Leonard A. West, TE1:Feb 71: 117:7872
Impact from Railway Loading on Steel Girder Spans, William G Byers, ST6:June 70:1093:7341
Long-Span Steel Deck Railroad Bridge, Roman Wolchuk and J. C. Bridgefarmer, CE:Apr 70:71
Need for Competent Engineering for Transit Systems, Louis T. Klauder, TN: TE3:Aug 73:9899
New Triangle in Commuter Service, Harold Wanaselja, TE3:Aug 71:501:8338
Overloads on Japan's 130 mph Railroad Structures, Tatsuo Nishiki and Shunta Shiraishi, ST6:June 70: 1017:7325
Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
Prestressed Precast Concrete Railroad Bridges, Robert M. Barton, ST12:Dec 68:2885:6302
Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833
Railroad Track Relocation Saves Time, Money, John G. Fry, CE:May 74:86
Rail Tracks for Japan's 130-mph Trains, Kentaro Matsubara, CE:Dec 69:32
Research Programs on Pipeline Crossings, William F. Quinn, TE3:Aug 70:283:7457
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
Schedule Planning and Timetable Construction for Commuter Railroad Operations, Edward K. Morlok and Hugo L. Vandersypen, TE3:Aug 73:627:9922
Steel Box Girder Makes Handsome Bridge, Jack P. Shedd, CE:May 73:67
Survey of Ground-Access Problems at Airports, Reginald J. Sutherland, Chmn., TE1:Feb 69:115: 6415
Terminal Access and the Choice of Intercity Modes, Edward A. Beimborn, TE3:Aug 69:463:6731
Transportation R&D By Private Enterprise, Robert V. Emling, TE4:Nov 70:591:7668
Transportation Research Needs in Civil Engineering, Robert F. Baker, TE3:Aug 71:541:8343

What Have Transit Demonstrations Really Shown?, Calvin O. Smith, TE2:May 71:325:8097
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52

Railroad Signals
Analytical Approach to Railway Signal Block Design, David M. Weiss and David R. Fialkoff, TE1:Feb 74:71:10369

Railroad Switches
Converting a Railroad to a First Class Suburban Rail Transit System - Under Traffic, Donald O. Eisele, NA:Mar 71:181

Railroad Terminals
Hump Tunnel in Penn Central Yard, T. F. de Capiteau, CE:May 69:59

Railroad Tracks
BART Demonstration Program, David G. Hammond, TE4:Nov 71:627:8508
No Wait Nonstop Pneumatic Tired Transit System, Vincent H. Larson, TN: TE1:Feb 72:161:8689
Rail Tracks for Japan's 130-mph Trains, Kentaro Matsubara, CE:Dec 69:32

Railroad Trains
High-Speed Train Simulation Using Hydrodynamics, Robert A. Helfinstine and Charles Dalton, EM2: Apr 72:357:8804

Railroad Tunnels
Exploration for Soft Ground Tunnels — A New Approaach, Birger Schmidt, EFSE:Aug 74:84
Flathead Railroad Tunnel Construction, Hans Sacrison, CO1:Mar 71:127:8009
Keynote Address, Albert A. Mathews, SUSS:July 73: 3

Rails
Bonded Continuous Turnout, Gregory E. Mester and Robert H. Robey, TN: ST8:Aug 74:1748:10723
Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812

Rail Transportation
Analytical Approach to Railway Signal Block Design, David M. Weiss and David R. Fialkoff, TE1:Feb 74:71:10369
BART Rail Transit System Begins Operations, CE: Nov 72:63
Illinois Central Suburban Automated Revenue Collection System, Leonard A. West, TE1:Feb 71: 117:7872
Optimizing Bus Use of Urban Highways, Herbert S. Levinson and William F. Hoey, TE2:May 74:443: 10558
Overview of Transportation Legislation, Richard E. Briggs, PP3:July 73:381:9883
Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487
"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495
"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73: 59
Railroad Freight Movement—Some New Concepts and Current Plans, George A. Sargent, TE2:May 74:475:10562
Railroad Track Relocation Saves Time, Money, John G. Fry, CE:May 74:86

Rainfall
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72: 585:9413
Consumptive Use Derived From Evaporation Pan Data, George H. Hargreaves, IR1:Mar 68:97:5863
Conversion of Maximum Rainfalls to Floods (Bureau of Reclamation Techniques), Frederick A. Bertle, IMROD:Sept 73:302
Drainage and Pollution from Beef Cattle Feedlots, Raymond C. Loehr, SA6:Dec 70:1295:7726
Effect of Unit Weight and Slope on Erosion, Richard L. Foster and L. Glen Martin, IR4:Dec 69:551: 6984
Estimation of Rainfall Erosion Index, John K.H. Ateshian, IR3:Sept 74:293:10817
Estimation of Washload Produced on Certain Small Watersheds, Oswald Rendon-Herrero, HY7:July 74: 835:10638
Experimental Examination of the Rational Method, John C. Schaake, Jr., John C. Geyer and John W. Knapp, HY6:Nov 67:353:5607
The Flood Management Project for Atchison, Kansas, Bernard T. Pierce, IAWM:72:209
Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72: 1773:9294
Frequency Analysis of Rainfall Intensities for Calcutta, V. Raman and M. Bandyopadhya, SA6: Dec 69:1013:6950
Generalized Rainfall-Duration-Frequency Relationships, Frederick C. Bell, HY1:Jan 69:311: 6357
Hourly Rainfall Synthesis for a Network, Delbert D. Franz, HY9:Sept 71:1349:8375
Inadvertent Weather and Precipitation Modification by Urbanization, Stanley A. Changnon, Jr., IR1: Mar 73:27:9608
Independent Comparison of Three Urban Runoff Models, David P. Heeps and Russell G. Mein, HY7:July 74:995:10685
Initial Loss for Flood Estimation and Forecasting, Ian Cordery, HY12:Dec 70:2447:7737
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9: Sept 71:1367:8373
Modification of Convective Clouds in Northern Plains, Martin R. Schock and Arnett S. Dennis, OIDS:72:373
New Water for Northern Plains, Richard A. Schleusener, IR1:Mar 70:53:7145
Predicting Irrigation Requirements of Crops, Wilfredo P. David and Edward A. Hiler, IR3:Sept 70:241: 7507
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733
Reduction of Urban Runoff Peak Flows by Ponding, Leonard Rice, IR3:Sept 71:469:8351
Reevaluating Spillway Adequacy of Existing Dams, Bob J. Buehler, IMROD:Sept 73:320
Research on Sleepers River at Danville, Vermont, Martin L. Johnson, IR1:Mar 70:67:7184
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72: 1935:9353
Synthesizing Daily Discharge From Rainfall Records, Donald O. Moore, HY5:Sept 68:1283:6119
Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7: July 73:1129:9871
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Variation in Lag Time for Natural Catchments, Arthur J. Askew, HY2:Feb 70:317:7051
Weather Modification for Alaska Fire Control, James W. Franks, OIDS:72:423
Weather Modification for Use in High Plains, Richard A. Schleusener and J. R. Miller, Jr., IR3: Sept 74:339:10816
Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9: Sept 72:1515:9187

Rainfall Intensity
Factors Affecting Floods from Small amd Large Watersheds, Yoseph Bar-Kochba and Andrew L. Simon, IRS:Sept 72:87
Frequency Analysis of Rainfall Intensities for Calcutta, V. Raman and M. Bandyopadhya, SA6: Dec 69:1013:6950

Hourly Rainfall Synthesis for a Network, Delbert D. Franz, HY9:Sept 71:1349:8375

Hydrologic Consequences of Rainfall Augmentation, Alan M. Lumb and Ray K. Linsley, HY7:July 71: 1065:8232

Rainfall Excess Model from Soil Water Flow Theory, Roger E. Smith and Donald L. Chery, Jr., HY9: Sept 73:1337:9990

Rainfall-Runoff Relationships

Conversion of Maximum Rainfalls to Floods (Bureau of Reclamation Techniques), Frederick A. Bertle, IMROD:Sept 73:302

Flood Inflation, Donald L. Milliken, IMROD:Sept 73:399

Laboratory Experiments with Surface Runoff, Ivan Muzik, HY4:Apr 74:501:10463

Reevaluating Spillway Adequacy of Existing Dams, Bob J. Buehler, IMROD:Sept 73:320

Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887

Rainfall Simulators

Hourly Rainfall Synthesis for a Network, Delbert D. Franz, HY9:Sept 71:1349:8375

Ramps

Energy Cost and Stair Design: A Preliminary Report, John A. Templer and Paul J. Corcoran, MTI:May 72:67

Human Responses to Stairways, Walkways and Ramps: Some Recent Findings, John A. Templer, BP73:Dec 73:137

Random Error

Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346

Random Processes

Elements of Random Vector Analysis, Robert M. Stark and Devendra K. Shukla, TN: EM2:Apr 73: 434:9641

Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72: 519:8961

Peak Distribution of Random Wave-Current Force, Chi C. Tung, EM5:Oct 74:873:10843

Randomness of Settlement Rate under Stochastic Load, Eduardo E. Alonso and Raymond J. Krizek, EM6:Dec 74:1211:11027

Random Vibration of Yielding Oscillator, Loren D. Lutes and Hirokazu Takemiya, EM2:Apr 74:343: 10482

Stability of Cylindrical Shells under Random Excitation, John A. Lepore and Robert A. Stoltz, EM3:June 74:531:10628

Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73: 715:9918

Random Vibration

Ambient Vibration of Two Suspension Bridges, V. R. Mc Lamore, Gary C. Hart and Ian R. Stubbs, ST10:Oct 71:2567:8454

Equivalent Linearization for Random Vibration, Loren D. Lutes, EM3:June 70:227:7333

Free Vibration of Stochastic Beam-Column, Masaru Hoshiya and Haresh C. Shah, EM4:Aug 71:1239: 8331

Maximum Structural Response to Seismic Excitations, Masanobu Shinozuka, EM5:Oct 70: 729:7620

On the Bound of First Excursion Probability, Masanobu Shinozuka and Jann-nan Yang, EM2:Apr 69:363:6499

Parametric Study of Wind Loading on Structures, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634

Random Walk

Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930

Random Walk Model for First-Passage Probability, Richard H. Toland and Cheng Y. Yang, EM3:June 71:791:8200

Rapid Transit Railways

Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174

Analytical Approach to Railway Signal Block Design, David M. Weiss and David R. Fialkoff, TE1:Feb 74:71:10369

Assessing Impact of Urban Transportation, David E. Boyce, TE3:Aug 72:645:9111

Assessing the Prospects of Current Transit Proposals, Martin Wohl, UTI:71:43

Balanced Highway-Airport Design, Henry K. Evans, TE1:Feb 69:213:6420

BART Demonstration Program, David G. Hammond, TE4:Nov 71:627:8508

BART Rail Transit System Begins Operations, CE: Nov 72:63

Bus Transit, Lester A. Hoel, CE:Mar 73:79

Chemical Grouting for Paris Rapid Transit Tunnels, Jean J. Janin and Guy F. Le Sciellour, CO1:June 70:61:7382

A Civil Engineer's Guide to EXPO 70, Shunta Shiraishi and Yuzo Matsui, CE:Mar 70:43

Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1: Feb 73:53:9518

Converting a Railroad to a First Class Suburban Rail Transit System - Under Traffic, Donald O. Eisele, NA:Mar 71:181

Cost-cutting Techniques for Rapid Transit Structures, Lev Zetlin and Richard L. Tomasetti, NA:Mar 71: 123

Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331

Design of Pedestrian Facilities for the Washington Metro, Melvin Siegel, BP73:Dec 73:420

Development of Shotcrete for Metro Construction in Washington, Kanwal S. Bawa, SUSS:July 73:33

Escalators in Rapid Transit Stations, Robert S. O'Neill, TE1:Feb 74:1:10333

Expressway Rapid Transit, George Krambles, TE4: Nov 72:1023:9388

Financing Metro, William I. Herman, TE4:Nov 70: 571:7680

Goods Movement on Urban Transit Systems, John J. Fruin, TE3:Aug 72:617:9139

Hannover Regional Complex Including Airport, Heinz P. Piper, TE2:May 69:245:6534

Impact of Rail Transit on Bus Operations, Richard H. Pratt, TE1:Feb 71:31:7881

The Legislation of Balance, Milton Pikarsky, TE3: Aug 73:483:9938

Let's Make the Needs Known so Someone Will Do Something About Them, Lawrence D. Dahms, NA: Mar 71:1

Lindenwold Line: A Model for Rail Rapid Transit, Eugene E. Dallaire, CE:Sept 70:90

Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514

The Modern Way to Operate Suburban Rail Service, Robert Schumacher, TE4:Nov 70:615:7707

The Morgantown Personal Rapid Transit Project, Bernard J. Vierling, BP73:Dec 73:483

Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502

Need for Competent Engineering for Transit Systems, Louis T. Klauder, TN: TE3:Aug 73:9899

New Concepts in Rail-Bus Interchange, Joel P. Leisch, TE1:Feb 74:103:10328

New Concepts in Urban Parking, John G. Schoon and Herbert S. Levinson, TE3:Aug 74:611:10731

New Triangle in Commuter Service, Harold Wanaselja, TE3:Aug 71:501:8338

Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382

Novel Features on Lindenwold Line, Richard E. Pinkham, TE2:May 72:367:8892

Origin, Purpose, and Status of Project, Robert A. Nelson, TE4:Nov 70:439:7655

Overall Planning of the Bay Area Rapid Transit DistrictProject, David G. Hammond, TE2:May 69:347:6548
Passenger Design Standards for Bay Area Rapid Transit Stations, Wilmot R. McCutchen, MTI:May 72:197
Philadelphia-Lindenwold High-Speed Line Surveys, Carl E. Hultin, SU1:May 71:7:8096
Planning for the Metro, Thomas B. Deen, TE3:Aug 70:349:7476
Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909
Power Supply for the BART System, J. George Thon and Martin W. McLaren, TE1:Feb 69:97:6411
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571:9960
Public Issues and ASCE, CE:June 70:59
The Remote Airport: A Study of Access Feasibility, David R. Miller, T. Keith Dellaway and William H.T. Holden, TE1:Feb 74:179:10359
Schedule Planning and Timetable Construction for Commuter Railroad Operations, Edward K. Morlok and Hugo L. Vandersypen, TE3:Aug 73:627:9922
Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942
Setting the Stage for a Tour of the Lindenwold Hispeed Line, J. William Vigrass, NA:Mar 71:193
Small Budget Rapid Transit, Louis T. Klauder, NA: Mar 71:69
Soft-Ground Tunneling Technology on the BART Project, Edward W. Peterson and Peter Frobenius, CE:Oct 71:72
Survey of Ground-Access Problems at Airports, Reginald J. Sutherland, Chmn., TE1:Feb 69:115:6415
Surveys for South Shore Rapid Transit Construction, Alfred J. Pacelli, SU1:May 71:133:8148
Systems Innovations for Urban Transportation, Robert A. Burco and Clark D. Handerson, TE2: May 71:205:8126
Towards an Optimum Solution for Underground Rapid Transit, Marc S. Caspe, TE1:Feb 69:157:6416
Transit Marketing in Chicago, George Krambles, TE2:May 71:361:8134
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
Transportation Education and Research: A Multidisciplinary Approach, C. Michael Walton and William Ronald Hudson, CEE:Feb 74:1-200
Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955
Two Means of Alleviating Rush-Hour Crowding, Charles Libove, TE4:Nov 73:845:10144
Urban Gravity-Vacuum Transit System, Lawrence K. Edwards, TE1:Feb 69:173:6423
Urban Mass Transportation Planning, Lyle G. Wermers, UP1:Mar 70:41:7128
Urban Mass Transportation: Review and Analysis, Stewart F. Taylor and Louis W. Petulla, TE2:May 70:175:7277
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56
What Have Transit Demonstrations Really Shown?, Calvin O. Smith, TE2:May 71:325:8097

Rates (Costs)
Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131

Rational Formula
Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
Volume of Storm Water Retention Basins, Chester J. Ordon, EE5:Oct 74:1165:10889

Rayleigh-Ritz Method
Finite Element Method: A Galerkin Approach, Stanley G. Hutton and Donald L. Anderson, EM5: Oct 71:1503:8448
Lowest Natural Frequency Of Clamped Parabolic Arcs, TN: ST1:Jan 72:407:8619

Rayleigh Scattering
Probabilities For Highest Wave In Hurricane, Leon Emry Borgman, WW2:May 73:185:9705

Reaches (Distance)
Reach of Waves to the Bed of the Constitutional Shelf, Richard Silvester and Geoffrey R. Mogridge, 12CEC:71:651

Reaction Kinetics
Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1: Feb 73:73:9557

Reactions (Mechanics)
Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386

Reaction Time
Cell Method for Computing Lake Circulation, James A. Liggett, HY3:Mar 70:725:7152
Nitrification Rate in Biological Processes, Ching-San Huang and Ninnian E. Hopson, EE2:Apr 74:409:10462

Reactors
Construction Of Multibarrier Containment Vessels, Delbert M. Leppke, C. Alexander and Robert S. Webb, CO1:Mar 71:53:8002

Ready Mixed Concrete
Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1: May 73:217:9741
Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, Francis J. Principe, TB:73:Ib-9-807

Reaeration
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
Predicting Reaeration Coefficients for Polluted Estuary, Gary R. Kramer, EE1:Feb 74:77:10351
Prediction Equation for Reaeration in Open-Channel Flow, Y. Lam Lau, TN: SA6:Dec 72:1063:9398
Wind Shear-Turbulence and Reaeration Coefficient, Aziz F. Eloubaidy and Erich J. Plate, HY1:Jan 72:153:8651

Real Property
Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72:823:9319

Recession Curves
Recession Flow in Surface Irrigation, I-pai Wu, IR1: Mar 72:77:8764
Surface Runoff Hydrograph Equation, Vulli L. Gupta and Syed A. Moin, HY10:Oct 74:1353:10880

Recharge
Artificial Recharge in Water Resources Management, Marvin J. Dvoracek, IR2:June 71:219:8185
Future of Ground Water in African Sahara Desert, Hammad Y. Hammad, IR4:Dec 69:563:6986

Recharge Wells
Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958
Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813
Ground Water Recharge Design for Renovating Waste Water, Herman Bouwer, SA1:Feb 70:59:7096

Reclamation
Ammonia Nitrogen Losses from Streams, Frank E. Stratton, SA6:Dec 68:1085:6282
Coordinated Operation of Central Valley and State Water Projects, Welby R. Madsen and David G. Coleman, HY10:Oct 74:1399:10887

Effect Of Cultural Practices On Water Resources, Cortland E. Young, SEA:70:77

Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901

Filtration of Chlorella Through Dune-Sand, Yair Folkman and Alberto M. Wachs, SA3:June 70:675:7332

Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50

Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47

Nitrogen Losses from Alkaline Water Impoundments, Frank E. Stratton, SA2:Apr 69:223:6495

Opportunities for Water Salvage, Lloyd E. Myers, CE:Jan 70:41

Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

"Research and Applied Technology Symposium on Mine-Land Reclamation," by Bitumenious Coal Research, Inc. (Book Review), Richard D. Zande, CE:July 74:42

Safety of Dams - Bureau of Reclamation, Donald A. Gray, HY2:Feb 74:267:10354

Some Applications of Drainage Experience, William O. Watson, IRS:Sept 72:1

Swampy Site Turned into Prize-Winner, James L. Hart, CE:June 73:82

USBR Specifications Focus on Environment, Bernard P. Bellport, CE:July 71:50

Recommendations

Lamellar Tearing of Welded Steel, CE:Dec 73:34

Records

Analysis of Wave Records By Non-Spectral Methods, Orville T. Magoon, Radford S. Hall, II and Robert L. Mosher, CEO-II:70:1089

Recreation

Biking and Hiking Through Red Tape, Margret M. Rimmer, BP73:Dec 73:9

Construction and Maintenance, Howard Gregg, BP73:Dec 73:155

Estimating Potential Bicycle Use and Public Investment, Carl E. Ohrn, BP73:Dec 73:582

Mall Planning Strategy, Don C. Miles, BP73:Dec 73:675

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827:9304

National Water Commission Report, Charles F. Luce, Ted Schad and Victor Koelzer, CE:May 73:70

Optimal Utilization of Playa Water in Irrigation, Marvin J. Dvoracek and Theodore G. Roefs, OIDS:72:597

Prospects for Bicycle Transportation, Jason C. Yu, BP73:Dec 73:645

Total Dollar Benefit of Water Pollution Control, Nelson L. Nemerow and Robert C. Faro, SA3:June 70:665:7323

Water Quality Considerations In Estuarine Development, Thomas P. Gallagher and John E. Hagan, III, CEO-II:70:229

Recreational Facilities

Auto Race Facility: Tracks for Indianapolis, Grand Prix, Dragsters-All in One, George J. Mim Mack and Karl B. Brown, CE:May 71:39

Bikeway Planning and Implementation - The Maryland Experience, Paul R. Farragut, BP73:Dec 73:288

Bikeways, Bikeway Planning and Bicycling, Keith Kingbay, BP73:Dec 73:526

Bikeways in National Capital Parks, Thomas DeHaven, BP73:Dec 73:547

California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78

A Case Study of Water Supply & Flood Plain Zoning, William R. Trautman, IAWM:72:193

Chicago Bikeway Progress Report, John N. LaPlante, BP73:Dec 73:307

Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50

Cleanup of San Diego Bay, Roy E. Dodson, CE:Mar 72:62

Competition for Recreation Water in California, Amalio Gomez and Dale A. Crane, IR3:Sept 68:295:6109

Current Perspectives in Disinfection, Bernard B. Berger, NSCD:71:1

Dade County Bikeways, Ron Tietgen, BP73:Dec 73:286

Ecological Values and Regional Planning, Ian McHarg, CE:Aug 70:40

Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046

Fish and Wildlife Values in Water Development, James T. McBroom, IAWM:72:377

Future National Parks for Pedestrians and Bicyclists, Wm. H. Claire, BP73:Dec 73:530

Gateway National Recreation Area, Jane A. Henzi, CEWAU:74:69

Instant Relief With New Stereo Image Alternator, John E. Leonarz, SU2:Sept 70:257:7564

Investing in Urban Bicycle Facilities, Richard C. Podolske, TE3:Aug 74:687:10742

Medal of Honor for City Planning -- Introduction, M. D. Morris, CEWAU:74:65

Montana Highway and Wildlife Professions Cooperate, John C. Peters, CE:Nov 70:58

Open Space Accessibility for Recreation, Lawrence D. Mann, UP2:Dec 71:207:8607

Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315

Planning for Pleasure Boating on Regional Basis, Ellsworth J. Gullidge and Frank J. Urabeck, WW3:Aug 70:583:7453

Private Enterprise Aids Public Recreation, Douglas W. Barr, IAWM:72:399

A Program For New Towns, Ira J. Bach, UP1:Apr 71:55:8059

Recreational Surfing on Hawaiian Reefs, James R. Walker, Robert Q. Palmer and Joseph K. Kukea, CE13:72:III-2597

Residential-Recreation Development, Alan T. Hill, CE:Dec 71:60

Sports Palace for 1968 Olympic Games, D. R. Fernandez, CE:Oct 69:45

A Study in Community Support: The Wheat Ridge Story, Boyd A. Kraemer, BP73:Dec 73:285

The Tempe Bikeway Study, Elizabeth A. Drake, BP73:Dec 73:297

Toronto Converts Decaying Waterfront into Parks, Jack M. Jones, CE:Sept 73:74

William Fitts Ryan Award Citation, Thomas J. Colston, CEWAU:74:67

Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054

Recreation Demand

Biking and Hiking Through Red Tape, Margret M. Rimmer, BP73:Dec 73:9

Recreation Facilities

Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718

The Bicycle Anarchy, James L. Konski, TE4:Nov 73:757:10120

Bikeway Planning/Construction - A PR Tool, John F. Graham, BP73:Dec 73:200

Chicago Experience, Joseph P. McDermott, BP73:Dec 73:172

Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058

Residential Community Features Novel Dam and Sewer, Robert B. Balter, CE:May 73:46

Rectangular Bodies

Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359

Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Reduction

Furrow Irrigation with Decreasing Inflow Rate, Radhey Lal and Amarendra C. Pandya, IR4:Dec 70:451:7748
Sequential Stochastic Optimization for Reservoir System, Thomas E. Croley, II, HY1:Jan 74:201:10263
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701

Reduction (Chemical)

Effects of Iron on Activated Sludge Treatment, John L. Carter and Ross E. McKinney, EE2:Apr 73:135:9679

Refineries

Treatment of Refinery Waste by Physicochemical Processes, Ju-Chang Huang and Michael G. Hardie, SA4:Aug 71:467:8318

Reflection

Evaporation Reduction with Reflective Covers, Keith R. Cooley and Lloyd E. Myers, IR3:Sept 73:353:9982
Reflection and Transmission for a Porous Structure, Hideo Kondo and Satoshi Toma, CE13:72:III-1847
Relations Between the Run-Up and Overtopping of Waves, Shoshichiro Nagai and Akira Takada, CE13:72:III-1975
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213
Wave Transmission Through Permeable Breakwaters, Charles K. Sollitt and Ralph H. Cross, III, CE13:72:III-1827

Refraction

Beach Changes and Wave Conditions, New Brunswick, S. Brian McCann and Edward A. Bryant, CE13:72:II-1293
Coastal Erosion in North Carolina, Leonard J. Langfelder, Donald B. Stafford and Michael Amein, WW2:May 70:531:7306
Computation of Combined Refraction-Diffraction, J. C.W. Berkhoff, CE13:72:I-471
Lateral Refraction in Proximity of Structures, Ron K.H. Adler and Haim B. Papo, SU1:Oct 69:93:6846
A Method of Numerical Analysis of Wave Propagation -- Application to Wave Diffraction and Refraction, Yoshiyuki Ito and Katsutoshi Tanimoto, CE13:72:I-503
Refraction Computations for Practical Applications, Ove Skovgaard and Jens Aage Bertelsen, WAVES:Sept 74:761
Refraction de la Houle avec Diffraction Moderee, Francis Biesel, CE13:72:I-491
Refraction of Continuous Ocean Wave Spectra, Thorbjorn Karlsson, WW4:Nov 69:437:6881
Refraction of Water Waves, Jurjen A. Battjes, WW4:Nov 68:437:6206
Reliability of Refraction in Polar Astronavigation, Gerald W. Johnson and James L. Clapp, SU2:Nov 71:165:8502
Tsunami Refraction Diagrams by Digital Computer, Garbis H. Keulegan and John Harrison, WW2:May 70:219:7261
Wave Reflection and Transmission for Pile Arrays, Brian J. Van Weele and John B. Herbich, CE13:72:III-1935
Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, Joseph M. Colonell, Stewart C. Farrell and Victor Goldsmith, HYB:Aug 73:131
Wave Refraction and Littoral Transport Computation, Theodor R. Mogel and Robert L. Street, WAVES:Sept 74:790
Wave Refraction Theory in a Convergence Zone, Robert W. Whalin, CE13:72:I-451

Refrigerating Machinery

Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, Sital Darayanani, TB:73:Ia-2-319

Refrigeration

Superconducting Levitation of High Speed Vehicles, Vincent D. Arp, Alan F. Clark and Thomas M. Glynn, TE4:Nov 73:873:10163

Refuse

Decentralized Solid Waste Collection Facilities, Robert M. Clark and Billy P. Helms, SA5:Oct 70:1035:7594
Efficiency of Refuse Collection Crews, Jimmie E. Quon, Robert R. Martens and Masaru Tanaka, SA2:Apr 70:437:7232
The Federal Solid Wastes Disposal Program, Richard D. Vaughan, CE:Feb 69:69
Leaching of Pollutants From Refuse Beds, Syed R. Qasim and Jerry C. Burchinal, SA1:Feb 70:49:7078
Locational Models for Solid Waste Management, Billy P. Helms and Robert M. Clark, UP1:Apr 71:1:8061
Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437
Sample Weights in Solid Waste Composition Studies, Albert J. Klee and Dennis Carruth, SA4:Aug 70:945:7469
Sanitary Landfills: The Latest Thinking, CE:Mar 73:69
Simulation Model of Urban Refuse Collection, Marcus M. Truitt, Jon C. Liebman and Cornelius W. Kruse, SA2:Apr 69:289:6508
St. Louis Power Plant to Burn City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Jan 71:56

Refuse Disposal

Aerobic and Anaerobic Landfill Stabilization Process, Ralph Stone and Rishab K. Gupta, SA6:Dec 70:1399:7766
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
Chicago's Northwest Incinerator, Milton Pikarsky, CE:Sept 71:55
Computerized Residential Refuse Districting, Geoffrey N. Berlin, UP2:Nov 74:173:10916
Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104
Economical Refuse Truck Size Determination, Richard P. Cardile and Francis H. Verhoff, EE3:June 74:679:10612
Efficiency of Refuse Collection Crews, Jimmie E. Quon, Robert R. Martens and Masaru Tanaka, SA2:Apr 70:437:7232
The Federal Solid Wastes Disposal Program, Richard D. Vaughan, CE:Feb 69:69
Financing Municipal Solid Waste Management Systems, Robert M. Clark and Richard O. Toftner, SA4:Aug 70:885:7449
Fleet Selection for Solid Waste Collection Systems, Robert M. Clark and Billy P. Helms, SA1:Feb 72:71:8720
Locational Models for Solid Waste Management, Billy P. Helms and Robert M. Clark, UP1:Apr 71:1:8061
Location Models: Solid Waste Collection Example, David H. Marks and Jon C. Liebman, UP1:Apr 71:15:8027
Management of Solid Waste-The Utility Concept, Robert M. Clark, Richard O. Toftner and Thomas W. Bendixen, SA1:Feb 71:33:7875
Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253
Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, SA6:Dec 70:1387:7769
Optimal Routing of Refuse Collection Vehicles, Richard M. Bodner, E. Alan Cassell and J. Peter Andros, SA4:Aug 70:893:7451
Processing and Recovery of Municipal Solid Waste, Robert F. Testin and Neil L. Drobny, SA3:June 70:699:7345

Recycling Wastes for Structural Application, Seymour A. Bortz and Murray A. Schwartz, EM2: Apr 73:249:9648

Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437

Residue Characterizations, Robert J. Schoenberger and Paul W. Purdom, SA3:June 69:387:6590

Routing for Public Service Vehicles, David H. Marks and Robert Stricker, UP2:Dec 71:165:8573

Sample Weights in Solid Waste Composition Studies, Albert J. Klee and Dennis Carruth, SA4:Aug 70: 945:7469

Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280

Simulation Model of Refuse Collection Policies, Jimmie E. Quon, Masaru Tanaka and Stephen J. Wersan, SA3:June 69:575:6626

Solid Waste Management: Equity Trade-Off Models, Louis A. Fuertes, James F. Hudson and David H. Marks, UP2:Nov 74:155:10913

Transportation Model Applied to Landfill Design, Robert B. Conrad and E. Kenneth Hoffman, EE3: June 74:549:10575

Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561: 8990

Regime

Indeterminate Hydraulics of Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 70:2309:7696

Regional Analysis

Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885

Regional Planning

Access to Airports: Basic Policy Development Issues, Robert F. Baker, Chmn., TE3:Aug 69:521:6748

Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960

Behavior Setting, Synormorphy, and Environmental Design, Paul V. Gump and Julius Marek, ABS:71: 61

Citizens help plan Ottawa freeway, CE:July 74:60

Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73: 69:9599

Civil Engineering and Urban Systems, George L. Peterson, Robert S. Gemmell and Richard D. Worrall, UP1:Apr 69:1:6501

Comprehensive Public Water Supply Planning, Anthony Pavone, SA5:Oct 71:745:8450

Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403

Demand Model for Intercity Multimode Travel, Jason C. Yu, TE2:May 70:203:7282

Design Concept for Assigning Urban Space, Richard W. Cockfield and Virginia K. Handa, UP2:Dec 71: 191:8582

A Draft ASCE Statement on the Role of the Civil Engineer in the Planning and Development of New Communities in the United States Urbanization and Settlement, CE:June 73:62

Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673

Ecological Values and Regional Planning, Ian McHarg, CE:Aug 70:40

Effects of Urbanization on Water Quality, Robert P. Shubinski and Gerald F. Tierney, UT73:May 73: 179

Environmental Concerns and the Controversial Project, Elmer B. Isaak, UT73:May 73:299

Environment, Power, and Impact Assessment — The Politics of Information, Michael D. Bradley, EPCE: Aug 74:653

Evaluating Regional Plans and Community Impacts, Joseph L. Schofer and Darwin G. Stuart, UP1:Mar 74:93:10412

Evaluation System for Multiple Objective Planning, Charles F. Lemon, IRS:Sept 72:371

Expressway Rapid Transit, George Krambles, TE4: Nov 72:1023:9388

Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970

Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885

Framework Plan for Ohio Basin Navigation to 2020, Theodore A. Kent, WW3:Aug 70:665:7473

Freeway Planning: Advance Acquisition of Rights-Of-Way, CE:Nov 70:62

Future National Parks for Pedestrians and Bicyclists, Wm. H. Claire, BP73:Dec 73:530

Gateway National Recreation Area, Jane A. Henzi, CEWAU:74:69

General Financial Programs for Regional and Large Wastewater Systems, Edwin A. Wells and Jack H. McMinn, CWFE:Mar 71:147

Hannover Regional Complex Including Airport, Heinz P. Piper, TE2:May 69:245:6534

Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906

Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132

Information Utilization in Project Planning, Donald E. Kawal, CO2:Nov 71:227:8505

Instant Relief With New Stereo Image Alternator, John E. Leonarz, SU2:Sept 70:257:7564

Instruction in Urban Planning for Civil Engineers, Peter S. Parsonson, UP1:Mar 70:23:7127

Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662

Integrating the Planning and Management of Metropolitan Water Resources into a Regional Context, Alexander B. Bigler, UWRM:71:81

Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742

Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880

Land Use Planning, Henry L. Newman, ASC73:Mar 73:87

Land Use Plans: Preparing One, Legislation; How to Prepare a Plan, CE:Aug 74:51

Master Planning Methodology for Urban Drainage, Harold F. Bishop, HY1:Jan 74:189:10290

Multiobjective Planning for Environmental Quality, George H. Wallen, IRS:Sept 72:359

Nature of and Need for Interdisciplinary Attacks on Problems of Urban Water Management, J. Ernest Flack, UWRM:71:106

New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93: 8981

New York City Convention and Exhibition Center, Thomas F. Galvin, CEWAU:74:211

New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60

Opportunities in Changing Federal System, Larry Rice, UP1:Mar 74:73:10423

Planning Airports System in Paris Area, Jacques V. Block, TE2:May 69:253:6535

Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173

Planning for Satellite Airports, Walter Gelerman and Richard de Neufville, TE3:Aug 73:537:9951

Planning Standards for Storm Drainage, Myron D. Calkins, UP1:Mar 70:53:7133

Principles and Standards for Water and Land Resources Planning, W. Don Maughn, PP3:July 72: 311:9059

Principles and Standards -- Water and Land Planning, Gary D. Cobb, IRS:Sept 72:399

A Program For New Towns, Ira J. Bach, UP1:Apr 71:55:8059

Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087

Reexamination of Transportation Planning, Raymond H. Ellis, TE2:May 73:371:9752

Regional-Local Conflicts in Transportation Planning, Harvey R. Joyner, TE3:Aug 72:515:9136

Regional Planning Sewerage Systems, John D. Parkhurst, CWFE:Mar 71:337

Regional Waste Water System, Charles B. Kaiser, Jr., CWFE:Mar 71:57
Regional Water Resources Planning: A State View, Guy J. Kelnhofer, Jr., UWRM:71:111
Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
San Francisco Bay Balancing of Development and Conservation Proposed, E. Jack Schoop, CE:May 69:54
The San Francisco Bay-Delta Water Quality Control Program, J. E. Stann and J. R. Ringwood, CE:June 69:74
San Francisco BCDC Revisited, E. Jack Schoop, CE: Apr 73:71
Selected Approaches to Environmental Impact Evaluation of Regional Alternatives, Salvatore J. Bellomo and Sally D. Liff, UT73:May 73:273
Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750
Some Applications of Drainage Experience, William O. Watson, IRS:Sept 72:1
South Florida Training Runway and Everglades National Park, H. C. Lamberton, Jr., CE:Apr 70:53
State of the Art-Urban Transportation Systems, Donald O. Eisele, TE3:Aug 69:439:6729
Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, J. C. Orman, Chmn., ASC73: Mar 73:107
Supercarriers Versus U.S. Harbor Dimensions, Francis P. Koisch, WW1:Feb 71:19:7904
Territorial Behavior and Preservation in Relation to Environmental Quality, Eugene P. Odum, ABS:71: 53
Transient (Dual) Zoning, Murray I. Mantell, UP1: Mar 74:1:10386
Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592
Transportation in Regional Plan for 1970's, W. John Hossack and J. Richard Hocking, TE4:Nov 70:633: 7648
Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949
Transportation Planning Myths and Realities, Raymond H. Ellis, UTI:71:243
Trends in Airport Planning, Reginald J. Sutherland, ASC73:Mar 73:193
Unique Role of Water in a Developing Economy, Clark N. Crain and David W. Greenman, IR1:Mar 69:79:6439
Urban Mass Transportation Planning, Lyle G. Wermers, UP1:Mar 70:41:7128
Urban Transportation, Murray A. Muspratt, TN: TE1:Feb 73:193:9529
Urban Water Resources—Some Planning Fundamentals, Lawrence S. Costello, UP1:Mar 74: 57:10413
Use of Systems Analysis in Water Resources Planning, William K. Johnson, HY9:Sept 72:1543: 9174
Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044
Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204
Water Resources and Regional Land-Use Plan, James C. Ringenoldus, SA6:Dec 70:1311:7735
What Have Transit Demonstrations Really Shown?, Calvin O. Smith, TE2:May 71:325:8097
Why Regional Airports, Jack D. Downey, ASC73: Mar 73:153
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054

Registration
Bicycle Registration, Glenn R. Walters, BP73:Dec 73:515
Bicycle Theft and Registration - An Overview, Arthur R. Daniel, Jr., BP73:Dec 73:492
Building a Professionally Qualified Faculty, King S. Luk and Eugene H. Kopp, EI2:Apr 74:105:10466
Closing the Last Unlicensed Gap in the Construction Process, Edward R. Fisk, CE:Sept 74:96
Conducting Civil Engineering Continuing Education, Peter C. Madsen and King S. Luk, CEE:Feb 74:1-900
Continuing Education for Civil Engineers - The UCLA-ASCE Professional Certificates, Alfred C. Ingersoll, CEE:Feb 74:1-841
Engineering Licensure Innovations, C. Allen Wortley, EI3:July 74:213:10642
Engineering Registration - Today and Tomorrow, Rex A. Tynes, PP4:Oct 73:457:10079
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Investing in Urban Bicycle Facilities, Richard C. Podolske, TE3:Aug 74:687:10742
The Making of a Professional Engineer - A Teamwork Approach (Discussion), William A. Hunt and Leland J. Walker, CEE:Feb 74:2-322
One Man's View of Registration Today, Oscar S. Bray, PP1:July 69:1:6653
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
Profile of ASCE Membership, George K. Wadlin, Jr., CE:Jan 72:39
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
Registration of Engineers, Arthur R. Watson, Chmn., PP1:June 68:1:5983
Should Renewal of PE License be Automatic?, C. Allen Wortley, CE:Jan 74:69
Specialty Registration for Engineers, Thomas deS. Furman, CE:Dec 72:32

Regression Analysis
Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
Elevation Dependent Model for Estimating Annual Runoff, Verne E. Smith, Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245
Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73: 383
A Probabilistic Approach to Determine Wave Forces on Ocean Pile Structures, G. I. Schueller and Haresh C. Shah, CE13:72:III-1683
Regression Model of Wave Forces on Ocean Outfalls, Ronald E. Johnson, WW2:May 70:289: 7275
Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4: Nov 72:799:9362
Urban Flood Frequency Characteristics, William H. Espey, Jr. and David E. Winslow, HY2:Feb 74:279: 10352
Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Regulation
"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495
Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969

Regulations
Bicycling Safety and Enforcement Programs - Why They Fail, Larry Wuellner, BP73:Dec 73:565
Concepts for Ground-Water Regulatory District, Dale Twachtmann, EI1:Jan 74:69:10272
External Blast, State-of-Art Report 7, Nathan M. Newmark, TB:73:Ib-8-661
Internal Blast, State-of-Art Report 6, Rowland J. Mainstone, TB:73:Ib-8-643
Legal Aspects of Weather Modification, Palmer King, IR3:Sept 69:403:6782

Licensing of Pedicycle Operators, Lawrence C. Wilson, BP73:Dec 73:571
Management and Regulations for the Future Basin Management Techniques, Charles V. Gibbs and Allan L. Poole, CWFE:Mar 71:65
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72:769:9355
Model Law to Improve Dam Safety, Alfred R. Golze, CE:Mar 71:53
Principles and Procedures in Flood Plain Management, James E. Goddard and John W. Weathers, HY4:July 69:1321:6696
Regulations for Pedestrian and Bicycle Safety: Why, Who, What and How to Regulate, Monroe B. Snyder, BP73:Dec 73:553
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
Should Registration Involve Politics?, Wesley E. Haynes, CE:May 71:83
State Flood-Plain Management Activities, Jack G. Johnson, HY10:Oct 70:2041:7589
States' Experiences in Dam Safety Regulations, Clifford J. Cortright, IMROD:Sept 73:86
There Oughta Be A Law!, Norman A. Clarke, BP73:Dec 73:550
Transient (Dual) Zoning, Murray I. Mantell, UP1:Mar 74:1:10386
Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
Weather Modification Regulation, Richard A. Schleusener, IR3:Sept 70:281:7537
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054

Rehabilitation

Purpose or Need for Grouting in the Treatment of Foundations, Judson P. Elston, IMROD:Sept 73:563
Rehabilitation of an Old Concrete Dam, Stanley A. de Sousa, IMROD:Sept 74:493
Rehabilitation of Dams: Retrospect and Prospect, Gilbert G. Stamm, IMROD:Sept 73:4
Rehabilitation of Irrigation System, Ray S. Bennett and Charles F. Lurvey, IRS:Sept 72:151
Shotcrete for Structural Rehabilitation, James P. Crawford, SUSS:July 73:367
Stability of Old Dams as Related to Their Foundations, Karl V. Taylor, IMROD:Sept 73:688
Summary of Session X - Shotcrete Case Histories and Specialties, Kenneth D. Hansen, SUSS:July 73:436

Reinforced Concrete

Auxiliary Reinforcement in Concrete Connections, Robert F. Mast, ST6:June 68:1485:6002
Behavior of Reinforced Concrete under Repeated Load, Boris Bresler and Vitelmo V. Bertero, ST6:June 68:1567:6013
Behavior of Square Tanks on Elastic Foundations, John Duncan Davies and John Edward Long, EM3:June 68:753:5985
Longitudinally Restrained Reinforced Concrete Beams, German R. Gurfinkel and Chester P. Siess, ST3:Mar 68:709:5859
Mechanisms of Shear Resistance of Concrete Beams, R. C. Fenwick and Thomas Paulay, ST10:Oct 68:2325:6167
Multistory Prefabricated Columns, German R. Gurfinkel, CO2:Oct 70:137:7587
Reinforced Concrete Beams Under Repeated Loads, Walter M. Ruiz and George Winter, ST6:June 69:1189:6601
Reinforced Concrete Rectangular Columns in Torsion, Alfred G. Bishara and Jong-Cherng Peir, ST12:Dec 68:2913:6305
Reinforced Concrete Response to Simulated Earthquakes, Tsuruzo Takeda, Mete A. Sozen and N. Norby Nielsen, ST2:Dec 70:2557:7759

Reinforced Plastics

Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72
Testing and Design of Advanced Composite Materials, Edward M. Lenoe, EM6:Dec 70:809:7729
World's Largest Log-Periodic Antenna, Yen H. Dong, ST9:Sept 71:2371:8400

Reinforcement

Absolute Minimum Volume Of Reinforcement In Slabs, George I.N. Rozvany and Sai R. Adidam, TN: ST5:May 72:1217:8896
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Compression Fatigue of Fiber Reinforced Concrete, Melvin R. Ramey and Patrick J. McCabe, EM2:Apr 74:139:10469
Continuous Beams With Prestressed Reinforcement, Alfred G. Bishara, George E. Mason and Filomeno N. Almeida, ST9:Sept 71:2261:8387
Cracking and Crack Control, State-of-Art Report 1, Peter Gergely, TB:73:III-24-645
Creep and Shrinkage in Reinforced Concrete Beams, Tuck Wah Leong and Robert F. Warner, ST3:Mar 70:509:7150
Current Field Research Program on Shotcrete, Harvey W. Parker, SUSS:July 73:330
Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72:1325:9417
Erickson Named Second Boase Award Winner, CE:Feb 72:56
Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081
A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
Flexural Behavior Of Ferro-Cement Panels, Wen F. Chang, D. W. Gibson and N. R. Gibbons, CEO-II:70:1023
Instrumentation to Monitor Behavior of Shotcrete Support Systems, Ronald A. Jones and J. W. Mahar, SUSS:July 73:297
Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103
Masonry Structures, Theme Report, Arnold W. Hendry, TB:73:III-27-957
Minimum Reinforcement in Clamped Square Slabs, Manhar C. Thakkar and Jawalker K. Sridhar Rao, TN: ST3:Mar 70:751:7118
Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671
Optimal Fiber-Reinforced Plate Corners, Robert E. Melchers, TN: ST7:July 73:1692:9828
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
Prestressed Beams in Torsion, Bending, and Shear, Robert L. Henry and Paul Zia, ST5:May 74:933:10560
Probabilistic Analysis of Fiber-Reinforced Concrete, Antoine E. Naaman, Fred Moavenzadeh and Frederick J. McGarry, EM2:Apr 74:397:10491
Recent Results in French Research on Reinforced Earth, Francois Schlosser and Nguyen-Thanh-Long, CO3:Sept 74:223:10800
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068
Reinforced Masonry and the Pathology of Masonry, O. Pfeffermann, TB:73:III-27-1088
Reinforcement and Stabilization of Soil by Vegetation, Donald H. Gray, TN: GT6:June 74:695:10597
Rotational Capacity of Prestressed Concrete Beams, Alfred G. Bishara and Gurcharan S. Brar, ST9:Sept 74:1883:10821
Seismic Resistance of Concrete Frames with Grade 60 Reinforcement, Norman W. Hanson, ST6:June 71:1685:8180
Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1653:8909

Structural Ground Concept and Wire Fabric Save Time and Money, Don Gehring, CE:Nov 71:50
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72: 611:8791
Torsion and Bending of Prestressed Concrete Beams, Lawrence H. Martin and Peter J. Wainwright, ST11:Nov 73:2229:10129
Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209

Reinforcement (Structures)
Auxiliary Reinforcement in Concrete Connections, Robert F. Mast, ST6:June 68:1485:6002
Collapse Loads For Continuous Slabs With Orthotropic Reinforcement, B. Vijaya Rangan, TN: ST9:Sept 72:2149:9162
Concrete Today and Tomorrow, John F. McLaughlin, W. L. Dolch, Sidney Diamond and Charles F. Scholar, CE:Aug 69:42
Crack Width Control in Reinforced Concrete Two-Way Slabs, Edward G. Nawy and Glenn S. Orenstein, ST3:Mar 70:701:7182
Ductile-Frame Tie Bars, John T. Merrifield and Albert P. Jensen, CE:Nov 71:52
Elastomeric Bridge Bearings, Charles E. Rejcha, CE: May 72:46
Repair of 7-Story Bearing Wall, Russell S Fling, CO1:July 69:39:6669
Torsion of Cylinders with Multiple Reinforcement, You-Ming Kuo and Harry D. Conway, EM2:Apr 74:221:10460

Reinforcement Schedule
Economical Design of Reinforced Concrete Slabs and Walls, Balbir S. Sandhu, CE:July 71:68

Reinforcing Materials
Concrete Beams with Prestressed Reinforcement, Alfred G. Bishara and Filomeno N. Almeida, ST7: July 70:1445:7411

Reinforcing Steels
Concrete Floor Systems, State-of-Art Report 6, Joseph P. Colaco, TB:73:III-21-237
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
Repairing Buildings Damaged in Earthquake, CE:Oct 73:62
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907

Relative Density
Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821
The Nature of Lunar Soil, W. David Carrier, III, James K. Mitchell and Arshud Mahmood, SM10: Oct 73:813:10099
Relative Density and Relative Compaction, Kenneth L. Lee and Awtar Singh, TN: SM7:July 71:1049: 8264
Standard Penetration Test and Relative Density, Klaus-Jurgen Melzer, 4PCSM:71:II37

Relaxation (Mechanics)
Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359
Nonlinear Bending of Elastic Plates of Variable Profile, Sridhara D.N. Murthy and Archibald N. Sherbourne, EM2:Apr 74:251:10478
Thermoviscoelasticity of Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM3:June 74:575: 10621

Relevance
Making Civil Engineering Relevant I, Arthur J. Fox, Jr., CEE:Feb 74:1-1
Making Civil Engineering Relevant II - Conference Keynote, Arthur J. Fox, Jr., CEE:Feb 74:2-3

Reliability
Code Specification of Safety and Serviceability, State-of-Art Report 2, Emilio Rosenblueth, TB:73:Ib-10-931
Consistent Partial Safety Factors, Niels C. Lind, ST6: June 71:1651:8166
Exact and Invariant Second-Moment Code Format, Abraham M. Hasofer and Niels C. Lind, EM1:Feb 74:111:10376
Fatigue Reliability and Design, James T.P. Yao, ST9: Sept 74:1827:10782
Formulation of Structural Reliability, James T.P. Yao and Hsiang-Yueh Yeh, ST12:Dec 69:2611:6939
Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, ST9:Sept 74:1789:10779
Numerical Approximation For Reliability Analysis, Niels C. Lind, TN: ST3:Mar 72:797:8755
Reliability Analysis of Frame Structures, John D. Stevenson and Fred Moses, ST11:Nov 70:2409: 7692
Reliability-Based Structural Design, Fred Moses and John D. Stevenson, ST2:Feb 70:221:7072
Reliability Bases of Structural Safety and Design, Alfredo H.-S. Ang and C. Allin Cornell, ST9:Sept 74:1755:10777
Reliability of Electric Power Supplies, Thorton A. Phillips, EPCE:Aug 74:7
Reliability of Redundant Cable System, Masaru Hoshiya, TN: ST11:Nov 71:2773:8490
Reliability of Structural Systems, Fred Moses, ST9: Sept 74:1813:10780
Risk-Based Evaluation of Design Criteria, Bruce R. Ellingwood and Alfredo H.-S. Ang, ST9:Sept 74: 1771:10778
Safety Analysis for Tall Buildings, State-of-Art Report 5, Fred Moses and Milik Tichy, TB:73:Ib-10-993
Safety Level Decisions, State-of-Art Report 3, Niels C. Lind and E. Basler, TB:73:Ib-10-961
Structural Design Based on Weighted Fractiles, Eero Paloheimo and Matti Hannus, ST7:July 74:1367: 10663
Structural Risk Analysis and Reliability-Based Design, Alfredo H-S. Ang, ST9:Sept 73:1891:10011
Structural Safety and Probabilistic Methods, Summary Report, Luis Esteva, TB:73:Ib-10-1043
Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541: 9864

Relocation
Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504

Remote Control
Development of Automation on Salt River Project, Henry Shipley, IR2:June 70:151:7373
Remote Nozzle Permits High Production and Safety, James S. Goff, SUSS:July 73:405
Use of Remote Controlled Spraying Nozzle, Claes Alberts, SUSS:July 73:65

Remote Sensing
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71: 321:8545
Aerospace Technical Applications in Civil Engineering, David J. Barr, Chmn., TE4:Nov 74: 959:10945
Applications of Airborne Remote Sensing Technology, Ralph W. Kiefer and James P. Scherz, SU1:Apr 70:57:7225
Area Infrared Locates Solid Ground in Mined Area, Bob Beaver and Jack Wood, CE:Mar 73:62
The Bonanza Project--Remote Sensing for Mineral and Water Resources, R. G. Reeves, L. H. Jefferis, D. H. Knepper, Jr., R. W. Marrs and G. L. Raines, ESE:Apr 70:67

Book Review: The Surveillant Science: Remote Sensing Of The Environment, Kam W. Wong, CE: Nov 73:28
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HY6:June 74:719:10584
Coastal Engineering Applications of Aerial Remote Sensing, Donald B. Stafford, CE13:72:III-2045
Depth to Ground-Water Table by Remote Sensing, Mohamed Abdel-Hady and Harlan H. Karbs, IR3: Sept 71:355:8360
Ground Truth: It's Role in Resource Assessment from Space, Donald T. Lauer and Don L. Olson, ESE:Apr 70:93
Interpretation of Multispectral Remote Sensor Data, Albert N. Williamson, SU2:Nov 74:143:10948
Mapping from Space, Alden P. Colvocoresses, SU1: May 71:125:8137
Monitoring Water Pollution by Remote Sensing, James P. Scherz, SU2:Nov 71:307:8550
Photogrammetry Aids Solution of Environment Problems, Alfred O. Quinn, SU1:July 72:87:9044
Remote Measurement of Radial Deformations, John H. Dudley, TN: SM6:June 71:965:8162
Remote Photographic Acquisition of Data, E. Gordon Kruse and Meredith L. Payne, TN: IR4: Dec 70:503:7752
Remote Sensing in the Study of Coastal Processes, Orville T. Magoon and Douglas M. Pirie, CE13:72: III-2027
Review of Techniques for Directional Wave Spectra, Narayana N. Panicker, WAVES:Sept 74:669
Thermal Discharge: A Model-Prototype Comparison, Peter D. Hindley, Russell M. Miner and Ramon F. Cayot, PO4:Dec 71:783:8580
Thermal Power Plant Environmental Studies, M. J. Doyle, Jr. and Ramon F. Cayot, CE13:72:III-2075

Removal
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901

Repairing
External Blast, Stanislaw Kajfasz, TB:73:Ib-8-717
Repairs Delaminated Bridge Decks, Carl F. Crumpton, Bruce F. McCollom and F. Wayne Stratton, CE:Nov 74:55
Spillway Foundation Damage and Repairs, Andrew Eberhardt, EFFD:Mar 74:401

Repeated Loading
Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006

Replacement Theory
Optimum Replacement Life Of Large Scrapers, Charles R. Schrader, CO1:Mar 71:37:8000
Sensitivity Analysis of Douglas Equipment Life Model, Neal B.H. Benjamin, CO1:Mar 72:61:8796

Replacing
Highlights — Foundation Exploration and Design — Locks and Dam No.26 (Replacement), Bruce H. Moore, EFFD:Mar 74:11

Reports
ASCE Salary Survey, Charles J. Stevens, Chmn., PP3:July 72:393:9025
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), Norman J. Overbeek, Chmn., PP1: Jan 72:131:8658
Composite Steel-Concrete Construction, by the Subcommittee on the State-of-the-Art Survey, of the Task Committee on Composite Construction, of the Committee on Metals, Structural Division, Ivan M. Viest, Chmn., ST5:May 74:1085:10561
Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., George Bugliarello, Chmn., HY7:July 72:1243:9072
Design Methods Based on Stiffness, Summary Report, William J. Le Messurier, TB:73:II-17-715
Design of Steel Transmission Pole Structures, Gene M. Wilhoite, ST12:Dec 74:2449:11009
Economics of Channels and Maneuvering Areas for Ships, Richard G. Waugh, Jr., WW4:Nov 71:671: 8537
Final Report of the Task Committee on Pipelines in the Oceans — Introduction, John G. Bomba, Chmn., PITO:74:1
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
Information Sources on Water Quality, Including Thermal Pollution, Fred A. Limpert, Chmn., SA3: June 72:569:8987
Interagency Approach to Watershed Problems Of Eel River, Eugene F. Serr, IR1:Mar 71:181:7983
Manual 33- Cost Control and Accounting for Civil Engineers, Task Committee on Revision of Manual 33, Committee on Standards of Practice, Professional Practice Division of ASCE, Nomer Gray, Chairman, 1971, 34 pp.
Dsc, Paperwork and Environmental Considerations, James E. McCarty, CE:Jan 72:48
Professional Papers in Sanitary Engineering, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
Proposed New ASCE Policy on Engineering Education, by Ad Hoc Subcommittee for Revision of Policy C-37, William W. Moore, Chmn., John L. Rumpf, Leo W. Ruth, James H. Schaub and Ralph H. Wallace, CEE:Feb 74:1-905
Report on the Session on Planning for Clean Water in Terms of Ecology and the Social Environment, William F. Garber, CWFE:Mar 71:35
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071
Selection of Maps for Engineering and Planning, Antonio M. Aguilar, Chmn., SU1:July 72:107:9073
Stability, Summary Report, Boris Bresler, TB:73:III-23-631
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
1973 Salary Survey, by the Committee on Employment Conditions of the Department of Professional Activities, Edward A. Bryant, Chmn., EI2:Apr 74:127:10450

Research
Access to Airports: Basic Policy Development Issues, Robert F. Baker, Chmn., TE3:Aug 69:521:6748
Analysis of BART Impacts on Bay Area Land Use, Douglass B. Lee, Jr., TE2:May 72:395:8907
Approaches and Viewpoints of State Natural Water Resources Agencies, William Whipple, Jr., UWRM: 71:100
Asphalt Paving Technology-Some Current Developments and Trends, Louis L. Monismith, CE:Aug 69:45
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
The Civil Engineer In Research, Johannes J. DeVries, CE:Jan 73:92
Commentary on Structural Standards, Summary Report, Emory L. Kemp, TB:73:III-20-139
Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72: 2329:9325
Current Field Research Program on Shotcrete, Harvey W. Parker, SUSS:July 73:330
Current Questions, Problems, and Research Needs, State-of-Art Report 2, S. Covarrubias, A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63

Current Research on Tall Buildings, CRTB:72, 126pp.
Designing Fail-Safe Structures of Highway Safety, Flory J. Tamanini, TE2:May 71:305:8150
Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
Desktop Computer Flow Routing, Thomas N. Keefer, HY7:July 74:1047:10669
Earthquake Research Needs For Nuclear Power Plants, George W. Housner, PO1:Jan 71:77:7818
Emergency Water Disinfection Practice, Surinder K. Kapoor and John T. O'Connor, NSCD:71:179
Erickson Named Second Boase Award Winner, CE: Feb 72:56
Evaluation of Anaerobic Denitrification Processes, Daniel F. Seidel and Ronald W. Crites, SA2:Apr 70:267:7211
Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71: 1269:8367
Fatigue Strength of Rolled and Welded Steel, Manfred A. Hirt, Ben T. Yen and John W. Fisher, ST7:July 71:1897:8238
The Federal Water Pollution Control Administration's Research Program on Ocean Pollution Control, Arnold B. Joseph, Fred D. Sisler, Donald J. Baumgartner and William A. Cawley, CEO-II:70:465
FHWA Traffic Research Program, Carl F. Izzard, TE2:May 71:333:8133
Flat-Vee Weirs In Alluvial Channels, William Rodney White, HY3:Mar 71:395:7989
Foreword, ASCE-IABSE Joint Committee on Tall Buildings, TB:73:C-P-229
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563: 9287
Laser Multilateration, Theodore H. Wirtanen, SU1: Oct 69:81:6843
Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103
Mathematical Model for Aggregate Plant Production, Donn E. Hancher and John A. Havers, TN: CO1: Mar 71:171:7972
Measurement of Turbulence in Water, Everett V. Richardson and Raul S. McQuivey, HY2:Mar 68: 411:5855
Multiple Linearization Flow Routing Model, Thomas N. Keefer and Raul S. McQuivey, HY7:July 74: 1031:10668
Multiservice Transport Systems for Urban Mobility, Leon Monroe Cole, UP1:Apr 71:31:8025
Oceanic Factors Pertinent to Shelf Installations, Eugene C. La Fond and Katherine G. La Fond, CEO-II:70:783
Ocean Wave Research in Southern Africa, Johan A. Zwamborn, C. van Schaik and A. Harper, 12CEC: 71:13
Opening Remarks — Subsurface Exploration for Heavy Construction, Steven I. Majtenyi, EFSE:Aug 74:8
Outline of Research Requirements for Construction, W. F. Burkart, CO2:Oct 68:233:6189
Physico-Chemical Factors in Erosion of Cohesive Soils, Arunachalan Sargunam, Patrick Reley, Kandiah Arulanandan and Ray B. Krone, TN: HY3:Mar 73:555:9609
Polymer Shotcrete, James R. Graham, SUSS:July 73: 418
Putting Water Resources Research into Practice, Fred S. Singer, CE:June 70:47
Reinforced Concrete Beam-Column Connection, Eric F.P. Burnett and Rajendra P. Jajoo, ST9:Sept 71: 2315:8395
Research and Development Needs for Advanced Waste Treatment Process to Serve Future Needs, Francis M. Middleton and Robert L. Stenburg, CWFE:Mar 71:189
Research and Planning in Fluid Mechanics, Stephen J. Kline, HY5:May 72:765:8898
Researches on Sea-Walls, Shoshichiro Nagai, 12CEC: 71:1431
Research for the Coastal Area of the Delta Region of the Netherlands, J. J. Dronkers, 12CEC:71:1783
Research Needs, Leonard B. Dworsky, EPCE:Aug 74:467
Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956
Research Needs for Airport Terminal Planning, Richard de Neufville, Chmn., TE4:Nov 73:863: 10153
Research Needs in Air Transportation by the Committee on Research of the Aero Space Division, Jack E. Snell, Chmn., TE1:Feb 70:45: 7091
Research Needs in Civil Engineering Aspects of Power, Report of the Research Commission, Power Division, ASCE, E. Roy Tinney, Chmn., PO1:May 68:33:5935
Research Needs in Evironmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, Kay H. Jones, Chmn., EE6:Dec 73:801:10198
Research Needs in Sanitary Engineering, Jack M. Betz, Chmn., SA2:Apr 72:299:8833
Research Needs in the Civil Engineering Aspects of Power, E. Roy Tinney, Chmn., PO2:Feb 70:187: 7073
Research On Steel-Concrete Composite Beams, R. Paul Johnson, ST3:Mar 70:445:7122
Research Regarding the Interaction of Shear Walls and Frames, Constantin N. Avram, Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318
Response of Activated Sludge to Organic Transient Loadings, Carl E. Adams, Jr. and W. Wesley Eckenfelder, Jr, SA2:Apr 70:333:7205
River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1: Jan 74:1:10281
Scientific Method-a Triad, Murray I. Mantell, PP1: July 69:47:6676
Sewerage and Sewage Treatment: State-of-the-Art Abstracts, Ralph Stone, Chmn., SA4:Aug 70:991: 7477
Status of Use and Research in Surveying and Mapping, William T. Pryor, Chmn., SU2:Sept 68: 243:6122
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. Mohan Malhotra, EM2:Apr 74:305:10489
Structural Design of Masonry Buildings, Walter L. Dickey, TB:73:III-27-1057
Subsurface Explorations in the Coal Mining Industry, Alphonse C. Van Besien, EFSE:Aug 74:383
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
Summary of Workshop C - Shotcrete Quality Control and Instrumentation, Paul J. Tilp, SUSS:July 73:351
Supplement List of Needs in Research on Problems of Berthing and Mooring Ships, Basil W. Wilson, BMS:71:286
Survey of Current Structural Research, Lynn S. Beedle and Warren A. Shaw, 1970, 290 pp.
Survey of Research on Structural Connections, Geoffrey L. Kulak, TN: ST12:Dec 74:2537:10982
Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55
Ten-Year Research Program in Surveying and Mapping, Morris M. Thompson, SU2:Oct 67:9:5486
Theme Report: Committee on Tall Building Research, Ivan M. Viest and Wai F. Chen, TB:73: C-AC11-53
Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
Transit Industry Educational Interests, Frederick J. Wegmann and Edward A. Beimborn, EI4:Oct 74: 313:10863
Transportation Education and Research: A Multidisciplinary Approach, C. Michael Walton and William Ronald Hudson, CEE:Feb 74:1-200
Transportation R&D By Private Enterprise, Robert V. Emling, TE4:Nov 70:591:7668

Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
Transportation Research Needs in Civil Engineering, Robert F. Baker, TE3:Aug 71:541:8343
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
Water and Health-Are We Concerned Enough?, Walter A. Lyon, SA5:Oct 70:1147:7595
Water Management Through Irrigation and Drainage: Progress, Problems, and Opportunities, by the Committee on Research of the Irrigation and Drainage Division, Jan van Schilfgaarde, Chmn., IR2:June 74:153:10619
Welcoming Remarks at the Tall Buildings Conference, Raymond Bisplinghoff, Deputy Director, NSF, TB:73:C-31
Wind Effects on Tall Buildings -- Areas for Research, Jack E. Cermak, TB:73:Ib-7-435

Research and Development

The Civil Engineer's Role in the Power Industry, Charles F. Beck, EPCE:Aug 74:1
Identification of R&D Needs for Subsurface Site Investigations, George Brown Wallace, EFSE:Aug 74:372
Research Needs, Leonard B. Dworsky, EPCE:Aug 74:467
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332
What's Ahead in Subsurface Exploration (Closing Remarks), Madan M. Singh, EFSE:Aug 74:387

Research Management

Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722
Theme Report: Committee on Tall Building Research, Ivan M. Viest and Wai F. Chen, TB:73: C-AC11-53

Research Projects

Code Acceptance of Unique Building Materials and Systems, Paul K. Heilstedt, CO4:Dec 74:553:11023

Reservoir Design

Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50

Reservoir Evaporation

Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779

Reservoir Operation

Economic Derivation of Reservoir Operating Rules, L. Douglas James, HY5:Sept 68:1217:6111
Flood Regulation by Columbia Treaty Projects, Mark L. Nelson and David M. Rockwood, HY1:Jan 71: 143:7798
Multilake River System Operation Rules, Chin-shu Liu and Allan C. Tedrow, HY9:Sept 73:1369:10021
Multilevel Outlet Works at Four Existing Reservoirs, Garry H. Austin, Donald A. Gray and Donald G. Swain, HY6:Nov 69:1793:6877
Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058
Reservoir Operation Using Snow Survey Data, Phillip E. Farnes, HYB:Aug 73:249
River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Seepage From Shallow Reservoir, Bruce W. Hunt, HY1:Jan 73:23:9476
Sequential Deterministic Optimization in Reservoir Operation, Thomas E. Croley, II, HY3:Mar 74:443: 10426
Sequential Stochastic Optimization for Reservoir System, Thomas E. Croley, II, HY1 Jan 74:201: 10263

Reservoir Performance

Computer Models for Reservoir Regulation, Daniel P. Loucks, SA4:Aug 68:657:6075
Economic Derivation of Reservoir Operating Rules, L. Douglas James, HY5:Sept 68:1217:6111

Reservoirs

Antilon Lake Pumped Storage Project, James V. Williamson, EPCE:Aug 74:439
Aquatic Studies at Ludington Pumped Storage Project, John Z. Reynolds, Peter I. Tack and Charles R. Liston, EPCE:Aug 74:227
Area and Volume Errors in Reservoir Projects, Antonio M. Aguilar, SU2:Nov 71:287:8538
Automation For Small Irrigation Projects, Theodore E. Mann, IR3:Sept 71:501:8344
Basin Tracer Curves Interpreted by Basic Analytics, A. Adler Hirsch, SA6:Dec 69:1031:6951
Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395: 10146
Bentonite Sealing Methods Compared in the Field, Myron B. Rollins and Anthony S. Dylla, IR2:June 70:193:7379
Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
Bureau of Reclamation Examination Program, Paul K. Bock, IMROD:Sept 73:50
Chance-Constrained Model of System of Reservoirs, Guy L. Curry, James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Vito A. Vanoni, Chmn., HY12: Dec 70:2417:7781
Churchill Falls Power Facilities, D. Wermenlinger, J. G.S. Thompson and J. M. Gardiner, PO2:Mar 71: 515:7974
Computer Models for Reservoir Regulation, Daniel P. Loucks, SA4:Aug 68:657:6075
Condenser Cooling and Pumped-Storage Reservoirs, Eli Sefchovich, PO3:July 71:611:8247
Coordinated Operation of Central Valley and State Water Projects, Welby R. Madsen and David G. Coleman, HY10:Oct 74:1399:10887
Design of Carters Pumped Storage Project, Walter W. Burdin, PO3:June 70:383:7353
Design of Combined Service and Auxiliary Spillway at Auld Valley Reservoir, George F. Horowitz and Daumantas Namikas, HY10:Oct 70:1965:7615
Design Sensitivity of Pollution Control Reservoirs, George K. Young, Jr., R. W. Schrecongost and W. N. Fitch, SA5:Oct 68:829:6147
Dissolved Oxygen Variations in Stratified Lakes, David A. Bella, SA5:Oct 70:1129:7628
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
EBMUD's Programs for Inspection and Remedial Treatment of Old Dams, Walter F. Anton, IMROD:Sept 73:829
Effect of Intake Elevation and Operation on Water Temperature, Walter O. Wunderlich and Rex A. Elder, HY6:Nov 69:2081:6917
Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994
Environmental Design and Construction Response on Highway Relocations for Mountain Reservoir, Phillip L. Cole and Sydney Steinborn, CO1:Mar 74: 7:10398
Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Fish and Wildlife Values in Water Development, James T. McBroom, IAWM:72:377
Floating Breakwater for Reservoir Marinas, Kenneth Chen and Robert L. Wiegel, 12CEC:71:1647
Flood Control Release Optimization Using Methods from Calculus, William C. Hughes, HY5:May 71: 691:8117
Hydrodynamic Pressures in Stratified Reservoir, Gunaratnam Balachandran, Tharakkal E. Unny and David S. Weaver, TN: EM4:Aug 73:912:9898
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221

Influences of Sedimentation on Water Quality: An Inventory of Research Needs, Robert H. Livesey, Chmn., HY8:Aug 71:1203:8325

Invariant Imbedding and Unsteady Ground-Water Flow, Shin Chang and William Wen-Gong Yeh, HY10:Oct 74:1343:10862

Irrigation Storage Probabilities of Small Reservoir, Larry A. Kramer, IR4:Dec 74:485:10987

Issues in Water Resources Impact Assessment, Leonard Ortolano, HY1:Jan 74:173:10292

Jet-Forced Circulations in Water-Supply Reservoirs, Rodney J. Sobey and Stuart B. Savage, HY12:Dec 74:1809:11026

Land Acquistion Surveys and Maps for Reservoirs, Russell S. Dittmer, SU2:Nov 71:215:8500

Largest Butyl Rubber Lined Reservoir, Robert T. Chuck, CE:May 70:44

The Lower Mekong Development Program, Leon W. Damours, CE:July 70:58

Ludington, Mich., Pumped Storage Project, Carl F. Whitehead, CE:June 73:64

Markov Models for Flow Regulation, Moshe Gablinger and Daniel P. Loucks, HY1:Jan 70:165:7031

Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519

Mechanics of Stratified Flow Through Orifices, Joseph P. Bohan and John L. Grace, Jr., HY12:Dec 70:2401:7757

Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569

Model Law to Improve Dam Safety, Alfred R. Golze, CE:Mar 71:53

Movements in Dams Due to Reservoir Filling, Esmail S. Nobari and James M. Duncan, PES:72:I-797

Nonlinear Equation of Unsteady Ground-Water Flow, John C. Bruch, Jr., HY3:Mar 73:395:9589

Northfield Mountain Pumped Storage Project, Ralph W. Gunwaldsen and Antonio Ferreira, CE:May 71:53

On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF:Aug 72:371

Optimal Policy for Reservoir Operation, Ricardo C. Harboe, Fereidoun Mobasheri and William Wen-Gong Yeh, HY11:Nov 70:2297:7673

Optimal Reservoir Releases for Water Quality Control, Norbert A. Jaworski, Walter J. Weber, Jr. and Rolf A. Deininger, SA3:June 70:727:7361

Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089

Optimization of Multiple Reservoir System, William J. Trott and William Wen-Gong Yeh, HY10:Oct 73:1865:10065

Optimum Design of Complex Water Resource Projects, David Stephenson, HY6:June 70:1229:7320

Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, Nikolai P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Pan Evaporation and Evapotranspiration from Climatic Data, Jerald E. Christiansen, IR2:June 68:243:5988

Power and Energy Study of Hydroelectric Plants, Peri Z. Valvis and Miltos Th. Mathioudis, PO2:Mar 71:567:8003

Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5:May 73:729:9730

Present Day Evaporation Measurement Techniques, G. Earl Harbeck, Jr. and J. Stuart Meyers, HY7:July 70:1381:7388

Probabilities of Rare Floods, Leo R. Beard, IMROD:Sept 73:314

Pumped Storage: State-of-the-Art, Richard S. Woodruff, Chmn., PO3:July 71:675:8262

Reducing Pond Evaporation with Perlite Ore, Keith R. Cooley and C. Brent Cluff, IR2:June 72:255:8953

Reevaluation and Reconstruction of California Dams, Clifford J. Cortright, PO1:Jan 70:55:7008

Register of Selective Withdrawal Works in United States, Task Committee on Outlet Works, Committee on Hydraulic Structures, Ronald E. Nece, Chmn., HY9:Sept 70:1841:7533

Rehabilitation of Dams: Retrospect and Prospect, Gilbert G. Stamm, IMROD:Sept 73:4

Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35

Repair of Earthquake Damaged Underground Reservoir, Daniel J. Smith, Jr., CO3:Sept 74:449:10825

Reservoir Operation Using Snow Survey Data, Phillip E. Farnes, HYB:Aug 73:249

Reservoir Operation With Imperfect Flow Forecasts, Samuel O. Russell and William F. Caselton, HY2:Feb 71:323:7931

Reservoir Storage Evacuation Time by Integration, Edgar T. Moore, CE:Apr 71:42

Dsc, Reservoir Storage Evacuation Time by Integration, Edgar T. Moore, CE:Apr 71:42

Reservoir System Design Optimization, Richard J. Butsch, HY1:Jan 70:125:7023

Safety of Dams - Bureau of Reclamation, Donald A. Gray, HY2:Feb 74:267:10354

Seacoast Dam Separates Saltwater and Fresh, Chris C. Ziogas, CE:Feb 74:53

Sedimentation in Retarding Basins, Lamont W. Curtis, HY3:May 68:739:5951

Sedimentation of Reservoirs, I. C. dos M. Pais-Cuddou and Shri N. C. Rawel, IR3:Sept 69:415:6789

Sediment Control Methods: D. Reservoirs, Vito A. Vanoni, Chmn., HY4:Apr 73:617:9671

Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12:Dec 72:2087:9426

Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10:Oct 73:849:10053

Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, GT5:May 74:523:10553

Selective Withdrawal from Density-Stratified Reservoirs, Norman H. Brooks and Robert C.Y. Koh, HY4:July 69:1369:6702

Select Reservoir Withdrawal by Multilevel Intakes, Walter B. Benton, William J. Wall and Shelton R. McKeever, PO1:Jan 70:109:7029

Shihmen Embankment Dam in Taiwan, China, Shen C. Yuan, Paul E. Bartlett and Chuan C. Feng, IR2:June 67:1:5257

Silver Lake Reservoir Reconstruction, LeVal Lund, IMROD:Sept 73:814

Simulation Model for Flow Augmentation Costs, Armando I. Perez, John C. Schaake, Jr. and Edwin E. Pyatt, HY1:Jan 70:131:7026

Some Factors Influencing Required Reservoir Storage, Stephen J. Burges and Ray K. Linsley, HY7:July 71:977:8227

Stratification of Flow from Channel into Deep Lake, Heinz Stefan, HY7:July 70:1417:7401

Stresses in an Earth Dam due to Contruction and Reservoir Filling, Julio E. Valera and Jian C. Chen, GT74:June 74:33

Tailwater Encroachment, David N. Raffel, PO2:Oct 69:167:6798

Temperature Prediction in Stratified Reservoirs, Wayne C. Huber, Donald R.F. Harleman and Patrick J. Ryan, HY4:Apr 72:645:8839

Temperature Variations in Deep Reservoirs, Gerald T. Orlob and Lawrence G. Selna, HY2:Feb 70:391:7063

Thermal Hydraulic Study: Arkansas Cooling Reservoir, Herbert S. Riesbol, James B. Anderson, Fred H. Wend and Harlan B. Holmes, PO1:Jan 71:93:7811

Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, Yoshiaki Iwasa and Kazuya Inoue, ISSF:Aug 72:237

Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581
Timing and Sizing of Complex Water Resource Systems, Leonard Becker and William Wen-Gong Yeh, HY10:Oct 74:1457:10883
Tools for Water-Resource Study, Julius H. Dawes, IR4:Dec 70:403:7720
Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475
Unsteady Flow Simulation in Rivers and Reservoirs, Jack M. Garrison, Jean-Pierre P. Granju and James T. Price, HY5:Sept 69:1559:6771
Use of Decision Theory in Reservoir Operation, Samuel O. Russell, HY6:June 74:809:10586
Use of Runoff Forecasting in Reservoir Operations, Thomas T. Wilson, Jr. and Edib Kirdar, IR3:Sept 70:299:7541
Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433
Watershed as Semiinfinite Storage Reservoir, Vit Klemes, IR4:Dec 73:477:10213

Reservoir Silting
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, Nikolai P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Reservoir Storage
Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72:433:9219
Irrigation Storage Probabilities of Small Reservoir, Larry A. Kramer, IR4:Dec 74:485:10987
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
Some Factors Influencing Required Reservoir Storage, Stephen J. Burges and Ray K. Linsley, HY7:July 71:977:8227
Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169
Stresses in an Earth Dam due to Contruction and Reservoir Filling, Julio E. Valera and Jian C. Chen, GT74:June 74:33

Reservoir Yield
Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72:433:9219

Residences
Indoor Territoriality: An Anthropological Perspective, Donald A. Kennedy, ABS:71:37

Residual Soils
High Fills Resting on Residual Soils (in Spanish), Christian K. De Fries and Edgar Pardo Stolk, 4PCSM:71:II153
Seepage Control in the Rio Jaguari Dam and Dike, Lincoln de A. Queiroz, Hamilton G. de Oliveira, Ruy Taiji Mori and Francisco Nazario, 4PCSM:71:II293
Slides in Residual Soils From Shale and Limestone, Harold T. Whitney, George F. Sowers and B. Roger Carter, 4PCSM:71:II139
Slope Stability in Residual Soils, Don U. Deere and F. D. Patton, 4PCSM:71:187

Residual Stress
An Alternative Interpretation of the Vaiont Slide, Kwan Y. Lo, C. F. Lee and P. Gelinas, RM13:72:595
Development of Deep Hole Stress Measurement Device, E. R. Hoskins and E. H. Oshier, RM14:73:299
Inelastic Buckling of Rings with Residual Stresses, Subhash C. Anand and Alvin R. Griffith, EM5:Oct 73:927:10063
Residual Shear Strength, Peter Smart, TN: SM6:Nov 70:2181:7646
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023
Residual Stresses in Curved Laminated Wood Beams, John J. Zahn, ST12:Dec 69:2873:6977
Residual Stresses in Rock, J. E. Russel and E. R. Hoskins, RM14:73:1
Residual Stress Measurement in Tubular Members, Donald R. Sherman, ST4:Apr 69:635:6502
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755

Residues
Residue Characterizations, Robert J. Schoenberger and Paul W. Purdom, SA3:June 69:387:6590
Status of Water Disinfection with Iodine, Riley N. Kinman, A. P. Black and W. C. Thomas, Jr., 4NSCD:71:11

Resins
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901
Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, NSCD:71:453

Resistance
Analysis of Resistance Over Staggered Roughness, Hsieh W. Shen and Ruh-Ming Li, TN: HY11:Nov 73:2169:10/47
Applications, State-of-Art Report 5, Pavel J. Marek, TB:73:II-19-869
Design Method for Vertical Anchor Slabs in Sand, N. Krebs Ovesen and Helle Stromann, PES:72:I-1481
Resistance to Flow over Two-Dimensional Strip Roughness, K. G. Ranga Raju and Ramachandra J. Garde, HY3:Mar 70:815:7181

Resistance Coefficients
Computational Procedures For Flow Resistance Laws, Alan A. Smith, HY3:Mar 70:665:7142
Hydraulic Resistance of Artificial Concrete Blocks, Nobuo Shuto and Hiroshi Hashimoto, 12CEC:71:1587

Resistors
The Computer's Role in Transmission Line Design, Charles F. Beck, EC5:70:63

Resolution
Television Display of Topographic Maps, Kam W. Wong and Nick G. Yacoumelos, SU2:Nov 71:273:8531

Resonance
Abnormality Detection in Simulated Arterial Systems, Marlyn E. Clark, Giovanni F. Ayala and Samuel L. Hawkes, EM5:Oct 69:1189:6854
Design of Offshore Structures Against Resonant Response, Lawrence G. Selna and David Cho, CEO-II:70:79
Resonance in Harbors of Arbitrary Shape, Jiin-Jen Lee and Fredric Raichlen, 12CEC:71:2163
Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691
Resonance in Pressurized Piping Systems, Mohammad Hanif Chaudhry, HY9:Sept 70:1819:7525
Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708
Spectral Response of Harbor Resonator Configurations, William James, 12CEC:71:2181
Steady Free Surface Flow Over Wavy Bed, Chiang C. Mei, EM6:Dec 69:1393:6967
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134

Resonant Frequency
Hydroelectric Power Plant Trashrack Design, Lloyd E. Sell, PO1:Jan 71:115:7819

Resonators
Spectral Response of Harbor Resonator Configurations, William James, 12CEC:71:2181

Resource Allocation
Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275:9204
New Criterion for Resource Scheduling, E. M. Davies, TE4:Nov 73:741:10118
Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830
Water Management Through Irrigation and Drainage: Progress, Problems, and Opportunities, by the Committee on Research of the Irrigation and Drainage Division, Jan van Schilfgaarde, Chmn., IR2:June 74:153:10619

Resource Conservation
Boulder Creek - An Environmental Status Report, Gerard E. Mick, CO1:Mar 74:1:10389
Structure of Construction Industry in Romania, Daniel W. Halpin, Mihai Nemteanu and Ronald W. Woodhead, CO2:June 74:141:10600

Resources
How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107
Response of Viscoelastically Restrained Beam, Frank A. Moughton, ST7:July 73:1607:9869

Respiration
Oxygen Depletion Model for Cayuga Lake, J. Denis Newbold and James A. Liggett, EE1:Feb 74:41:10346

Responses
Analysis of Nonlinear Random Wave Problems, Visvaldas J. Grauzinis, WAVES:Sept 74:74
Development of Response Spectra for a Thin Shell Structure, D. R. Denton, Chung-Tung Shen and C. K. Webster, SDNPF:Dec 73:571
Dynamic Response of Airplanes in Ground Operation, Te-ming Hsueh and Joseph Penzien, TE3:Aug 74:743:10755
Dynamic Response of Steel Chinney Liners to Flue Gas Flow, J. J. Deans and J. G. Willmot, EPCE:Aug 74:47
Frequency Response of a Shipborne Wave Recorder, H. M. van Aken and E. Bouws, WAVES:Sept 74:281
Full Scale Observation of the Behavior of Moored Ships, John T. O'Brien, BMS:71:130
Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29
Incremental Response of 3-D Cable Networks, John W. Leonard, TN: EM3:June 73:621:9765
Inelastic Dynamic Behavior of Tall Buildings, James Lord, TB:73:Ib-6-291
Inelastic Structural Response to 2D Ground Motion, David A. Pecknold, EM5:Oct 74:949:10846
Influence of Closely Spaced Modes in Response Spectrum Method of Analysis, A. K. Singh, Shih-Lung Chu and Surendra Singh, SDNPF:Dec 73:479
Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267
Nonlinear Stress-Strain Formulation for Soils, Ross B. Corotis, M. Hassan Farzin and Raymond J. Krizek, GT9:Sept 74:993:10811
Response Function, State-of-Art Report 4, Theodore V. Galambos, TB:73:II-19-861
Response of Vertical Cylinder to Random Waves, John H. Nath and Donald R.F. Harleman, WW2:May 70:373:7285
Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142
Seismic Response of One Story X-Braced Frames, Enrique Bazan and Emilio Rosenblueth, TN: ST2:Feb 74:489:10341
Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140
Some Problems with the Calculation of Seismic Forces on Equipment, Asadour H. Hadjian, SDNPF:Dec 73:1
Torsional-Flexural Vibration of Multi-Story Structures, Jacob Gluck, TB:73:Ib-6-298

Responsibilities
Engineering Students Learn Social Awareness at UMR, Fred Lamar, CE:May 74:54
Envirionment and Construction Management Engineers, David A. Spivey, CO3:Sept 74:395:10804
Excelling as a Construction Contractor, Altaf Hussain, CO4:Dec 74:621:11029
Responsibilities of Practicing Engineers and Technicians and Subprofessionals (Discussion), Lester A. Heer, CEE:Feb 74:2-342
Structural Failures from the Human Side, Raymond C. Reese, STF:73:103
Structural Failures from the Human Side, Raymond C. Reese, CE:Jan 73:81

Retaining
Breakout Resistance of Objects Embedded In Ocean Bottom, Aleksandar Sedmak Vesic, CEO-II:70:137
Ocean Sediment Holding Strength Against Breakout Of Partially Imbedded Objects, Cheng L. Liu, CEO-II:70:105
The Vertical Holding Capacity of Marine Anchors In Sand, Stanley M. Bemben and Edward H. Kalajian, CEO-II:70:117

Retaining Walls
Analysis of a High Gravity Retaining Wall, Fred H. Kulhawy, GT74:June 74:159
Applications of Limit Plasticity in Soil Mechanics, W. D. Liam Finn, SM5:Sept 67:101:5424
Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568
Current Application of Limit State Philosophy -- State-of-Art Report No. 1, Andre Paduart, TB:73:III-26-859
Design Of Earth Retaining Structures For Dynamic Loads, H. Bolton Seed and Robert V. Whitman, LS:70:103
Design of Temporary Retaining Structures for the Washington Subway System, James P. Gould, PES:73:III-251
Diaphragm Wall Construction Techniques, Kevin L. Nash, CO4:Dec 74:605:11025
Dynamic Passive Earth-Pressure Problem, Ali Sabzevari and Arsalan Ghahramani, GT1:Jan 74:15:10285
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6:June 72:625:8999
Engineer's Notebook: Effect Of Point Surcharge On Retaining Walls, Fred C. Teitgen and David R. Fiedler, CE:Nov 73:82
Excavations and Deep Foundations, T. D. Dismuke, TB:73:Ia-11-1014
Finite Element Analyses of Port Allen Lock, James M. Duncan and Gerald W. Clough, SM8:Aug 71:1053:8317
Finite Element Analyses of Retaining Wall Behavior, Gerald W. Clough and James M. Duncan, SM12:Dec 71:1657:8583
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845
Foundation Failure, Jacob Feld, CE:June 73:89
Gabions Guard River Banks Against 50,000 cfs Flows, Serge Lavagnino, CE:May 74:88
Indirect Determination of In Situ Stress Ratios in Particulate Materials, Geoffrey E. Blight, EFSE:Aug 74:350
Landslides and Foundation Design, Hsai-Yang Fang, TB:73:Ia-11-1012
Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360

Lateral Pressures On Rigid Permanent Structures, James P. Gould, LS:70:219
Machine-Bored Caissons for Earth-Retaining Systems in Europe, Herbert Weinhold, CE:July 70:64
Newtown Creek Docking Facilities, George Netch, CE:June 69:64
Performance of Tied-Back Walls in Clay, Gerald W. Clough and Yuet Tsui, GT12:Dec 74:1259:11028
Probabilistic Analysis and Design of a Retained Wall, Kaare Hoeg and Ramesh P. Murarka, GT3:Mar 74:349:10436
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068
Reinforced Earth Steel Retaining Walls Used on High Steep Side Slopes in France, Henri Vidal, CE:Feb 70:72
Retaining Wall Experiment to Evaluate Soil Strain Gage, Ernest T. Selig and Jackson Ho, TN: SM6:June 71:953:8162
Retaining Wall Under Action of Accreted Backfill, Paul P. Christiano and Suradej Chuntranuluck, TN: GT4:Apr 74:471:10454
Stability of Cellular Cofferdams Against Vertical Shear, Melvin I. Esrig, SM6:Nov 70:1853:7654
Stability of Trenches Filled with Fluids, Kevin L. Nash, CO4:Dec 74:533:11006
Steel Highway Accessory Structures, Donovan S. Wolford, ST7:July 71:1991:8255
Studies on Anchored Flexible Walls in Sand, Thomas H. Hanna and Ibrahim I. Kurdi, GT10:Oct 74:1107:10854
Temporary Bulk Grain Storage Structures, Alexander M. Turitzin, ST3:Mar 69:381:6459
Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239

Retardance
Flow Resistance from Cylindrical Roughness, Soronadi Nnaji and I-pai Wu, IR1:Mar 73:15:9612

Retarders (Devices)
Railroad Freight Movement—Some New Concepts and Current Plans, George A. Sargent, TE2:May 74:475:10562

Retention Dams
Let's Take a Look at Channel Improvement, Frank P. Erichsen, IAWM:72:261

Retirement
ASCE's Involvement in Pension Concepts, Joseph S. Ward, CE:Sept 73:93
Retirement Plan Study, Arnold Olitt, PP1:Sept 70:39:7552
Retirement Starts Now, Ernest W. Fair, CE:Nov 73:77
Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341

Return Flow
Agricultural Waste Management, by the Committee on Agricultural Waste Management of the Environmental Engineering Division, Dan M. Wells, Chmn., EE1:Feb 74:1:10317
Controlling Salinity by Lining Distribution System, Wynn R. Walker, IRS:Sept 72:113
Density Induced Return-Currents in Outlet Channels, Ben P. Rigter, HY2:Feb 70:529:7086
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177
Role of Water Delivery System in Water Quality, Gaylord V. Skogerboe, IRS:Sept 72:101

Revenue
HUD Sewer Policy in Urban Renewal Areas, Francis J. Blesso, UP1:July 72:33:9035

Revenues
Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350

Reverse Osmosis
Primary Treatment Followed by Reverse Osmosis, Donald L. Feuerstein and Tom H. Forrest, CWFE:Mar 71:179

Revetments
The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60
Gabions Guard River Banks Against 50,000 cfs Flows, Serge Lavagnino, CE:May 74:88
Hydrographic Survey Techniques on Mississippi, Otis T. Welch, SU1:May 71:109:8123
Stability Tests of Interlocking Block Revetment, Jay V. Hall, Jr., WW3:Aug 68:331:6079

Reviews
Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68
New Books On Structural Analysis, CE:Nov 71:70
Professional Papers in Sanitary Engineering, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
The State Of The Art of Planning, William S. Pollard, Jr. and Daniel W. Moore, UP1:Apr 69:27:6517

Revisions
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706

Reynolds Number
Characteristics of Turbulent Boundary Shear Stress, Paul H. Blinco and Daryl B Simons, EM2:Apr 74:203:10477

Rheological Models
New Rheological Model for Soil Behavior, Fujiya Komamura and Rodney J. Huang, GT7:July 74:807:10675
Rheologic Aspects of Rock Slope Failure, C. D. Broadbent and K. C. Ko, RM13:72:573

Rheological Properties
A Dynamic Penetrometer For Investigating Sediment Properties, Robert D. Stoll, CEO-II:70:209

Rheology
Consolidation of Clay and Peat with Variable Properties, Trevor J. Poskitt, SM6:June 71:841:8178
The Effects of Temperature, Confining Pressure, Strain-Rate and Interstitial Water on the Rheological Behavior of Calcite Rocks -- Abstract, E. H. Rutter, RM14:73:753
Rheologic Aspects of Rock Slope Failure, C. D. Broadbent and K. C. Ko, RM13:72:573

Rhode Island
Main Cables of Newport Suspension Bridge, Blair Birdsall, ST12:Dec 71:2825:8606

Rhodium Alloys
Public Health Service Solid Wastes Program, Richard D. Vaughan and Ralph J. Black, SA2:Apr 69:233:6500

Ribs (Supports)
Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823

Rice
Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72:115

Right-Of-Way
Expressway Rapid Transit, George Krambles, TE4:Nov 72:1023:9388
Highway and Utility Share Corridor, John Berkowitz, CE:Nov 74:61
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
The Morgantown Personal Rapid Transit Project, Bernard J. Vierling, BP73:Dec 73:483

Philadelphia Regions' Urban Corridor Demonstration Program, Ira N. Pierce, NA:Mar 71:161
Prestressed Cryogenic Pipelines, Marvin B. Gardner, Jr., TE2:May 74:489:10559

Right of Way Acquisition
The Computer's Role in Transmission Line Design, Charles F. Beck, EC5:70:63
Double-Decking an Expressway, A. A. Trinidad, Jr., CE:Dec 69:59
Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751
Esthetics in Highway Design, Donald Van Riper, CE:Apr 72:47
Expressway Rapid Transit, George Krambles, TE4:Nov 72:1023:9388
A Highway Administrator Looks at Community Values, J. A. Legarra and T. R. Lammers, CE:Sept 69:54
Joint Use of Rights-of-Way Can Reduce Costs of Services, T. W. Mermel, CE:Mar 69:56
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
The Morgantown Personal Rapid Transit Project, Bernard J. Vierling, BP73:Dec 73:483
Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096
Prestressed Cryogenic Pipelines, Marvin B. Gardner, Jr., TE2:May 74:489:10559
Recommended Right-of-Way Practices, Harmer A. Weeden, CE:Apr 72:74
Right-of-Way Surveys, Joe A. Hicks, Jr., SU2:Sept 68:227:6121
Setting the Stage for a Tour of the Lindenwold Hi-speed Line, J. William Vigrass, NA:Mar 71:193

Rigid Frames
Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
Bounding of Frame Buckling Loads, Alfred Korn, ST8:Aug 70:1639:7452
Buckling of Trapezoidal Frames Permitted to Sway, Adel Helmy Salem, ST12:Dec 69:2621:6940
Conditioning of Structural Flexibility Matrix, Charles H. Goodspeed and Michael J. Martin, ST8:Aug 74:1677:10763
Deflections of Shallow Pier Foundations, Donald C. Slack and John N. Walker, SM4:July 70:1143:7391
Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131
Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595
Elasto-Plastic Seismic Response of Reinforced Concrete Frame, Warren R. Walpole and Robin Shepherd, ST10:Oct 69:2031:6813
Finite Element for Reinforced Concrete Frame Study, Wayne C. Kroenke, Martin J. Gutzwiller and Robert H. Lee, ST7:July 73:1371:9835
Free Vibration of Two-Dimensional Frameworks, Karl-Robert Leimbach and Donald McDonald, ST2:Feb 70:267:7082
General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776
Inelastic Analysis of Multistory Multibay Frames, Ronald J. Alvarez and Charles Birnstiel, ST11:Nov 69:2477:6922
Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062
Inelastic Response of Frames to Dynamic Loads, Donald G. Toridis and Khalilollah Khozeimeh, EM3:June 71:847:8205
Moment Redistribution in Precast Concrete Frame, Harold W. Conner, Paul H. Kaar and W. Gene Corley, ST3:Mar 70:637:7168
Optimal Design for Prescribed Buckling Loads, Kalayya Narayana Murthy and Paul P. Christiano, ST11:Nov 74:2175:10912
Plastic Design of Coupled Frame-Shear Wall Structures, Peter F. Adams and James G. MacGregor, ST9:Sept 70:1861:7505
Rapid Design of Tapered Rigid Frames, Duane S. Ellifritt, CE:July 72:45
Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128
Stability Analysis of Frameworks by Matrix Methods, Ottar P. Halldorsson and Chu-Kia Wang, ST7:July 68:1745:6032
Stability of Braced and Unbraced Frames, James H. Davison and Peter F. Adams, ST2:Feb 74:319:10371
Stability of Unbraced Single-Bay Multistory Frames, Adel Helmy Salem, ST2:Feb 73:223:9552
Stiffness Center Method, Hayrettin Kardestuncer, ST7:July 74:1421:10673
Tests on Steel-Frame, Shear-Wall Structures, Sauren N.G. Majumdar and Peter F. Adams, ST4:Apr 71:1097:8031
Theory of Nonlinear Elastic Structures, Graham H. Powell, ST12:Dec 69:2687:6943
Ultimate Load Tests on Braced Multistory Frames, Joseph A. Yura and Le-Wu Lu, ST10:Oct 69:2243:6840
Ultimate Strength of Multistory Steel Rigid Frames, Sviatoslav Liapunov, ST8:Aug 74:1643:10750

Rigidity
A Criterion for Vegetation Stiffness, Nicholas Kouwen and A. Harrington, IR73:Aug 73:273
Flexural Rigidity of Concrete Column Sectione, Ian C. Medland and Donald A. Taylor, ST2:Feb 71:573:7933
Full-Range Analysis of Concrete Frames, Angel L. Lazaro, III and Rowland Richards, Jr., ST8:Aug 73:1761:9934
Loadings on Buildings, State-of-Art Report 2A, G. R. Mitchell, TB:73:Ib-5-19
Pressure Buckling of Ring Encased in Cavity, James A. Cheney, EM2:Apr 71:333:8024
Settlement of a Large Mat on Sand, Joseph A. Fischer, James T. Dette and Harcharan Singh, PES:72:I-997

Rigid Pavements
Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE1:Feb 72:37:8699
Analysis of Symmetrically Loaded Slab on Elastic Solid, Yang H. Huang, TN: TE2:May 74:537:10511
Effect of Openings on Stresses in Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE2:May 73:255:9721
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
Making Highways Skid-proof, John L. Beaton, CE:Mar 71:42
Pavement Joint Seals, Kneeland A. Godfrey, Jr., CE:Mar 72:42
Prismatic Solid Analysis of Pavement Structures, Raman Pichumani and John E. Crawford, GT74:June 74:303
Rapid Concrete Pavement Replaced in 1-1/2 Hours, Jens E. Simonsen, CE:Apr 74:62
Warping Stresses In Slabs On Reissner Foundation, Annapareddy Siva Reddy and Mysore R. Pranesh, TE3:Aug 71:511:8332
Wearability of PC Concrete Pavement Finishes, Alvin H. Meyer, TE3:Aug 74:719:10736

Rigid Pipes
Stress Distribution Around Shallow Buried Rigid Pipes, Subhash C. Anand, ST1:Jan 74:161:10258

Rings
Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101

Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800
Buckling of Rings, Steven C. Batterman and Alan I. Soler, TN: EM6:Dec 70:1291:7715
Effect of Shear and Load Behavior on Ring Stability, C. V. Smith, Jr. and G. J. Simitses, EM3:June 69:559:6607
Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806
Inelastic Buckling of Rings with Residual Stresses, Subhash C. Anand and Alvin R. Griffith, EM5:Oct 73:927:10063
Large Deflections of Viscoelastic Rings, Michael Schoenberg, EM1:Feb 69:223:6410
Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
Pressure Buckling of Ring Encased in Cavity, James A. Cheney, EM2:Apr 71:333:8024

Riparian Rights
State Water Rights Laws, William R. Walker, IR4: Dec 73:449:10217

Ripple Marks
Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72:1057:8952
Initiation of Ripples on Flat Sediment Beds, Philip B. Williams and Patrick H. Kemp, HY4:Apr 71:505:8042
Ripple and Dune Phases in a Narrowly Graded Sand, Christopher John Pratt and Kenneth V.H. Smith, HY5:May 72:859:8912
Ripple Concentration and Friction Factor, Fred F.M. Chang, HY2:Feb 70:417:7067
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441:9618

Riprap
The Influence of Breaker Type on Riprap Stability, John P. Ahrens, 12CEC:71:1557

Risk
Analysis Of Probability And Risk Equations,. Mohammad Akram Gill, TN: HY5:May 72:969:8864
The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE: Aug 72:55
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
Optimal Design for Highway Drainage Culverts, George K. Young, Jr., Mitchell R. Childrey and Roy E. Trent, HY7:July 74:971:10676
Safety Factors and Probability in Structural Design, Alfredo H.-S. Ang and Mohammad Amin, ST7:July 69:1389:6667
Selecting the Appropriate Design Flood, Gordon R. Williams, IMROD:Sept 73:348
Towards Risk-Based Design and Performance Criteria, Alfredo H.-S. Ang, TB:73:Ib-10-1007

Risks
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
On the Need of Wave Data for the Design of Rubble-Mound Breakwaters, Yvon Ouellet, WAVES:Sept 74:500
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andrew Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Risk-Based Evaluation of Design Criteria, Bruce R. Ellingwood and Alfredo H.-S. Ang, ST9:Sept 74:1771:10778
Risk Management, Thomas N. Frisby,, Sr., CE:May 74:94
Role of Specifications in Foundation Construction, Walter S. Douglas, TN: CO2:June 74:198:10570
Safety Level Decisions, State-of-Art Report 3, Niels C. Lind and E. Basler, TB:73:Ib-10-961
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47
Structural Risk Analysis and Reliability-Based Design, Alfredo H-S. Ang, ST9:Sept 73:1891:10011
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249

River Basin Development
Federal View of Interagency River Basin Planning, Burnham H. Dodge, WW3:Aug 68:305:6067
The Lower Mekong Development Program, Leon W. Damours, CE:July 70:58
Operational Hydrology Using Residuals, George K. Young, Jr. and William C. Pisano, HY4:July 68:909:6034
People, Planning, and the Political Process, Norman E. Jackson, PL1:Oct 68:29:6158
Social and Ecological Implications of Proposals for Out-of-Basin River Diversions, Bernard B. Berger, PP1:Oct 71:95:8481
State Viewpoint on River Basin Planning, Nicholas L. Barbarossa, WW2:May 68:217:5955

River Basin Planning
Comprehensive River Basin Planning, Wallace R. Christensen, PL1:Oct 68:11:6136
Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909:10208
Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192
Public Participation in Planning the St. John River, Desmond M. Connor and Keith T. Bradley, OIDS: 72:279
River Basin Management, An Interstate Approach, James F. Wright, WW3:Aug 68:287:6058
Social and Ecological Implications of Proposals for Out-of-Basin River Diversions, Bernard B. Berger, PP1:Oct 71:95:8481

River Basins
Formation of Flood Plain Lands, Walter C. Carley, HY3:May 69:981:6574
Management and Regulations for the Future Basin Management Techniques, Charles V. Gibbs and Allan L. Poole, CWFE:Mar 71:65
The Varying Source Area Of Streamflow From Upland Basins, John D. Hewlett and Wade L. Nutter, IAWM:72:65

River Beds
Bed Topography Effect on Flow in a Meander, Chin-lien Yen, HY1:Jan 70:57:7003
Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814
River Bed Transport Related to Meander Migration Rates, Charles R. Neill, TN: WW4:Nov 71:783:8491

River Closures
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
Unique Methods Solve Cofferdam Construction, E. V. Wright, CE:Nov 71:37

River Flow
Backwater Effect of Submerged Sills, Eric J. Schiller, TN: SM11:Nov 72:2059:9311
Discharge, Slope, Bed Element Relations in Streams, J. K. Virmani, Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73
Flood Regulation by Columbia Treaty Projects, Mark L. Nelson and David M. Rockwood, HY1:Jan 71:143:7798
Hydraulics of a Gravel-Core Fish Screen, Ronald E. Nece and Milo C. Bell, HYB:Aug 73:31
Mississippi River Water for Texas?, Ottoniel Arguello and Raphael G. Kazmann, IR4:Dec 73:441:10212

Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385

Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089

Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785

Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254

Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293

Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165

Systemic Variation Pattern of Annual River Flows, Frank W.F. Waitt and Ian C. O'Neill, HY3:May 69:787:6531

River Regulation

Design of Columbia River Pile Dikes, Robert O. Dodge, WW2:May 71:323:8142

Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881

Estuaries Need Freshwater, Charles R. Chapman, SEA:70:233

River Regulation as Influence on Peak Discharge, Alan F. Huggins and Martin R. Griek, HY7:July 74:901:10671

Rivers

Aeration System for Large Navigable Rivers, William Whipple, Jr. and Shaw L. Yu, SA6:Dec 71:883:8601

Analysis of Water Temperature Variations in Large River, Veerasamy Kothandaraman, SA1:Feb 71:19:7908

The Arkansas River Project, Ronald A. Antonino, CE:Dec 69:44

Autocorrelation and Spectral Analysis in Hydrology, George Quimpo, HY2:Mar 68:363:5837

Boundary Shear Stress in Rivers and Estuaries, Ronald E. Nece and Dungan J. Smith, WW2:May 70:335:7280

Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HY6:June 74:719:10584

Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72:585:9413

Colorado River-Flow Management, Robert E. Glover, Chester A. Nelson and John I. Sanders, HY11:Nov 74:1519:10934

A Comparison of Fluvial and Coastal Similitude, Bernard LeMehaute, 12CEC:71:1077

Computer Simulation of Unsteady Flows in Waterways, Robert A. Baltzer and Chintu Lai, HY4:July 68:1083:6048

Construction Over Water—Fill or Piles?, Jacob Feld and Robert C. Johnston, CE:Aug 74:54

Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538

Deposition of Sediment in Transient Flow, Fred F. M. Chang and Dennis L. Richards, HY6:June 71:837:8191

Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10:Oct 73:1659:10070

Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11:Nov 72:1969:9330

Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950

Environmental Aspects of River Basin Planning, Maynard M. Hufschmidt, HY6:Nov 67:323:5605

Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831

Field Tests of Ice Jam Prevention Techniques, Julius H. Moor and Carl H. Watson, HY6:June 71:777:8179

Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313:10241

Flat-Vee Weirs In Alluvial Channels, William Rodney White, HY3:Mar 71:395:7989

Flood Wave Modification Along Prismatic Channels, Giampaolo DiSilvio, HY5:Sept 69:1589:6777

Flow and Bed Topography in Channel Bends, Frank Engelund, HY11:Nov 74:1631:10963

Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72:589

Flow Processes in Open Channel Bends, Robert P. Apmann, HY5:May 72:795:8886

Friction Factors for Flow in Sand Bed Channels, Abu M.Z. Alam and John F. Kennedy, HY6:Nov 69:1973:6900

Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854

Hudson River as a Water Source for New York City, Robert D. Mitchell, SA3:June 68:447:5967

Hydrologic Simulation Procedures As Applied To Vegetation Management, George Fleming, SEA:70:269

Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, HY11:Nov 72:1983:9372

An Integrated Approach to the Problem of Viruses in Water, Gerald Berg, NSCD:71:339

Interaction Of A River With The Coast: Laboratory Simulation, Omar H. Shemdin, CEO-II:70:763

Interdisciplinary Planning to Meet Environmental Needs, Frederick J. Clarke, PP4:Oct 72:497:9262

Investigation of Brahmaputra River, Abdul Latif, HY5:Sept 69:1687:6793

Longitudinal Dispersion in Open Channels, Attila A. Sooky, HY4:July 69:1327:6697

Longitudinal Dispersion in Sinuous Channels, Shoju Fukuoka and William W. Aure, HY1:Jan 73:195:9479

Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866

Mechanism for Streamflow Meandering, Michael C. Quick, HY6:June 74:741:10587

Mixed Technique for Computing Surges in Channels, J. Ian Collins and Samuel N. Fersht, HY2:Mar 68:349:5831

Mixing of Columbia River and Ocean Waters in Summer, T. John Conomas and M. Grant Gross, SA5:Oct 68:979:6187

Monitors Solve Fish-kill Mystery, Bruce R. Barrett, CE:Jan 71:40

Motion of Single Particles in Alluvial Channels, Neil S. Grigg, HY12:Dec 70:2501:7770

Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72:115

National Weather Service River Forecasting System, John C. Monro and Eric A. Anderson, HY5:May 74:621:10549

Numerical Model of St. Lawrence River Estuary, David Prandle and Norman L. Crookshank, HY4:Apr 74:517:10472

Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841

Particle Size of River Sediments, George Fleming and Thomas Poodle, HY2:Feb 69:431:7068

Power Optimization for Prescribed Thermal Pollution, Amir N. Nahavandi and Michael Pappas, PO3:July 71:631:8254

Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731

Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3:Mar 72:503:8769

Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785

Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42

Reconnaissance for Dam Sites in Remote Areas, Vernon E. Swanson, SU1:Apr 70:97:7244

Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1

Research on Sleepers River at Danville, Vermont, Martin L. Johnson, IR1:Mar 70:67:7184

Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603:9191

River Channel Patterns, Shrikrishna V. Chitale, HY1:Jan 70:201:7038

River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1:Jan 74:1:10281

River Metamorphosis, Stanley A. Schumm, HY1:Jan 69:255:6352

River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806

Sampling Procedures for Coarse Fluvial Sediments, Rolf Kellerhals and Dale I. Bray, HY8:Aug 71:1165:8279

Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: A. Fluvial Sediment, Task Committee on Preparation of the Sedimentation Manual, Vito A. Vanoni, HY5:Sept 69:1477:6756

Sedimentation Engineering, Chapter II: Sediment Transportation Mechanics: Q. Genetic Classification of Valley Sediment Deposits, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:43:7815

Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Vito A. Vanoni, Chmn., HY12:Dec 71:1979:8591

Sediment Balance of Clyde Estuary, George Fleming, HY11:Nov 70:2219:7676

Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071

Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783

Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division, Vito A. Vanoni, Chmn., HY4:Apr 71:523:8076

Sediment Transport Measurements in Gravel River, Albert B. Hollingshead, HY11:Nov 71:1817:8521

Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11:Nov 73:2041:10167

Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HY8:Aug 73:293

Simple Method for Predicting Dispersion in Streams, Raul S. McQuivey and Thomas N. Keefer, EE4:Aug 74:997:10708

Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831

Stability of Floating Ice Blocks, Mehmet S. Uzuner and John F. Kennedy, HY12:Dec 72:2117:9418

Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381

Statistical Assessment of DO in Navigation Pool, Thomas A. Butts, Donald H. Schnepper and Ralph L. Evans, SA2:Apr 70:477:7235

Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358

Stochastic Analysis of Daily River Flows, Rafael G. Quimpo, HY1:Jan 68:43:5719

Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669

Surface Tension in Froude Models, W. Hall C. Maxwell and J. Richard Weggel, HY2:Mar 69:677:6482

Survey of Programs for Water-Surface Profiles, Bill S. Eichert, HY2:Feb 70:547:7098

Systemic Variation Pattern of Annual River Flows, Frank W.F. Waitt and Ian C. O'Neill, HY3:May 69:787:6531

Tailwater Encroachment, David N. Raffel, PO2:Oct 69:167:6798

Thermal Capacity of Our Nation's Waterways, D. E. Peterson, John C. Sonnichsen, Jr., S. L. Engstrom and P. M. Schrotke, PO1:May 73:193:9736

Transverse Flow in a River due to Earth's Rotation, Hans A. Neu, HY5:Sept 67:149:5434

Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295

Unsteady Flow Simulation in Rivers and Reservoirs, Jack M. Garrison, Jean-Pierre P. Granju and James T. Price, HY5:Sept 69:1559:6771

Urban Planning and Development of River Cities, Arnold H. Vollmer, UP1:Mar 70:59:7144

Valuation of Flow Augmentation Releases, Buford J. Carter, Jr., James P. Heaney and Edwin E. Pyatt, SA3:June 71:345:8203

Waterfront Renewal in Metropolitan Areas, Donald F. Wood, UP4:Dec 67:199:5673

Water Quality Models Using the Box-Jenkins Method, Peter M. Huck and Grahame J. Farquhar, EE3:June 74:733:10629

Water Resources Planning For Pascagoula Basin, Mason B. Oldham, Jr. and John W. Rushing, WW1:Feb 70:65:7060

Winter-Regime Thermal Response of Heated Streams, Poothrikka P. Paily, Enzo O. Macagno and John F. Kennedy, HY4:Apr 74:531:10479

River Systems

Flood-Control Facilities for Unique Flood Problems, Ralph F. Wong and Alfonso Robles, Jr., WW1:Feb 71:185:7894

River Training

Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881

Rivets

Large Bolted and Riveted Shingle Splices, John W. Fisher and Noriaki Yoshida, ST9:Sept 70:1903:7534

Road Construction

Economic Analysis for Highways, by Robley Winfrey (Book Review), Jeffrey M. Zupan, CE:Mar 70:96

Milwaukee Installs Concrete Median Barriers, Daniel A. Kastenholz, CE:July 73:88

Precompression Analysis for Highway Embankments, Raymond J. Krizek and Peter K. Krugman, GT74:June 74:111

Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Road Design

California Tackles Highway Noise, James D. Collins, CE:Nov 73:56

Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139

Optimal Design for Highway Drainage Culverts, George K. Young, Jr., Mitchell R. Childrey and Roy E. Trent, HY7:July 74:971:10676

Stark County, Ohio's Low Cost Road-Safety Program, CE:Nov 74:64

Truck escape lanes on mountain roads, Glenn S. Baldwin, CE:July 74:64

Roads

Asphalt Paving Technology-Some Current Developments and Trends, Louis L. Monismith, CE:Aug 69:45

Effect of Unit Weight and Slope on Erosion, Richard L. Foster and L. Glen Martin, IR4:Dec 69:551:6984

Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921

Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340

More Efficient Local Rural Road Administration, William D. Berg, TE4:Nov 74:975:10942

Optimal Selection of Flexible Pavement Components, Salim S. Hejal, Thomas R. Buick and Joseph C. Oppenlander, TE2:Feb 71:1:7877

Optimizing Traffic Flow on Existing Street Networks, Wesley La Baugh, TE2:May 71:353:8135

Pavement Design and Staging for Mayan Roads, Allen F. Lubina and Robert N. Panfill, TE4:Nov 71:651:8516
Problems of Designing Roadway Structures, William Ronald Hudson, TE2:May 69:289:6542
Property Development in Modern Communitites, Daniel B. Stauffer, CO1:Jan 68:35:5741
Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Rock (Material)
Book Review: Practical Applications of Rock Mechanics, Dewayne L. Misterek, CE:Feb 73:17

Rock Bolts
Duplication of Dilatancy in Analysis of Jointed Rocks, Richard E. Goodman and Jacques Dubois, SM4:Apr 72:399:8853
Geologic Considerations in Shotcrete Design, Edward J. Cording, SUSS:July 73:175
Instrumentation to Monitor Behavior of Shotcrete Support Systems, Ronald A. Jones and J. W. Mahar, SUSS:July 73:297
Presplitting and Rockbolts Cut Costs at Stockton Dam, Charles R. Golder, CE:Jan 70:44
Quality Control and Application - New Melones Project, Leland A. Case, SUSS:July 73:235
Remote Nozzle Permits High Production and Safety, James S. Goff, SUSS:July 73:405
Rock Engineering for Underground Caverns, Edward J. Cording, Alfred J. Hendron, Jr. and Don U. Deere, URC:72:567

Rock Crushers
Dworshak Dam Underground Crushing Chamber, Charles O. Faris, URC:72:147
Energy Required to Break Rock by Percussive Drilling, Kaarlo O. Hakalehto, RM14:73:613
Prestressed Rock Anchors and Shotcrete for Large Underground Powerhouse, Michel Buro, CE:May 70:60
A Study on a New Concept of Thermal Hard Rock Crushing, Kuppusamy Thirumalai and John B. Cheung, RM14:73:527

Rock Density
Stability of Discontinuous Rock Masses Under Polyaxial Stress Systems, Peter B. Attewell and John P. Woodman, RM13:72:665

Rock Drilling
Energy Required to Break Rock by Percussive Drilling, Kaarlo O. Hakalehto, RM14:73:613
How to Cut Underground Construction Costs, R. L. Loofbourow, CE:June 72:85
Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73:589

Rock Excavation
Blasting Mass-Concrete at Grand Coulee Dam, J. R. Granger, CE:Aug 71:28
Constructing Washington D.C.'s Metro, Ellis E. Wilhoyt, Jr., CE:Nov 74:74
Design of Rock Caverns for Hydraulic Projects, Mircea S. Vasilescu, C. P. Benziger and Robert W. Kwiatkowski, URC:72:21
Design of Underground Pumping Chamber at Lake Mead, Robert R. Rising and Gayle A. Ericson, URC:72:381
Excavation Quality Control for the NCMC Expansion, John D. Smart and Ronald L. Friestad, RM13:72:643
Important Ground Parameters in Soft Ground Tunneling, Donald E. Heuer, EFSE:Aug 74:41
Mat Foundation Spans Rubble Channels, L. Radley Squier, CE:Aug 70:61
Progressive Failure of Excavated Rock Slopes, Nicholas Barton, RM13:72:139
Rock Mechanics at Churchill Falls, Raymond P. Benson, Robert J. Conlon, Andrew H. Merritt, Paul Joli-Coeur and Don U. Deere, URC:72:407
Three-Dimensional Approach for Design of Cuts in Jointed Rock, Francois E. Heuze and Richard E. Goodman, RM13:72:397

Rockfill Dams
Performance of Muddy Run Embankment, Stanley D. Wilson and David Marano, SM4:July 68:859:6026

Rock Fills
Aguada Blanca Rockfill Dam with Metal Facing, Piero Sembenelli and Marco Fagiolo, GT1:Jan 74:31:10270
Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672
Experimental Study of Wave Transmission, Mohammed Sameh Nasser and John A. McCorquodale, WW4:Nov 74:279:10928
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
In-situ Shear Test for Rock Fills, Surendra P. Jain and Ramesh C. Gupta, GT9:Sept 74:1031:10823
An Interesting Case of Stability in a Rock Fill Slope, Carlos M. Nieble and Paulo T. Cruz, 4PCSM:71:II167
Membrane For Rockfill Triaxial Testing, Clarence K. Chan, TN: SM8:Aug 72:849:9085
Review of Shearing Strength of Rockfill, Thomas M. Leps, SM4:July 70:1159:7394
Wave Energy Dissipation in Rockfill, John A. McCorquodale, CE13:72:III-1885

Rock Foundations
European Versus United States Grouting Practices, P. Rigny, EFFD:Mar 74:37

Rock Mechanics
Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649
An Alternative Interpretation of the Vaiont Slide, Kwan Y. Lo, C. F. Lee and P. Gelinas, RM13:72:595
Analytical Study of Pressurized Elliptical Cavities, Yoginder P. Chugh and H. Reginald Hardy, Jr., RM14:73:339
An Approach to the Stability of Rock Slopes Based on the Theory of Limiting Equilibrium with a Material Exhibiting Anisotropic Shear Strength, J. E. Jennings, RM13:72:269
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
Better Specifications for Underground Work, J. Donovan Jacobs, URC:72:515
Book Review: Practical Applications of Rock Mechanics, Dewayne L. Misterek, CE:Feb 73:17
Changed Soil and Rock Conditions in Construction, George F. Sowers, CO2:Nov 71:257:8509
Characteristics of Rock Motions During Earthquakes, H. Bolton Seed, Izzat M. Idriss and Fred W. Kiefer, SM5:Sept 69:1199:6783
Coefficient of Friction of Natural Rock Surfaces, Bartlett W. Paulding, Jr., SM2:Mar 70:385:7121
Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157
Correlations of Modulus of Deformation by the Use of a Combined In-Situ Deformation Measurement and Finite-Element Method -- Abstract, Samuel S.M. Chan and Grant L. Anderson, RM14:73:757
Cumulative Sums Technique: A New Approach to Analyzing Joints in Rocks, Douglas R. Piteau and Lindsay Russell, RM13:72:1
The Deep Stress Probe -- A Tool for Stress Determination -- Abstract, J. C. Roegiers, RM14:73:755
Design of Boundary Arch Dam, Jaroslav Pospisil and Michael D. Hayes, PO1:Jan 70:73:7012
Design of Rock Caverns for Hydraulic Projects, Mircea S. Vasilescu, C. P. Benziger and Robert W. Kwiatkowski, URC:72:21

Design of Underground Pumping Chamber at Lake Mead, Robert R. Rising and Gayle A. Ericson, URC:72:381

Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555

Development and Potentials of Moire Method of Strain Analysis for Rock Testing, Kuppusamy Thirumalai and R. L. Fischer, RM13:72:727

The Development of a New Borehole Extensometer -- Abstract, Howard G. Spark, RM14:73:756

Development of Deep Hole Stress Measurement Device, E. R. Hoskins and E. H. Oshier, RM14:73:299

Development of Shotcrete for Metro Construction in Washington, Kanwal S. Bawa, SUSS:July 73:33

Discrete Element Techniques for Rock Slope Analysis, K. C. Ko, RM13:72:183

Dworshak Dam Underground Crushing Chamber, Charles O. Faris, URC:72:147

Dynamic Behavior of Rocks to Spherical Stress Waves, R. P. Swift and M. W. McKay, RM13:72:797

Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689

The Effects of Temperature, Confining Pressure, Strain-Rate and Interstitial Water on the Rheological Behavior of Calcite Rocks -- Abstract, E. H. Rutter, RM14:73:753

Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421

Energy Required to Break Rock by Percussive Drilling, Kaarlo O. Hakalehto, RM14:73:613

Engineering Geologist's Responsibilities in Dam Foundation Studies, Don U. Deere, EFFD:Mar 74:417

Engineering Properties of a Pennsylvania Shale, Gholamreza Mesri and Rocco Gibala, RM13:72:57

Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and Tor L. Brekke, RM14:73:481

An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263

Excavation Quality Control for the NCMC Expansion, John D. Smart and Ronald L. Friestad, RM13:72:643

Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731

Failure of Rock Under High Rate Tensile Loads, D. A. Shockey, C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709

Faulting Across Discontinuities in Anisotropic Rock, Fred A. Donath, RM13:72:753

Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095

Finite Element Methods for the Nonlinear and Time-Dependent Analysis of Geotechnical Problems, Chin-Yung Chang, Keshavan Nair and Ram D. Singh, GT74:June 74:269

Fracture Evaluation by the Borehole Logging Method, John I. Myung and R. W. Baltosser, RM13:72:31

Geomechanical Instrumentation in Mexico Tunnels, Derek F. Berry, URC:72:51

High Pressure Experiments on Soil and Rock, Donald J. Murphy, Jr., RM13:72:691

Hybrid Computer Analysis of Seam Extraction -- Abstract, M. P. Hardy, S. L. Crouch and Charles Fairhurst, RM14:73:749

Improved Compression Test Technique for Soft Rock, Edwin T. Brown and Louis P. Gonano, TN: GT2:Feb 74:196:10310

Influence of Loading Rate on Rock Response, Dale E. Stephenson and George E. Triandafilidis, GT2: Feb 74:101:10367

Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247

Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107

Large Scale Triaxial Tests on Rock, Madan M. Singh and Peter J. Huck, RM14:73:35

Mechanical Behavior of Rock Under Cyclic Fatigue, Bezalel C. Haimson and Chin Man Kim, RM13:72:845

Membrane For Rockfill Triaxial Testing, Clarence K. Chan, TN: SM8:Aug 72:849:9085

Methods of Performing and Interpreting In Situ Shear Tests, Michael L. Haverland and Edward J. Slebir, RM13:72:107

A Model for the Mechanics of JointedRock, Richard E. Goodman, Robert L. Taylor and Tor L. Brekke, SM3:May 68:637:5937

Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610

A Model Study on the Slope Stability Around an Open Pit, Y. S. Kim and R. R. Dimock, Jr., RM13:72:201

A Monte Carlo Approach to Seepage in Jointed Rock, William E. Kelly, RM13:72:227

Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739

New Applications of Seismic Investigations to Engineering Problems, Phillip Romig, EFSE:Aug 74:144

New Horizons in Rock Machanics, H. Reginald Hardy, Jr., Editor and Robert Stefanko, Editor, RM14:73, 785pp.

Northfield Mountain Underground Power Station, Philip A. Wild and David P. McKittrick, URC:72:287

On Model Studies for Tunnels in Jointed Rock, Richard E. Goodman, Francois E. Heuze and Gilles J. Bureau, RM14:73:441

Open Pit Mine Slope Stability: The Berkeley Pit, William G. Pariseau and Koehler Stout, RM13:72:367

Pore Fluid and Mechanical Behavior of Rock, F. H. Cornet, RM13:72:825

Powerplant Chamber Under Oroville Dam, George H. Kruse, URC:72:333

Predicted and Meausred Displacements for Tunnels, William R. Judd and William H. Perloff, URC:72:487

Problems with Large Underground Stations in Italy, Morando Dolcetta, URC:72:243

Properties and Steel Tunnel Liners, George H. Kruse, PO3:June 70:4115:7357

Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311

The Relation of Mineralogy and Microstructure to the Morphology and Trajectory of Rock Fractures Resulting from Dynamic Tensile Stress -- Abstract, S. Sriruang and B. Hamil, RM14:73:750

Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35

Residual Stresses in Rock, J. E. Russel and E. R. Hoskins, RM14:73:1

Rheologic Aspects of Rock Slope Failure, C. D. Broadbent and K. C. Ko, RM13:72:573

Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73:589

Rock Engineering for Underground Caverns, Edward J. Cording, Alfred J. Hendron, Jr. and Don U. Deere, URC:72:567

Rock Mechanics at Churchill Falls, Raymond P. Benson, Robert J. Conlon, Andrew H. Merritt, Paul Joli-Coeur and Don U. Deere, URC:72:407

Rock Mechanics Education -- A Panel Discussion, H. Douglas Dahl, K. E. Gray and Leonard Obert, RM14:73:747

Rock Mechanics Studies for Mossyrocky Arch Dam, David E. Kleiner and Richard C. Acker, PO1:Jan 71:11:7795

Rock Mechanics Studies--Mica Project, B.C., Paul Meidal and R. Kenneth Dodds, URC:72:203

Rock Property Changes Under Air Pollutant Action, D. Joseph Hagerty and C. Robert Ullrich, RM14:73:127

Rock Property Correlation, Crescent Mine, Idaho -- Abstract, E. H. Skinner, G. G. Waddell, P. C. McWilliams and B. J. Scheibner, RM14:73:754

Rock Stability Analysis at Twin Buttes, Ben L. Seegmiller, RM13:72:511

Rock Stabilization at Morrow Point Power Plant, Gilbert L. Brown, Ernest D. Morgan and Jerry S. Dodd, SM1:Jan 71:119:7820

Rock Structure Design by Failure Probabilities, Robert G. Lundquist and Robert W. Heins, RM14:73:329

Rock Tunnels to Control Pollution and Flooding, Vinton W. Bacon and William T. Painter, URC:72:115

Roof Movement Due to Increasing Roof Span in an Underground Opening -- Abstract, W. Karwoski, Raghbir S. Sandhu and R. Singh, RM14:73:752

"Room and Pillar" Structures in Competent Rock, Francois E. Heuze and Richard E. Goodman, URC:72:531

Search for Economical Construction of Concrete Dams Based on Results of Observation, J. Laginha Serafim, M. Guerreiro and C. Gonzalez Florez, ECCD:72:311

Seismic Shear Waves in Engineering, Harold M. Mooney, GT8:Aug 74:905:10745

Shape of the Complete Stress-Strain Curve for Rock, John A. Hudson, Edwin T. Brown and Charles Fairhurst, RM13:72:773

Shear Strength of Flat Surfaces in Rock, James H. Coulson, RM13:72:77

Shotcrete Support in Rock Tunnels in Scandinavia, Owen S. Cecil, CE:Jan 70:72

A Simple Stiff Machine for Testing Rock in Compression, William Hustrulid and Franklin Robinson, RM14:73:61

Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140

The Slide at Brilliant Cut, James V. Hamel, RM13:72:487

Slope Analysis for Explosive Excavations, Richard H. Gates, RM13:72:243

Slope Stability in Tropically Weathered Diorite, Andrew H. Merritt, RM13:72:625

Some Methods of Monitoring Open Pit Sludge, Bruce A. Kennedy, RM13:72:537

Spherical Waves in Inelastic Materials, Jeremy Isenberg and Anjan K. Bhaumik, EM3:June 71:901:8207

Stability of Discontinuous Rock Masses Under Polyaxial Stress Systems, Peter B. Attewell and John P. Woodman, RM13:72:665

Stability Studies of a Footwall Slope in Layered Coal Deposit, C. O. Brawner, D. L. Pentz and J. C. Sharp, RM13:72:329

State of Predictive Art in Subsidence Engineering, Barry Voight and William G. Pariseau, SM2:Mar 70:721:7187

Status of Ground-Probing Radar and Some Recent Experience, John C. Cook, EFSE:Aug 74:175

Storage of Oil in Unlined Caverns in Different Types of Rock, Carl-Olof Morfeldt, RM14:73:409

Strain and Tilt Observations Near an Active Fault, Charles G. Bufe, RM13:72:685

Strain Energy Build-Up in Fatigue Cycling, Gabrielle Douglas and David J. McDougall, RM14:73:121

Strength of a Model of Jointed Rock, Edwin T. Brown and David H. Trollope, SM2:Mar 70:685:7185

Strength of Models of Rock with Intermittent Joints, Edwin T. Brown, SM6:Nov 70:1935:7697

Strength Versus Energy Dissipation in Sandstone, Michael K. McCarter and John E. Willson, RM14:73:223

Stress Measurement by Retractable Cable Method, Rodolfo V. de la Cruz, RM13:72:865

Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25

Study of Clay Shale Slopes, Don C. Banks, RM13:72:303

A Study on a New Concept of Thermal Hard Rock Crushing, Kuppusamy Thirumalai and John B. Cheung, RM14:73:527

Subsurface Video Pulse Radars, David L. Moffatt, EFSE:Aug 74:195

Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501

Survey of Tunnel Portal Construction at U.S. Army Corps of Engineers Projects, Curtis L. Craig and Lawrence R. Brockman, URC:72:167

Tectonic Stresses and Rock Slope Stability, Jerry S. Dodd and H. Walter Anderson, RM13:72:171

Tensile and Compressive Cyclic Stresses in Rock -- Abstract, Bezalel C. Haimson, Chin Man Kim and T. M. Tharp, RM14:73:748

Thermal Fracturing of Hard Crystalline Rock -- Abstract, P. J. Lauriello, RM14:73:751

Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623

Three-Dimensional Approach for Design of Cuts in Jointed Rock, Francois E. Heuze and Richard E. Goodman, RM13:72:397

Time-Dependent Rock Behavior in Uniaxial Compression, W. R. Wawersik, RM14:73:85

"TL" A New Approach to Stress Distribution in Rocks, Gabrielle Douglas, RM13:72:717

Tocks Island Project Spillway Rock Mechanics Studies, A. Depman, K. Dodds and D. Parrillo, RM13:72:443

Tunnel Support-Where Does Geology Come In?, John F. Abel, Jr., CE:Feb 70:70

Underground Rock Structures Challenge the Engineer, Thomas A. Lang, URC:72:1

Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Water Waves Generated by Landslides in Reservoirs, Robert L. Wiegel, Edward K. Noda, Edward M. Kuba, Dennis M. Dee and Gordon F. Tornberg, WW2:May 70:307:7279

Rock Pressures

Rock Engineering for Underground Caverns, Edward J. Cording, Alfred J. Hendron, Jr. and Don U. Deere, URC:72:567

Rock Properties

Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649

Dynamic Behavior of Rocks to Spherical Stress Waves, R. P. Swift and M. W. McKay, RM13:72:797

Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and Tor L. Brekke, RM14:73:481

Failure of Rock Under High Rate Tensile Loads, D. A. Shockey, C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709

Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739

Rock Property Changes Under Air Pollutant Action, D. Joseph Hagerty and C. Robert Ullrich, RM14:73:127

Rock Property Correlation, Crescent Mine, Idaho -- Abstract, E. H. Skinner, G. G. Waddell, P. C. McWilliams and B. J. Scheibner, RM14:73:754

Stress Measurement by Retractable Cable Method, Rodolfo V. de la Cruz, RM13:72:865

Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623

Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Rocks

Bearing Capacity of Concrete Block or Rocks, Wai F. Chen and Daniel C. Drucker, EM4:Aug 69:955:6742

Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610

Plastic Filter Cloth used for Stone Seawalls, James W. Dunham and Robert J. Barrett, CE:Mar 74:70

Stability of Rock Slopes, A Three-Dimensional Study, Pierre Londe, Gaston Vigier and Raymond Vormeringer, SM1:Jan 69:235:6363

Stability of Rock Slopes-Graphical Methods, Pierre Londe, Gaston Vigier and Raymond Vormeringer, SM4:July 70:1411:7435

Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72:235:9173

Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, WW1:Feb 74:13:10325

Rockslides

An Alternative Interpretation of the Vaiont Slide, Kwan Y. Lo, C. F. Lee and P. Gelinas, RM13:72:595
The Slide at Brilliant Cut, James V. Hamel, RM13:72:487

Rock Slope Stability

An Approach to the Stability of Rock Slopes Based on the Theory of Limiting Equilibrium with a Material Exhibiting Anisotropic Shear Strength, J. E. Jennings, RM13:72:269
Cumulative Sums Technique: A New Approach to Analyzing Joints in Rocks, Douglas R. Piteau and Lindsay Russell, RM13:72:1
Discrete Element Techniques for Rock Slope Analysis, K. C. Ko, RM13:72:183
A Model Study on the Slope Stability Around an Open Pit, Y. S. Kim and R. R. Dimock, Jr., RM13:72:201
Open Pit Mine Slope Stability: The Berkeley Pit, William G. Pariseau and Koehler Stout, RM13:72:367
Rock Stability Analysis at Twin Buttes, Ben L. Seegmiller, RM13:72:511
Slope Stability in Tropically Weathered Diorite, Andrew H. Merritt, RM13:72:625
Some Methods of Monitoring Open Pit Sludge, Bruce A. Kennedy, RM13:72:537
Three-Dimensional Approach for Design of Cuts in Jointed Rock, Francois E. Heuze and Richard E. Goodman, RM13:72:397

Rock Tests

Development and Potentials of Moire Method of Strain Analysis for Rock Testing, Kuppusamy Thirumalai and R. L. Fischer, RM13:72:727
Rock Mechanics at Churchill Falls, Raymond P. Benson, Robert J. Conlon, Andrew H. Merritt, Paul Joli-Coeur and Don U. Deere, URC:72:407
Rock Mechanics Studies--Mica Project, B.C., Paul Meidal and R. Kenneth Dodds, URC:72:203
Status of Ground-Probing Radar and Some Recent Experience, John C. Cook, EFSE:Aug 74:175

Rollers

Session I: Densification During Placement (Rollers), Donald T. Goldberg, PISST:71:1

Rolling Friction

Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347
Shakedown of Rolling Wheel under Hub Loading, Subhash C. Anand and Vijay K. Garg, EM6:Dec 74:1237:11035

Romania

Aseismic Design in Romania, P. Mazilu, TB:73:Ib-6-279
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, A. Negoita and Ion G. Pop, TB:73:III-21-247
Structure of Construction Industry in Romania, Daniel W. Halpin, Mihai Nemteanu and Ronald W. Woodhead, CO2:June 74:141:10600

Roof Failures

Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247

Roofs

Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101
An Analysis of Elliptic-Paraboloid Shell, S. P. Banerjee, ST10:Oct 68:2213:6151
Analysis of Hipped Roof Hyperbolic Paraboloid Structures, William C. Schnobrich, ST7:July 72:1575:9052
Analysis of Inelastic Suspension Structures, Thomas M. Murray and Nicholas Willems, ST12:Dec 71:2791:8574
Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473
Analysis of Plane Prestressed Cable Structures, H. Mollmann, ST10:Oct 70:2059:7598
Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11:Nov 72:2605:9356
Behavior of Prestressed Cable Truss Structures, Dwight E. Urelius and David W. Fowler, ST8:Aug 74:1627:10747
Bending Strength of Aluminum Formed Sheet Members, J. R. Jombock and John W. Clark, ST2:Feb 68:511:5816
Buckling of Light-Gage Corrugated Metal Shear Diaphragms, John T. Easley and David E. McFarland, ST7:July 69:1497:6683
Buckling of Open Cylindrical Shells Under Lateral Load, Kuang-Han Chu and Peter Turula, EM6:Dec 70:1143:7736
Cable-Suspended Roof Construction State-of-the-Art, Subcommittee on Cable-Suspended Roof Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, John B. Scalzi, Chmn., ST6:June 71:1715:8190
Cable Suspended Roof for Munich Olympics, Fritz Leonhardt and Jorg Schlaich, CE:July 72:41
Convergence in Highly Nonlinear Cable Net Problems, Anil K. Kar and Clyde Okazaki, ST3:Mar 73:321:9601
Cylindrical Shell Roofs with Draped Prestressing, A. H. Bryant and J. C. Scrivener, ST4:Apr 71:611:6496
Engineers' Inquiry Box: Roof-Tie Downs For Wind Uplift, Peter A. Strobel, CE:Dec 73:64
Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236
Hangar Features Stressed-Skin Hypars, Charles H. Thornton and Richard L. Tomasetti, CE:Nov 70:54
Influence of Edge Cables on Cable Network Behavior, Nejat Tugcu, TN: ST9:Sept 73:1970:9968
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
Lateral Analysis of Plywood Diaphragms, Warren H. Bower, ST4:Apr 74:759:10494
Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71:2837:8604
Membrane Solutions for Shells with Edge Constraint, Charles R. Steele, EM3:June 74:497:10605
Movable Roof for Municipal Pool, Stewart C. Barnett, CE:Jan 70:61
Nonlinear Field Analysis of Structural Nets, R. Richard Avent, ST5:May 69:889:6556
Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
Ponding of Liquids on Flat Roofs, J. Chinn, A. H. Mansouri and Staley F. Adams, ST5:May 69:797:6539
Post-Buckled Strength of Large Space-Truss, John P. Wolf, TN: ST:July 73:1708:9828
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Rigid Urethane Foam Cures Roof Leakage, Bruce C. Gandy, CE:July 73:73
Roof Assembled on Ground, Hoisted into Place, Werner Blum and Philip Wesler, CE:Jan 74:44
Shallow Circular Vaults, James F. Dickie and Peter Broughton, EM1:Feb 73:1:9520
Shear Flexibility and Strength of Corrugated Decks, Eric R. Bryan and Wagih M. El-Dakhakhni, ST1:Nov 68:2549:6218
Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096
Sports Palace for 1968 Olympic Games, D. R. Fernandez, CE:Oct 69:45
Sydney Opera House, O. N. Arup and Gerd J. Zunz, CE:Dec 71:50
Theoretical Analysis of Suspension Roofs, Saafan A. Saafan, ST2:Feb 70:393:7107

Transient Wind Loads on Circular Concave Cable Roofs, Paul P. Christiano, Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966
US Pavilion at EXPO 70 Features Air-Supported Cable Roof, David H. Geiger, CE:Mar 70:48

Room and Pillar Mining
Finite Element Analysis of Rock-Salt Pillar Models, Robert Lee Thoms, Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393
How to Cut Underground Construction Costs, R. L. Loofbourow, CE:June 72:85
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107
Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739
Rock Structure Design by Failure Probabilities, Robert G. Lundquist and Robert W. Heins, RM14:73:329
Roof Movement Due to Increasing Roof Span in an Underground Opening -- Abstract, W. Karwoski, Raghbir S. Sandhu and R. Singh, RM14:73:752
"Room and Pillar" Structures in Competent Rock, Francois E. Heuze and Richard E. Goodman, URC:72:531

Root Systems
Simulation of Post-Irrigation Moisture Movement, Fred J. Molz, IR4:Dec 72:523:9419

Rotation
Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127
Effect of Foundation Rotation, D. Dicke, TB:73:III-23-621
Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
Wall Effect on a Sphere in a Rotating Viscous Fluid, Philip K. Davis, HY10:Oct 70:2019:7625

Rotational Flow
Deformation of Rotational Tidal Currents in Shallow Coastal Water, Harald Gohren, 12CEC:71:2147
Irrotational Flow with Irregular Boundary Shapes, Albert G. Mercer, HY8:Aug 73:1209:9937
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441:9618

Rotational Spectra
Rotational Capacity of Prestressed Concrete Beams, Alfred G. Bishara and Gurcharan S. Brar, ST9:Sept 74:1883:10821

Roughness
Friction-Factors for Flat-Bed Flows in Sand Channels, Frederico Lovera and John F. Kennedy, HY4:July 69:1227:6678
Shear Strength of Flat Surfaces in Rock, James H. Coulson, RM13:72:77
Stochastic Open Channel Flow, Chao-Lin Chiu, EM3:June 68:811:5999

Roughness (Hydraulic)
Analysis of Flow in Channels with Gravel Beds, John A. Roberson and Steven J. Wright, HYB:Aug 73:63
Analysis of Natural Roughness Profiles, Chesley J. Posey, TN: SM11:Nov 72:2065:9311
Analysis of Resistance Over Staggered Roughness, Hsieh W. Shen and Ruh-Ming Li, TN: HY11:Nov 73:2169:10/47
Equivalent Roughness for Shallow Channels, Muthusamy Krishnamurthy and Bent A. Christensen, TN: HY12:Dec 72:2257:9397
Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831
Flexible Roughness in Open Channels, Nicholas Kouwen and Tharakkal E. Unny, HY5:May 73:713:9723
Flow Resistance from Cylindrical Roughness, Soronadi Nnaji and I-pai Wu, IR1:Mar 73:15:9612
Friction Factors for Flow in Sand Bed Channels, Abu M.Z. Alam and John F. Kennedy, HY6:Nov 69:1973:6900
Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498
Phase Dependent Roughness Control of Sand Movement, Douglas L. Inman and Edward B. Tunstall, CE13:72:II-1155
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195
Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506
Turbulence in Wakes of Roughness Elements, C. K. Chen and John A. Roberson, HY1:Jan 74:53:10257
Turbulent Flows Past Boundaries with Small Streamwise Flows, John F. Kennedy, Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664
Unified Formulation of Wall Turbulence, Gour-Tsyh Yeh, TN: HY12:Dec 72:2263:9397

Roughness Coefficient
Effects of Mechanical Cleaning Operations on Flow In Large Conduits, George F. Horowitz and Nelson N. Lee, HY5:May 71:677:8110
Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498

Routes
Environmental-Geotechnical Considerations in the Routing of EHV Transmission Lines, Alfred E. Caswell, Charles V. Nazare, Richard J. Berger and Joseph F. Torri, EPCE:Aug 74:587
User-Optimized Traffic Assignment, Frank J. Hatfield, TE2:May 74:313:10519

Route Surveys
Transportation Planning for Urban School Systems, Patrick R. Pickens and John M. Tyler, TE2:May 74:461:10555

Routing
Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4:Nov 72:807:9320
Heuristic Scheduling Procedures for PRT System, Patrick R. Esposito, TE4:Nov 74:845:10910
Routing for Public Service Vehicles, David H. Marks and Robert Stricker, UP2:Dec 71:165:8573
Sediment Routing in Irrigation Canal Systems, Khalid Mahmood, IR1:Mar 74:49:10401

Rubber
Elastomeric Bridge Bearings, Charles E. Rejcha, CE:May 72:46

Rubble
Armor Stability of Overtopped Breakwater, Patrick T. Lording and John R. Scott, WW2:May 71:341:8138
Port Construction At Burns Waterway Harbor, John H. McGavock, Norman R. Loesing and Elvis R. Dye, CO1:Mar 71:17:7990
Wave Statistics and Rubble Mound Structures, J. Ian Collins, WAVES:Sept 74:486

Rubble Mounds
Damage Functions for a Rubble-mound Breakwater Under the Effect of Swells, Juan B. Font, 12CEC:71:1567
Design of Filter System for Rubble-Mound Structures, Theodore T. Lee, CE13:72:III-1917
Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, Yvon Ouellet, WW1:Feb 72:1:8693
Use of Asphalt in Breakwater Construction, K. d'Angremond, H. J. Th. Span, J. van der Weide and A. J. Woestenenk, 12CEC:71:1601

Runge-Kutta Method
Nonlinear Beam and Plate Elements, Jimmy H. Smith, ST3:Mar 72:553:8768

Runoff

Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
Agricultural Waste Management, J. Ronald Miner, EE2:Apr 74:363:10470
Analytically Derived Unit Graph and Runoff, Roger P. Betson and Ralph F. Green, HY6:Nov 68:1489:6256
Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie Ling Chiang, HYB:Aug 73:371
Channel Slope Effect on Peak Discharge of Natural Streams, Charles L. Armentrout and Robert B. Bissell, HY2:Feb 70:307:7052
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Computer Models for Reservoir Regulation, Daniel P. Loucks, SA4:Aug 68:657:6075
Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Computer Simulation Of Urban Storm Water Runoff, Carl W. Chen and Robert P. Shubinski, HY2:Feb 71:289:7924
Creating Hydrophobic Soil for Water Harvesting, Lloyd E. Myers and Gary W. Frasier, IR1:Mar 69:43:6436
Dieldrin in Runoff from Treated Watersheds, J. H. Caro, W. M. Edwards and B. L. Glass, IAWM:72:141
Drainage and Pollution from Beef Cattle Feedlots, Raymond C. Loehr, SA6:Dec 70:1295:7726
Economic Measure of Effect of Extreme Data, Myron B. Fiering, SA4:Aug 69:683:6720
Effect of Period of Record on Flood Prediction, Peter Victorov, HY11:Nov 71:1853:8525
Effect of Snow Cover on Upward Movement of Soil Moisture, Eugene L. Peck, IR4:Dec 74:405:10989
Effect of Unit Weight and Slope on Erosion, Richard L. Foster and L. Glen Martin, IR4:Dec 69:551:6984
Elevation Dependent Model for Estimating Annual Runoff, Verne E. Smith, Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
Estimation of Washload Produced on Certain Small Watersheds, Oswald Rendon-Herrero, HY7:July 74:835:10638
Estuaries Need Freshwater, Charles R. Chapman, SEA:70:233
Experimental Examination of the Rational Method, John C. Schaake, Jr., John C. Geyer and John W. Knapp, HY6:Nov 67:353:5607
Flood Inflation, Donald L. Milliken, IMROD:Sept 73:399
The Flood Management Project for Atchison, Kansas, Bernard T. Pierce, IAWM:72:209
Flood Peaks from Small Southwest Range Watershed, Kenneth G. Renard, John C. Drissel and Herbert B. Osborn, HY3:Mar 70:773:7161
Flow Simulation System, Richard F. Lanyon and James Jackson, HY8:Aug 74:1089:10743
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Hydrology of Porous Pavement Parking Lots, Thomas J. Jackson and Robert M. Ragan, HY12:Dec 74:1739:11010
Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73:519:10188
Independent Comparison of Three Urban Runoff Models, David P. Heeps and Russell G. Mein, HY7:July 74:995:10685
Infiltration of Water into Nonuniform Soil, Herman Bouwer, IR4:Dec 69:451:6937
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
Initial Loss for Flood Estimation and Forecasting, Ian Cordery, HY12:Dec 70:2447:7737
Investigation of Brahmaputra River, Abdul Latif, HY5:Sept 69:1687:6793
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
Land Capability Classes As Hydrologic Response Units in Watersheds, Charles B. England, IAWM:72:53
Lower Cost Water Harvesting Methods, Keith R. Cooley, Lloyd E. Myers and Gary W. Frasier, IAWM:72:27
Management of Ephemeral Stream Channels, Herbert B. Osborn and Kenneth G. Renard, IR3:Sept 73:207:10005
Master Planning Methodology for Urban Drainage, Harold F. Bishop, HY1:Jan 74:189:10290
A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171:9034
New Concepts in Suburban Drainage in Florida, Kenneth A. Bryant, Jr. and James N. Krider, IR73:Aug 73:471
New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19
Obtaining Overland Flow Resistance by Optimization, David L. Schreiber and Donald L. Bender, HY3:Mar 72:429:8773
Opportunities for Watershed Management in Wyoming, Paul A. Rechard, IR73:Aug 73:423
The Perimeter Canal—A New Approach to Discharge Urban Water into a Coastal Mangrove Area, Charles H. King, Jr. and Gerald M. Ward, IR73:Aug 73:99
Planning and Control of Combined Sewerage Systems, William R. Giessner, Robert T. Cockburn, Frank H. Moss, Jr. and Mark E. Noonan, EE4:Aug 74:1013:10744
Planning Standards for Storm Drainage, Myron D. Calkins, UP1:Mar 70:53:7133
Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785
A Proposed Watershed Retention Function, Willard M. Snyder, IR1:Mar 71:193:7979
Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244
Rational Model Describing Slope Erosion, Dale L. Rowlison and Glen L. Martin, IR1:Mar 71:39:7981
Rational 'Rational' Method of Storm Drainage Design, Richard A. Rogers, IR4:Dec 68:465:6301
Real-Time Computer Control of Urban Runoff, James J. Anderson, HY1:Jan 70:153:7028
Reduction of Urban Runoff Peak Flows by Ponding, Leonard Rice, IR3:Sept 71:469:8351
Research on Sleepers River at Danville, Vermont, Martin L. Johnson, IR1:Mar 70:67:7184
Role of Bedrock in Watershed Management, Walter F. Megahan, IR73:Aug 73:449
Run Hydrographs from Poisson Generated Run Lengths, Lourens A.V. Hiemstra, HY11:Nov 74:1617:10959
Runoff Forecasts by Linear Predictive Filter, Mikio Hino, HY3:Mar 70:681:7146
Runoff Grouping for Detection of Change in Runoff, Hiroshi Nakamichi and Hubert J. Morel-Seytoux, IR2:June 71:275:8201
Runoff Routing Through Steep Natural Channels, Rolf Kellerhals, HY11:Nov 70:2201:7666
Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169
Sprayed Asphalt Pavements for Water Harvesting, Lloyd E. Myers, Gary W. Frasier and John R. Griggs, IR3:Sept 67:79:5413
Statistical Safety Factor Concept for Determining the Probable Maximum Flood, Boris S. Browzin, SDNPF:Dec 73:557
Stormwater Treatment: Four Case Histories, John A. Lager, CE:Dec 74:40
Stream Enrichment from Farm Operations, Neal E. Minshall, Stanley S. Witzel and M. Starr Nichols, SA2:Apr 70:513:7238
Streamflow Depletion Resulting from Upstream Surface-Water Impoundment, Stanley P. Sauer, IR73:Aug 73:593
Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887

A System for Regulation of Combined Sewage Flows, Charles V. Gibbs, Stuart M. Alexander and Curtis P. Leiser, SA6:Dec 72:951:9402
Testing Methods for Determination of Urban Runoff, Constantine N. Papadakis and Herbert C. Preul, HY9:Sept 73:1319:9987
Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7: July 73:1129:9871
University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
Urban Runoff by Linearized Subhydrographic Method, Jong-Song Chien and Krishan K. Saigal, HY8:Aug 74:1141:10766
Urban Storm Drainage Criteria Manual from Denver, Elmer L. Claycomb, CE:July 70:39
Urban Water Management Needs in Runoff and Flood Regulation, James R. Wallace, UWRM:71:32
Variation in Lag Time for Natural Catchments, Arthur J. Askew, HY2:Feb 70:317:7051
The Varying Source Area Of Streamflow From Upland Basins, John D. Hewlett and Wade L. Nutter, IAWM:72:65
Vegetation Management To Increase Water Yield, Herbert C. Storey and Irvin C. Reigner, IAWM:72: 271
Volume of Snowmelt Intercepted by Logging Roads, Edward R. Burroughs, Jr., Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770
Water Pollution and Associated Effects from Street Salting, Richard Field, Edmund J. Struzeski, Jr., Hugh E. Masters and Anthony N. Tafuri, EE2:Apr 74:459:10473
Watershed Behavior After Forest Fire in Washington, J. D. Helvey, IR73:Aug 73:403
Weather Modification as a Watershed Management Tool, Merlin C. Williams, IR1:Mar 69:15:6434

Runoff Coefficient
Effect of Urbanization on Storm Water Peak Flows, Pedro C.C. DaCosta, SA2:Apr 70:187:7198

Runoff Forecasting
Status of Weather Modification in Watershed Management, Merlin C. Williams, IR4:Dec 71:585: 8608
Where Is Urban Hydrology Practice Today?, D. Earl Jones, Jr., HY2:Feb 71:257:7917

Runways
Breaking Load for Rigid Pavement, K. K. Ghosh and M. Dinakaran, TE1:Feb 70:87:7108
Buckling of Continuously Supported Beams, Arnold D. Kerr, EM1:Feb 69:247:6422
Continuous Reinforcement in Airport Concrete Pavements, Frederick A. Antonelli, CE:Dec 69:62
Dynamic Response of Airplanes in Ground Operation, Te-ming Hsueh and Joseph Penzien, TE3:Aug 74:743:10755
Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45
Grooving on the Runway at Washington National Airport, Vernon R. Gingell, CE:Jan 69:31
Newark Airport Redevelopment Program, John P. Veerling, AT1:Nov 68:19:6244
Optimization of Runway Exit Configurations, Everett S. Joline, TE1:Feb 74:85:10350
Runway Overlay Applied Overnight at Toledo Airport, Eugene R. Kasper, CE:Aug 69:58
Runway Roughness Effects on New Aircraft Types, Harry R. Lee, AT1:Nov 68:1:6205
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19
Subgrade Strengthening of Existing Airfield Runways, Quentin L. Robnett, TE2:May 73:267:9724

Rupturing
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Development of Response Spectra for a Thin Shell Structure, D. R. Denton, Chung-Tung Shen and C. K. Webster, SDNPF:Dec 73:571
Fluid Interaction with Fracture Propagation in Pipelines, Bernard Steverding and Vernon A. Nieberlein, TE3:Aug 74:583:10726
Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219
Steam Jet Force Decay, R. H. Greenwood, SDNPF: Dec 73:591
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151

Rural Areas
Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650

Sacrificial Anodes
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196

Safety
Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127
Analysis of Vibration of Hollow-Cone Valves, Chung-su Wang, EM6:Dec 73:1147:10215
Application of New Methods of Structural Analysis for Safety Investigations of Concrete Dams, Eric B. Kollgaard, IMROD:Sept 73:498
Artificial Playing Surface, Jim Clifton, CEWAU:74: 90
Behavioral Evaluation of Pedestrian Countermeasures, Wallace G. Berger, BP73:Dec 73: 112
Benefits from TOPICS-type Improvements, H. Jack Leonard, CE:Feb 71:62
Bicycles for the Human Environment: New Developments at the U.S. Department of Transportation, Benjamin O. Davis, Jr., BP73:Dec 73:30
Bicycling Safety and Enforcement Programs - Why They Fail, Larry Wuellner, BP73:Dec 73:565
Bureau of Reclamation Examination Program, Paul K. Bock, IMROD:Sept 73:50
Bureau of Reclamation Shotcrete Design Practices, John W. Morris, SUSS:July 73:153
The Civil Engineer and Highway Safety, CE:Nov 70: 63
Code Specification of Safety and Serviceability, State-of-Art Report 2, Emilio Rosenblueth, TB:73:Ib-10-931
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
Construct Systems, Summary Report, W. H. Arch, Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823
Contributions of the Federal-Aid Highway Program, Francis C. Turner, CE:June 70:71
Control of the Construction Process, State-of-Art Report 2, Richard C. Halpern, TB:73:Ia-4-689
Corps of Engineers Dam Inspection Program, James A. Rhodes, IMROD:Sept 73:61
Crane Safety, Suzy Fisher, CE:Feb 72:61
Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918
Dade County Bikeways, Ron Tietgen, BP73:Dec 73: 286
Dam Inspection Program of the Federal Power Commission, Desloge Brown, IMROD:Sept 73:23
Dam Safety-An Objective of Federal Licensing, F. Stewart Brown, PO1:Mar 67:67:5155

Dam Safety Laws and Dam Safety Inspections in South Africa, Johannes Gideon du Plessis, IMROD:Sept 73:241
Dam Safety Laws and Inspection Procedures in the United Kingdom, Angus A. Fulton, IMROD:Sept 73:180
Dam Safety Program in Pennsylvania, Clifford H. McConnell, IMROD:Sept 73:139
Designing Arterial Streets for Safety, Laurence A. Dondanville, TE1:Feb 71:43:7885
Designing Fail-Safe Structures of Highway Safety, Flory J. Tamanini, TE2:May 71:305:8150
Design of Columns for Seismic Loads, Aybars Gurpinar and James T.P. Yao, ST9:Sept 73:1875:9978
Design Requirements for Safer Highway Bridge Rails, Robert M. Olson, Edward R. Post and Don L. Ivey, TE2:May 71:291:8125
Determination of Concrete Properties in Old Dams, Arthur G. Strassburger, IMROD:Sept 73:477
Determination of the Adequacy of Investigations for Evaluation of Dam Safety, William A. Wahler, IMROD:Sept 73:714
Deterministic and Probabilistic Design Wave Approach to Engineering Application, Ronald M. Noble and Richard B. Dornhelm, WAVES:Sept 74:856
Development of Tunneling Methods and Controls, Ellis L. Armstrong, CO2:Oct 70:99:7577
Dynamic Programming of Highway Safety Projects, Marvin M. Johnson, Charles E. Dare and Harry B. Skinner, TE4:Nov 71:667:8534
Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134
The Elderly Pedestrian: A Special Problem, Susan B. Haberkorn, BP73:Dec 73:414
Electricite de France Experiences and Practice in Safety Inspections of Old and New Dams, A. J. Taillebot, IMROD:Sept 73:229
Energy Absorbing Roadside Crash Barriers, Flory J. Tamanini and John G. Viner, CE:Jan 70:63
Engineers Study Highway Safety, A. C. Estep, CE:Mar 70:68
Experience and Problems with Dams in Idaho, A. Kenneth Dunn, IMROD:Sept 73:100
Experience and Problems with Dams in Texas, John R. Clarke, IMROD:Sept 73:105
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
Fire and Blast, Theme Report, Duiliu Sfintesco, TB:73:Ib-8-463
Fire Safety in High Rise Buildings, David C. Grupp, BP73:Dec 73:454
General Statement of Principles to be Included in State Water Rights Laws, Floyd A. Bishop, Chmn., IR2:June 72:317:8996
A General Study of Tornado Generated Missiles, A. J.H. Lee, SDNPF:Dec 73:515
High-mount Interchange Lights, Richard C. LeVere, CE:May 71:44
"Highway Safety, Design and Operations, Narrow Bridges-Driver Dilemmas," report of hearings before the Subcommittee on Investigations and Review of the Committee on Public Works, House of Representatives (Book Review), Frederick Reickert, CE:Apr 74:36
Impact of OSHA on Designers, Vernie G. Lindstrom, CE:July 73:85
Incorporating Highway Safety into Level of Service, Walter J. Diewald, TE2:May 74:417:10557
Inspect Bridges Now, Avoid Problems Later, Chester F. Comstock, CE:Nov 71:66
Investing in Urban Bicycle Facilities, Richard C. Podolske, TE3:Aug 74:687:10742
Limits of Usefulness, State-of-Art Report 2, Lars Ostlund, TB:73:II-19-841
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
Loading Function, State-of-Art Report 2, John Strating, TB:73:II-19-849
Major Research Studies on Signs, Lights and Guardrails, James R. Novak and Krieger W. Henderson, Jr., TE4:Nov 70:523:7663
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72:769:9355
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Monte Carlo Study of Structural Safety, Robert F. Warner and A. P. Kabaila, ST12:Dec 68:2847:6275
National Program for Inspection of Dams, John W. Morris, IMROD:Sept 73:14
New Design Criteria for USBR Penstocks, Harold G. Arthur and John J. Walker, PO1:Jan 70:129:7034
New Highway Bridge Dimensions for Safety, John N. Clary, TE2:May 71:371:8152
Offshore Airport Site Planning, Frank T. Wheby, TE3:Aug 74:543:10725
Operation and Maintenance of Campus Bicycle Facilities, John E. Baerwald, BP73:Dec 73:167
Optimum Stiffness and Strength of Elastic Structures, Ernest F. Masur, EM5:Oct 70:621:7580
Owner's Comments, Edward J. Drobnack, IMROD:Sept 73:523
Paved Highway Shoulders and Accident Experience, Clinton L. Heimbach, William W. Hunter and George C. Chao, TE4:Nov 74:889:10921
Planning and Designing for the Pedestrian Environment, Anthony R. Ameruso, BP73:Dec 73:204
Plastic Liners for CANDU Containment Structures, E. C. Smith, ST10:Oct 71:2583:8435
Probabilistic Methods, Jack R. Benjamin, TB:73:Ib-10-1013
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andrew Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Problems in Assuring the Safety of Pedestrians, Susan P. Baker, BP73:Dec 73:364
Professional Athletics -- Introduction, M. D. Morris, CEWAU:74:73
Prospects for Bicycle Transportation, Jason C. Yu, BP73:Dec 73:645
Public and Legislative Support for Bikeways, John Auerbach, BP73:Dec 73:20
Reaction to USCOLD's Proposed Law for Dam Safety, Alfred R. Golze, IMROD:Sept 73:282
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
Reevaluation and Reconstruction of California Dams, Clifford J. Cortright, PO1:Jan 70:55:7008
Regulations for Pedestrian and Bicycle Safety: Why, Who, What and How to Regulate, Monroe B. Snyder, BP73:Dec 73:553
Rehabilitation of Dams: Retrospect and Prospect, Gilbert G. Stamm, IMROD:Sept 73:4
Reliability Bases of Structural Safety and Design, Alfredo H.-S. Ang and C. Allin Cornell, ST9:Sept 74:1755:10777
A Remark on the Probabilistic Analysis of Structural Safety, Alessandro Baratta, TB:73:Ib-10-1039
Remote Nozzle Permits High Production and Safety, James S. Goff, SUSS:July 73:405
Research on Safety and Locational Criteria for Bicycle Facilities, Daniel T. Smith, Jr., BP73:Dec 73:134
Response Function, State-of-Art Report 4, Theodore V. Galambos, TB:73:II-19-861
Role of the Air Line Pilot in Air Transportation, W. T. Alford, ASC73:Mar 73:55
Safety Against Dynamic Forces, Masanobu Shinozuka, ST9:Sept 74:1821:10781
Safety Analysis for Tall Buildings, State-of-Art Report 5, Fred Moses and Milik Tichy, TB:73:Ib-10-993
Safety Appraisal of Old Dams: An Updated Perspective, Gurmukh S. Sarkaria, IMROD:Sept 73:405
Safety Aspects of Bicycle Transportation, Paul H. Wright, A. Trent Germano and R. Gary Hicks, BP73:Dec 73:368
Safety in Construction—The Contractor's Viewpoint, John E. Witte, TN: CO3:Sept 74:497:10773

Safety Inspection Of Hydro Projects-FPC Order 315, Arthur Martin, Jr., PO2:Mar 71:449:7958
Safety Level Decisions, State-of-Art Report 3, Niels C. Lind and E. Basler, TB:73:Ib-10-961
Safety Of An Elastic Beam-Column, Colin B. Brown and Roger J. Evans, TN: ST3:Mar 72:805:8755
Safety of Dams - Bureau of Reclamation, Donald A. Gray, HY2:Feb 74:267:10354
Safety of Dams -- Hydrologic and Hydraulic Aspects, Vernon K. Hagen, IMROD:Sept 73:337
Safety of Pedestrians and Abutting Property Occupants, Julie Anna Fee, BP73:Dec 73:85
School Trip Safety and Urban Play Areas - A Study of the Young Pedestrian, Martin L. Reiss, BP73: Dec 73:96
Seismic Resistant Design of Safety Class Structures and Equipment, Chang Chen, SDNPF:Dec 73:459
Selecting Spillway Floods for Existing Structures (Bureau of Reclamation Application), Frederick A. Bertle, IMROD:Sept 73:328
Shakedown Of Plastic Structures With Unstable Parts, Giulio Maier, TN: EM5:Oct 72:1322:9228
Shotcrete Safety and Environmental Control, Robert C. Bates, SUSS:July 73:130
Significance of Safety in Civil Engineering Practice, in the Public Interest, by the ASCE Task Committee on Safety Policy, Richard N. Bergstrom, Chmn., EI1:Jan 74:11:10299
A Statement of National Highway Transportation Policy, by the Committee on Transportation Policy of the Tranportation Engineering Coordinating Committee, Harold W. Hansen, Chmn., TE3:Aug 69:399:6717
States' Experiences in Dam Safety Regulations, Clifford J. Cortright, IMROD:Sept 73:86
The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700
Structural Design Based on Weighted Fractiles, Eero Paloheimo and Matti Hannus, ST7:July 74:1367: 10663
Structural Safety—A Literature Review, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
Structural Safety and Probabilistic Methods, Summary Report, Luis Esteva, TB:73:Ib-10-1043
Summaries of Sessions, William N. Holway, IMROD: Sept 73:273
Summary of Presentations and Discussions on Materials Deterioration and Ancillary Equipment, Eric B. Kollgaard and Joseph D. Walters, IMROD: Sept 73:528
Summary of Session X - Shotcrete Case Histories and Specialties, Kenneth D. Hansen, SUSS:July 73: 436
Surveying Safety, John M. Shields and Jack J. Wilks, SU1:July 72:67:9057
There Oughta Be A Law!, Norman A. Clarke, BP73: Dec 73:550
Tornado Generated Missiles, James R. McDonald, Joseph E. Minor and Kishor C. Mehta, SDNPF: Dec 73:543
Transportation Planning for Urban School Systems, Patrick R. Pickens and John M. Tyler, TE2:May 74:461:10555
Truck escape lanes on mountain roads, Glenn S. Baldwin, CE:July 74:64
TVA Dam Inspection Activities, Lloyd W. Lundin, IMROD:Sept 74:39
Uncertainty, Safety, and Decision in Soil Engineering, Tien H. Wu, GT3:Mar 74:329:10434
Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2: May 72:285:8914
Wearability of PC Concrete Pavement Finishes, Alvin H. Meyer, TE3:Aug 74:719:10736
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53
What Safety Margin is Necessary in a Structure?, F. K. Lightenberg, TB:73:Ib-10-1032
When is Foundation Seepage Unsafe?, William A. Clevenger, IMROD:Sept 73:570

Safety Belts
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58

Safety Devices
Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115
Crane Safety, Suzy Fisher, CE:Feb 72:61
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58
1,250-ton Rotating Derrick, David M. Herring, CE: July 71:53

Safety Engineering
Designing Fail-Safe Structures of Highway Safety, Flory J. Tamanini, TE2:May 71:305:8150
Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64
Safety in Construction: Whose Responsibility, Joseph Goldbloom, CE:Nov 69:42
Structural Safety—A Literature Review, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
Surveying Safety, John M. Shields and Jack J. Wilks, SU1:July 72:67:9057
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58

Safety Factor
Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817
Bigger Bridge Loads Coming-Will We Be Ready, Arthur L. Elliott, CE:Feb 69:52
Concept of Structural Control, James T. P. Yao, ST7: July 72:1567:9048
Consistent Partial Safety Factors, Niels C. Lind, ST6: June 71:1651:8166
Design of Embankments on Peat, Gerald P. Raymond, GT74:June 74:143
Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steel of Joint ASCE-AASHO Committee on Steel Flexural Members, C. E. Eckberg, Jr., ST9:Sept 68:2033:6112
Effect Of Safety Factor On Cost Of Arch Dams, Roman P. Wengler, RCCD:70:249
Eight Years of Observations at El Infiernillo Dam, Raul J. Marsal and Luis Ramirez de Arellano, PES: 72:I-703
Failure of a Test Embankment on Sensitive Clay, Oscar Dascal, J. P. Tournier, Francois A. Tavenas and Pierre La Rochelle, PES:72:I-129
Noncircular Sliding Surfaces, James M. Bell, SM3: May 69:829:6567
Objective Determination of Safety Factor in Reservoir Design, E. R. Close, Leo R. Beard and David R. Dawdy, HY5:May 70:1167:7297
Safety Factors and Probability in Structural Design, Alfredo H.-S. Ang and Mohammad Amin, ST7:July 69:1389:6667
Safety Of An Elastic Beam-Column, Colin B. Brown and Roger J. Evans, TN: ST3:Mar 72:805:8755
Seismic Safety of Earth Dams, Tien H. Wu and Leland M. Kraft, Jr., SM6:Nov 70:1987:7686
Slope Analysis for Explosive Excavations, Richard H. Gates, RM13:72:243
Statistical Safety Factor Concept for Determining the Probable Maximum Flood, Boris S. Browzin, SDNPF:Dec 73:557
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Safety Factors
The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE: Aug 72:55
Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23
Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5: May 72:989:8874

Elastic and Limit States Design, I. A. El-Demirdash, TB:73:II-19-892
Expected Value of Ultimate Load Factor, Alberto Castellani, TN: ST2:Feb 73:291:9545
Factor of Safety of Connections, R. Delesques, TB: 73:II-19-890
Filtered Poisson Process for Random Vibration Problems, Ronald L. Racicot and Fred Moses, EM1:Feb 72:159:8725
Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Influence of Progressive Failure On Slope Stabilities, Fredy Romani, Charles William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
In-Situ Measurement Of Soil Creep, R. A. Lohnes, Alvaro Millan and Richard L. Handy, TN: SM1: Jan 72:143:8618
Load Factor Variables, James G. Mac Gregor, TB:73: III-26-935
Rock Structure Design by Failure Probabilities, Robert G. Lundquist and Robert W. Heins, RM14: 73:329
Shear Strength and Stability of Man-Made Slopes, Awtar Singh, SM6:Nov 70:1879:7652
Strength Factors for Composite Members, David E. Allen, TB:73:III-26-940
Structural Safety and Probabilistic Methods, Theme Report, C. Allin Cornell, TB:73:Ib-10-911

Safe Yield
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214

Sag
Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841

Sagging
Contact Between Plates and Sagged Supports, John Dundurs, Kraiwood Kiattikomol and Leon M. Keer, EM2:Apr 74:445:10485

Sahara Desert
Future of Ground Water in African Sahara Desert, Hammad Y. Hammad, IR4:Dec 69:563:6986

Salaries
American Engineering Unions, Hatim M. Hajj, PP2: Apr 73:213:9657
ASCE Salary Survey, Charles J. Stevens, Chmn., PP3:July 72:393:9025
Blueprint for the New ASCE Year, Samuel S. Baxter, CE:Jan 71:43
California ASCE Sections Prepare Employment Guidelines, George S. Korbay and Ronald P. Gallagher, CE:Jan 72:52
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
Commentary, Keith A. Foucher, CEWAU:74:281
Construction Cost and Design Considerations, John W. Leonard, RCCD:70:31
Consulting Firms Tackle Salary Guidelines, Kneeland A. Godfrey, Jr., CE:Aug 73:77
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887
Dsc, Engineering Salaries Up Despite Employment Lag, CE:Mar 71:64
Engineers Salaries: What California Is Doing, Schaefer J. Dixon and L. Lawrence Lewis, CE:June 70:56
Guidelines for Employer-Engineer Relationships, CE: July 71:57
National ASCE Drafts Proposed Salary Guidelines, CE:Jan 72:42
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
Retirement Starts Now, Ernest W. Fair, CE:Nov 73: 77
Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083
Salary Guidelines: Enlightened Implementation or Unionization?, Jack H. McMinn, PP4:Oct 73:429: 10090
Which First Higher Fees or Higher Salaries, Cranston Rogers, CE:Aug 73:76
1969 ASCE Salary Survey, W. W. Ewell, Chmn., PP1:Sept 70:111:7500

Salary Administration
Financial Tools for a Consulting Firm, Roy T. Sheehey, CE:Jan 72:66

Salary Surveys
1973 Salary Survey, by the Committee on Employment Conditions of the Department of Professional Activities, Edward A. Bryant, Chmn., EI2:Apr 74:127:10450

Sales
The Civil Engineer as a Sales Engineer, James M. Dockey, CE:Feb 71:78
Competitive Bidding on Foreign Work, E. Montford Fucik, PP1:Oct 71:121:8456

Saline Groundwater
Management of Waste Fluids in Salaquifers, Raphael G. Kazmann, Oscar K. Kimbler and Walter R. Whitehead, IR4:Dec 74:413:10991

Saline Lakes
Powerplant Chamber Under Oroville Dam, George H. Kruse, URC:72:333

Saline Soils
Salt Balance, Irrigation Efficiency, and Drainage Design, Herman Bouwer, IR1:Mar 69:153:6465

Saline Water
Drainage Analysis of a Confining Formation, Leo C. Benz and Eugene J. Doering, IR73:Aug 73:225
Hydrodynamical Stability of Salt Wedge, Fang A. Lee, HY1:Jan 74:17:10276
Irrigation Practices in Desert Regions of Chile, Wulf Klohn, IRS:Sept 72:211
Wellton-Mohawk Drainage and the Mexican Salt Problem, Clifford C. Tabor, IR73:Aug 73:285

Saline Water-Freshwater Interfaces
A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717
Wellton-Mohawk Drainage and the Mexican Salt Problem, Clifford C. Tabor, IR73:Aug 73:285

Saline Water Intrusion
Analytical Modeling of Estuarine Circulation, John S. Fisher, John D. Ditmars and Donald R.F. Harleman, CE13:72:III-2297
Density Currents and Turbulent Diffusion in Locks, A. Roy Halliwell and Martin O'Dell, 12CEC:71: 1959
Deterioration and Restoration of Coastal Wetlands, Sherwood M. Gagliano, Hyuck J. Kwon and Johannes L. van Beek, 12CEC:71:1767
Experiences with Tidal Salinity Model Europoort, A. J. van Rees, P. van der Kuur and H. J. Stroband, CE13:72:III-2345
Hydrodynamical Stability of Salt Wedge, Fang A. Lee, HY1:Jan 74:17:10276
A Mathematical Model for Salinity Intrusion, A. Y. Kuo and Ching S. Fang, CE13:72:III-2265
Measurement of Density Currents in an Idealized Model, Timm Stuckrath, 12CEC:71:1979
Minimum Length of Salt Intrusion in Estuaries, Ben P. Rigter, HY9:Sept 73:1475:10010
Wellton-Mohawk Drainage and the Mexican Salt Problem, Clifford C. Tabor, IR73:Aug 73:285

Saline Water Systems
An Evaluation of Mixing in the Tay Estuary, J. R. West and David J.A. Williams, CE13:72:III-2153

Salinity
Application of PL-566 to Drainage Problem, Paul Tilker, IRS:Sept 72:17
Arrested Wedge in Circular Tube, James J. Sharp and Chung-su Wang, TN: HY7:July 74:1085:10640
Controlling Salinity by Lining Distribution System, Wynn R. Walker, IRS:Sept 72:113
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Detection of Upward Percolation of Saline Lake Water, C. J. Braudo, F. Mero and A. Mercado, HY9:Sept 70:1795:7519
Dispersion and Flushing of Pollutants in Extuaries, Donald W. Pritchard, HY1:Jan 69:115:6344
Displacement Front Under Ponded Leaching, James N. Luthin, Pedro Fernandez, B. Maslov, J. Woerner and Frank E. Robinson, IR1:Mar 69:117:6446
Electrical Dispersion in Relation to Soil Structure, James K. Mitchell and Kandiah Arulanandan, SM2: Mar 68:447:5853
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
Estimating Dispersion Coefficents In Estuaries, David A. Bella and William J. Grenney, TN: HY3: Mar 72:585:8754
An Evaluation of Mixing in the Tay Estuary, J. R. West and David J.A. Williams, CE13:72:III-2153
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493
Heated Water Jet in Coflowing Turbulent Stream, Mostafa A. Shirazi, Raul S. McQuivey and Thomas N. Keefer, HY7:July 74:919:10661
Hydrology and Geology of Honolulu Aquifer, David K. Todd and Charles F. Meyer, HY2:Feb 71:233: 7910
Impacts of Colorado River Salinity, Vernon E. Valantine, IR4:Dec 74:495:10985
Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR73:Aug 73:647
Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR3:Sept 74:321:10822
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
Mathematical Model of Mixing in New Haven Harbor, Michael D. Disko, Robert A. Norris and Francis C. Lutz, 12CEC:71:1847
Maximum Entropy Mixing in Estuaries, Dominic M. Di Toro, TE4:July 69:1247:6885
Movement of Salts in Ponded Anisotropic Soils, Jaime Ortiz and James N. Luthin, IR3:Sept 70:257: 7530
New Horizons in the Field of Tidal Hydraulics, Clarence F. Wicker, HY1:Jan 69:147:6346
Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300
Pattern Forming Forces in Deltas, Richard Silvester and Catalino del Rosario de la Cruz, WW2:May 70: 201:7260
Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3: Mar 72:503:8769
Preservation of Estuaries by Tidal Inlets, Mason G. Lockwood and Henry P. Carothers, WW4:Nov 67: 133:5583
Problems of Water Quality Management in Western River Basin Systems, Arthur F. Pillsbury, IR73:Aug 73:729
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964
Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
Salinity Status of Marl Soils in Southern Florida, E. H. Stewart, R. R. Alberts and P. G. Orth, SEA:70: 63
Turbulent Diffusion and Entrainment in Two-Layer Flow, T. Carstens, WW1:Feb 70:97:7081
Uses of Models in Resolving Tidal Problems, Henry B. Simmons, HY1:Jan 69:125:6345

Salmon
Cowlitz Salmon Hatchery, Quentin A. Edson and Ray J. Banys, PO1:Jan 71:61:7801

Salmonella
Estuary Water Quality and Salmonella, Francis T. Brezenski, NSCD:71:481
Salmonellae in Fresh Water Pollution, Edwin E. Geldreich and Dale J. Van Donsel, NSCD:71:495

Salt
Agricultural Waste Management, by the Committee on Agricultural Waste Management of the Environmental Engineering Division, Dan M. Wells, Chmn., EE1:Feb 74:1:10317
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
Modification of Convective Clouds in Northern Plains, Martin R. Schock and Arnett S. Dennis, OIDS:72:373
Velocity and Temperature in Buoyant Jet, Richard B. Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975

Saltation
Characteristics of Saltation of Sand Grains by Wind, Yoshito Tsuchiya and Yoshiaki Kawata, CE13:72: II-1617
Successive Saltation of a Sand Grain by Wind, Yoshito Tsuchiya, 12CEC:71:1417

Salt Balance
Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR3:Sept 74:321:10822

Salt Marshes
Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342

Salt Removal
Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3: Mar 72:503:8769
Repairs Delaminated Bridge Decks, Carl F. Crumpton, Bruce F. McCollom and F. Wayne Stratton, CE:Nov 74:55
Salt and Virus Inactivation by Chlorine and High pH, Otis J. Sproul, Robert T. Thorup, David F. Wentworth and James S. Atwell, NSCD:71:385

Salts
Salt and Water Balance in Coachella Valley, California, Charles A. Bower, James R. Spencer and L. O. Weeks, IR1:Mar 69:55:6437
Salt Penetration Technique for Seepage Measurement, Herman Bouwer and R. C. Rice, IR4:Dec 68:481:6304

Salt Tolerance
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR3:Sept 74:321:10822

Salt Water
Hydrography of South Pass, Mississippi River, Lynn D. Wright, WW3:Aug 71:491:8290
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649
Stands for Automation Achieved by Sprinkling, Frank E. Robinson, IR3:Sept 69:385:6774

Salt Water Intrusion
Arrested Wedge in Circular Tube, James J. Sharp and Chung-su Wang, TN: HY7:July 74:1085:10640
Geohydrologic Aspects of Cross-Florida Barge Canal, Glen L. Faulkner, SEA:70:307

Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
Hydrography of South Pass, Mississippi River, Lynn D. Wright, WW3:Aug 71:491:8290
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
Salinity Intrusion Effects in Estuary Shoaling, Donald R.F. Harleman and Arthur T. Ippen, HY1:Jan 69:9:6340
Salt Water Interface During Ground-Water Pumping, Norbert L. Ackermann and Y. Y. Chang, HY2:Feb 71:223:7920
Saltwater Intrusion in the United States, C. B. Sherwood, HY5:Sept 69:1651:6788
Tocks Island Lake Project, Gerald T. McCarthy, EE4:Aug 74:803:10718
Uses of Models in Resolving Tidal Problems, Henry B. Simmons, HY1:Jan 69:125:6345

Samplers
At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Vito A. Vanoni, Chmn., HY12: Dec 70:2417:7781
Depth-Integrating and Dip Samplers, Walter G. Knisel and Ralph W. Baird, HY2:Feb 70:497:7084
Optimization of Urban Air Monitoring Networks, William P. Darby, Paul J. Ossenbruggen and Constantine J. Gregory, EE3:June 74:577:10577

Samples
Improving Manual Solid Waste Separation Studies, Paul W. Britton, SA5:Oct 72:717:9234
Kneading Compaction of Asphalt Beam Specimens, H. Hong, HW2:Nov 68:179:6231
Optimization of Urban Air Monitoring Networks, William P. Darby, Paul J. Ossenbruggen and Constantine J. Gregory, EE3:June 74:577:10577

Sampling
Dredge Spoil Surveillance In Shellfish Areas, George W. Allen and Donald M. Conlon, CEO-II:70:823
Effect of Sampling on Compressibility of Soft Clay, Iraj Noorany and Iraj Poormand, TN: SM12:Dec 73:1184:10189
Field Study of Surathkal Beach, P. Suryaprakasa Rao and P. Kassim, 12CEC:71:1365
In Situ Investigations Of Ocean Sediments, Lloyd Lewis, Vito A. Nacci and James Gallagher, CEO-II:70:641
Instrument for Long-Term Measurement of Suspended Matter (Silt Gauge), Harald Gohren and Hans Laucht, CE13:72:II-1089
Intertidal Communities as Monitors of Pollution, R. T. Oglesby and David Jamison, SA3:June 68:541:6008
Longshore Transport of Suspended Sediment, John C. Fairchild, CE13:72:II-1069
Optimization of Urban Air Monitoring Networks, William P. Darby, Paul J. Ossenbruggen and Constantine J. Gregory, EE3:June 74:577:10577
Rate of Sediment Motion Using Fluorescent Tracer, Abdel-Latif A. Kadib, CE13:72:II-985
Sediment Sampling Efficiency of Slots, Michael Poreh, Abraham Sagiv and Ido Seginer, HY10:Oct 70:2065:7637
Specimen Preparation and Liquefaction of Sands, Richard S. Ladd, TN: GT10:Oct 74:1180:10857
Study of Wave Climate in Nearshore Waters, Steven S. Pawka, WAVES:Sept 74:745
Validity Of Two-Point Method Of Velocity Sampling, Robert P. Apmann, TN: HY10:Oct 70:2171:7575

Sandbars
Characteristics of Waves Broken by a Longshore Bar, E. Clark McNair and Robert M. Sorensen, 12CEC: 71:415
Comparison of Model and Beach Scour Patterns, John B. Herbich, 12CEC:71:1281
Equilibrium Flow Areas of Inlets on Sandy Coasts, Morrough P. O'Brien, WW1:Feb 69:43:6405
Formation of Dunes and Antidunes in Open Channels, Taizo Hayashi, HY2:Feb 70:357:7056
Interaction Of A River With The Coast: Laboratory Simulation, Omar H. Shemdin, CEO-II:70:763
Properties of Longshore Bars in the Great Lakes, James H. Saylor and Edward B. Hands, 12CEC:71: 839
Rio Grande Bar - The Case History of a Lagoon Outlet into a Tideless Sea, V. F. Motta, 12CEC:71: 1243
Some Sand Transport Phenomena on Coasts with Bars, Mogens Dyhr-Nielsen and Torben Sorensen, 12CEC:71:855

Sand Boils
Dewatering Case History in Florida, John H. Schmertmann, CO3:Sept 74:377:10803

Sand Drains
Design of the South Island for the Second Hampton Roads Crossing, David Rafaeli, PES:72:I-361
Finite Difference Analyses for Sand Drain Problems, Roy E. Olson, David E. Daniel and Thomas K. Liu, GT74:June 74:85
Foundation Precompression With Vertical Sand Drains, Stanley J. Johnson, SM1:Jan 70:145:7019
Foundation Precompression with Vertical Sand Drains, Stanley J. Johnson, PISST:71:9
Performance of Embankments with Sand Drains on Sensitive Clay, Charles C. Ladd, Joseph J. Rixner and Douglas G. Gifford, PES:72:I-211
Sand Drain Performance on a San Francisco Bay Mud Site, Edward Margason and Ignacio Arango, PES:72:I-181
Test Fills to Failure on the Soft Bangkok Clay, Ove Eide and Soren Holmberg, PES:72:I-159

Sand Filters
Least Cost Sand Design for Iron Removal, Jerry Y. C. Huang and E. Robert Baumann, SA2:Apr 71: 171:8060
Prediction of Filter Performance, Kou-ying Hsiung and John L. Cleasby, SA6:Dec 68:1043:6270
Removal of Nematodes by Rapid Sand Filtration, Irvine Wen-Tung Wei, Richard S. Engelbrecht and John H. Austin, SA1:Feb 69:1:6384

Sand Filtration
Least Cost Sand Design for Iron Removal, Jerry Y. C. Huang and E. Robert Baumann, SA2:Apr 71: 171:8060
Tertiary Wastewater Treatment-On Its Way, Ben Sosewitz and Vinton W. Bacon, CE:Nov 69:34

Sand Piles
Sand Densification by Piles and Vibroflotation, Carl E. Basore and Joseph D. Boitano, SM6:Nov 69: 1303:6892
Sand Densification by Piles and Vibroflotation, Carl E. Basore and Joseph D. Boitano, PISST:71:203

Sands
Analysis of the Triaxial Test for Granular Soils, Paul R. Paslay and Jay B. Weidler, EM3:June 69:587: 6611
An Analytical Description of the Behavior of Granular Media, Jay B. Weidler and Paul R. Paslay, EM2:Apr 69:379:6491
Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187: 9338
Artificial Nourishment of Copacabana Beach, Daniel Vera-Cruz, CE13:72:II-1451
Aswan High Dam: Rockfill Built Under Water, Taher Abu-Wafa and Aziz H. Labib, CE:Aug 71:64
Axial Stress-Strain Characteristics of Sand, Herbert Breth, Ernst Schuster and Prabhakar J. Pise, SM8: Aug 73:617:9919
Bearing Capacity of Foundation on Sand, Assad Abdul-Baki and Lewis A. Beik, SM2:Mar 70:545: 7158
Behavior of Bored Piles in Sand, Fadlo T. Touma and Lymon C. Reese, GT7:July 74:749:10651

Behavior of Dry Sands under Cyclic Loading, D. H. Timmerman and Tien H. Wu, SM4:July 69:1097:6698

Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71:1675:8577

Bentonite Sealing Methods Compared in the Field, Myron B. Rollins and Anthony S. Dylla, IR2:June 70:193:7379

Calculated Sand Fills and Groin Systems, John Simpson Hale, CE13:72:II-1385

Characteristics of Saltation of Sand Grains by Wind, Yoshito Tsuchiya and Yoshiaki Kawata, CE13:72:II-1617

Coastal Sand Management System, Birchard M. Brush, CE13:72:II-1503

Coastline Changes Near a Tidal Inlet, Emmanuel Partheniades and James A. Purpura, CE13:72:II-843

Compaction of Sands By Repeated Shear Straining, T. Leslie Youd, SM7:July 72:709:9063

Comparison of Plane Strain and Triaxial Tests on Sand, Kenneth L. Lee, SM3:May 70:901:7276

Comparison of Stress-Dilatancy Theories, George J. W. King and Edward A. Dickin, SM5:Sept 70:1697:7516

Control of Sediment Flow Into Subsurface Drains, Om P. Gulati, Glenn O. Schwab and Ronald C. Reeve, IR4:Dec 70:437:7751

Crater-sink Sand Transfer System, Douglas L. Inman and Roland W. Harris, 12CEC:71:919

Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793:10057

Deformation of Sand at Failure, Hon-Yim Ko and Ronald F. Scott, SM4:July 68:883:6028

Deformation of Sand in Shear, Hon-Yim Ko and Ronald F. Scott, SM5:Sept 67:283:5470

Densification and Shear of Sand During Vibration, T. Leslie Youd, SM3:May 70:863:7272

Design Method for Vertical Anchor Slabs in Sand, N. Krebs Ovesen and Helle Stromann, PES:72:I-1481

Drained Strength Characteristics of Sands, Kenneth L. Lee and H. Bolton Seed, SM6:Nov 67:117:5561

Dynamic Prestraining of Dry Sand, Vincent P. Drnevich and Frank E. Richart, Jr., SM2:Mar 70:453:7160

Dynamic Shearing Resistance of Dry Ottawa Sand, Kenan Atakol and H. Gordon Larew, SM2:Mar 70:705:7186

Earthquake Induced Settlements in Saturated Sands, Kenneth L. Lee and Aurelio Albaisa, GT4:Apr 74:387:10496

Effect of Flume Width on Bed-Form Characteristics, Maurice J. Crickmore, HY2:Feb 70:473:7077

Effect of Particle Characteristics on Wave Velocity, Raymond J. Krizek, Francis G. McLean and Max W. Giger, TN: GT1:Jan 74:89:10254

Effects of Vibroflotation on Clayey Sands, Desmond L. Webb and R. Ian Hall, SM6:Nov 69:1365:6882

Effects of Vibroflotation on Clayey Sands, Desmond L. Webb and R. Ian Hall, PISST:71:393

Elastic Behavior of Sand, Mohamed A. El-Sohby, SM6:Nov 69:1393:6916

Empirical Damping Constants for Sands and Clays, Harry M. Coyle and Gary C. Gibson, SM3:May 70:949:7296

Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198

Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980

Field Study of a Tidal Inlet, Bimini, Bahamas, W. Harrison, R. J. Byrne, J. D. Boon, III and R. W. Moncure, 12CEC:71:1201

Finite Difference Analyses for Sand Drain Problems, Roy E. Olson, David E. Daniel and Thomas K. Liu, GT74:June 74:85

Forms of Erosion and Accretion on Cape Cod Beaches, Victor Goldsmith, Joseph M. Colonell and Peter N. Turbide, CE13:72:II-1277

Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708

Investigations into Control of Seepage, Walter G. Brusey, IMROD:Sept 73:616

Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3:Mar 72:489:8765

Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592

Maintenance of Bicycle Facilities - An Overview, Thomas A. Gawley and Walter H. Kraft, BP73:Dec 73:143

Membrane Penetration in Triaxial Tests on Sands, Vegesna S. Raju and Sekanoor K. Sadasivan, TN: GT4:Apr 74:482:10454

Model Study of Passive Pressure in Sand, Jagdish Narain, Swami Saran and P. Nandakumaran, SM4:July 69:969:6655

Movement of Sand in Tunnels, Dagfinn K. Lysne, HY6:Nov 69:1835:6880

New Method for Deep Sand Vibratory Compaction, Robert D. Anderson, CO1:Mar 74:79:10429

Numerical Design-Analysis for Piles in Sands, Chandrakant S. Desai, GT6:June 74:613:10617

Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125

Performance of Foundation for Altair Radar, Robert V. Whitman, Dirk R. Casagrande, Kjell Karlsrud and Richard M. Simon, SM1:Jan 71:1:7809

Phase Dependent Roughness Control of Sand Movement, Douglas L. Inman and Edward B. Tunstall, CE13:72:II-1155

Pile-Driving Formulas For Friction Piles in Sand, Roy E. Olson and Kaare S. Flaate, SM6:Nov 67:279:5604

Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59:9844

A Preload of Silty Fine Sand, Warren L. Schroeder and Edward G. Worth, PES:72:I-379

Processing and Analysis of Radioisotopic Sand Tracer (RIST) Study Data, H. R. Brashear, E. H. Acree, F. N. Case, P. A. Turner and David B. Duane, 12CEC:71:821

Sand Compaction by Vibroflotation at Cape May, New Jersey, Robert J. Westberg and Herbert O. Ireland, PES:72:I-1037

Sand Compaction with Vibratory Rollers, David J. D'Appolonia, Robert V. Whitman and Elio E. D'Appolonia, SM1:Jan 69:263:6366

Sand Liquefaction In Triaxial and Simple Shear Tests, W. D. Liam Finn, Dennison J. Pickering and Peter L. Bransby, SM4:Apr 71:639:8039

Sand Liquefaction Under Cyclic Loading Simple Shear Conditions, William H. Peacock and H. Bolton Seed, SM3:May 68:689:5957

Sand Movement Measurement Near Anchor Plates, Robert W. Carr and Thomas H. Hanna, TN: SM5:May 71:833:8087

Scale and Boundary Effects in Foundation Analysis, James Graham and John Gordon Stuart, SM11:Nov 71:1533:8510

Scale Effect for Shallow Footings on Dense Sand, Pierre A. Habib, TN: GT1:Jan 74:95:10254

Sealing Sands with Waterborne Bentonite, Myron B. Rollins, IR4:Dec 67:25:5640

Seepage Force on Interfacial Bed Particles, C. Samuel Martin and Mustafa M. Aral, HY7:July 71:1081:8239

Settlement Histories of Four Large Tanks on Sand, Melvin T. Davisson and James R. Salley, PES:72:I-981

Settlement of a Large Mat on Sand, Joseph A. Fischer, James T. Dette and Harcharan Singh, PES:72:I-997

Settlement of Building on Pile Foundation in Sand, Robert M. Koerner and Antal Partos, GT3:Mar 74:265:10405

Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72: 381:8844

Settlement of Pile Foundations in Granular Soil, Gerald A. Leonards, PES:72:I-1169

Settlement of Spread Footings on Sand, David J. D'Appolonia, Elio E. D'Appolonia and Richard F. Brissette, SM3:May 68:735:5959

Simplified Procedure for Evaluating Soil Liquefaction Potential, H. Bolton Seed and Izzat M. Idriss, SM9: Sept 71:1249:8371

Skin Friction For Steel Piles in Sand, Harry M. Coyle and Ibrahim H. Sulaiman, SM6:Nov 67:261: 5590

Some Experiments with Sand-filled Flexible Tubes, Per Roed Jakobsen and Arne Hasle Nielsen, 12CEC:71:1513

Some Sand Transport Phenomena on Coasts with Bars, Mogens Dyhr-Nielsen and Torben Sorensen, 12CEC:71:855

Specimen Preparation and Liquefaction of Sands, Richard S. Ladd, TN: GT10:Oct 74:1180:10857

Standard Penetration Test for Sand Denseness, Harold J. Gibbs, 4PCSM:71:II27

Static Cone to Compute Static Settlement Over Sand, James K. Mitchell, SM3:May 70:1011:7302

Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358

Stress Analysis of Contractive or Dilative Soil, Ian M. Smith and Stephen Kay, SM7:July 71:981:8263

Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72: 13:8625

A Study of Bulk and Shear Moduli of a Sand, Leonard Domaschuk and Neil H. Wade, SM2:Mar 69:561:6461

Subsidence of Sand Due to Surface Vibration, William F. Brumund and Gerald A. Leonards, SM1:Jan 72:27:8648

Successive Saltation of a Sand Grain by Wind, Yoshito Tsuchiya, 12CEC:71:1417

Synoptic Observations of Sand Movement, David B. Duane, 12CEC:71:799

Test Procedures for Measuring Soil Liquefaction Characteristics, H. Bolton Seed and William H. Peacock, SM8:Aug 71:1099:8330

Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134

Undrained Strength of Anisotropically Consolidated Sand, Kenneth L. Lee and H. Bolton Seed, SM2: Mar 70:411:7136

The Vertical Holding Capacity of Marine Anchors In Sand, Stanley M. Bemben and Edward H. Kalajian, CEO-II:70:117

Vibratory Densification of Damp Clayey Sands, Raymond J. Krizek and Jose I. Fernandez, SM8: Aug 71:1069:8320

Volume Changes in Triaxial and Plane Strain Tests, W. D. Liam Finn, Neil H. Wade and Kenneth L. Lee, SM6:Nov 67:297:5611

Yielding of Sand in Plane Strain, Sam Frydman, GT5:May 74:491:10540

Sandstone

Strength Versus Energy Dissipation in Sandstone, Michael K. McCarter and John E. Willson, RM14: 73:223

Sand Waves

Determination of Kennedy's Parameter j for Dunes, Mehmet Selim Yalin, TN: HY8:Aug 73:1287:9910

Initial Instability of Fine Bed Sand, Anthony J. Grass, HY3:Mar 70:619:7139

Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72: 1057:8952

Initiation of Ripples on Flat Sediment Beds, Philip B. Williams and Patrick H. Kemp, HY4:Apr 71:505: 8042

Sandwich Laminates

Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248

Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau-Kai Cheung, EM5:Oct 72: 1225:9233

Sandwich Panels

Cosserat Surface and Sandwich Shell Equilibrium, David J. Malcolm and Peter G. Glockner, EM5: Oct 72:1075:9240

Face Wrinkling of Sandwich Plates and Cylinders, Yau-Cheung Wong and Peter George Hoadley, EM4:Aug 71:1071:8281

Failure Modes of Folded Sandwich Panel Roofs, Paul P. Fazio, ST5:May 72:1085:8913

Finite Element Analysis Of Skew Sandwich Plates, Gerard R. Monforton and Mofreh G. Michail, TN: EM3:June 72:763:8931

Finite Element Method for Elastic Plastic Plates, Ted B. Belytschko and Milan Velebit, EM1:Feb 72:227: 8724

Flexural Wrinkling in Foam-Filled Sandwich Panels, Ken P. Chong and John A. Hartsock, EM1:Feb 74: 95:10370

Optimal Multifactor Design Procedure for Sandwich Panels, Chester P. Smolenski and Edward M. Krokosky, ST4:Apr 70:823:7243

Sandwich Structures

Bending of Clamped Orthotropic Sandwich Plates, G. Michael Folie, EM3:June 70:243:7340

Circular Sandwich Plates Under Eccentric Load, Jao-Shiun Kao, EM1:Feb 69:235:6413

Lagrangian Formulation of Sandwich Shell Theory, Peter G. Glockner and David. J. Malcolm, EM3: June 73:445:9775

Local Failure of Plastic-Foam Core Sandwich Panels, Billy J. Harris and Gene M. Nordby, ST4:Apr 69: 585:6494

Nonlinear Buckling Analysis of Sandwich Arches, Parviz Sharifi and Egor P. Popov, EM5:Oct 71: 1397:8417

Nonlinear Sandwich Shell and Cosserat Surface Theory, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1183:9244

Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323

Sandwich Plate Structure Analysis by Finite Element, Paul P. Fazio and Kinh H. Ha, ST6:June 74:1243: 10593

Stiffness Matrix for Sandwich Folded Plates, G. Michael Folie, ST2:Feb 71:603:7925

San Francisco

Field Test of Debris Fill Over Soft Soil, Henry T. Taylor and Albert L. Buchignani, PES:72:I-395

Final Report--Comprehensive Study of San Francisco Bay--Summary Conclusions and Recommendations, prepared by University of California, Berkeley, Division of Hydraulic and Sanitary Engineering (Book Review), Arthur J. Inerfield, CE:Mar 72:15

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Sand Drain Performance on a San Francisco Bay Mud Site, Edward Margason and Ignacio Arango, PES:72:I-181

San Francisco BCDC Revisited, E. Jack Schoop, CE: Apr 73:71

Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008

Union Bank, Welton Becket and Associates, TB:73: C-P-326

100 Pine Street, Hertzka & Knowles, TB:73:C-P-394

Sanitary Engineering

Activated Sludge ATP: Effects of Environmental Stress, Patrick L. Brezonik and James W. Patterson, SA6:Dec 71:813:8581

Adsorption of Pesticides by Clay Minerals, Ju-Chang Huang and Cheng-Sun Liao, SA5:Oct 70:1057:7603

Aeration System for Large Navigable Rivers, William Whipple, Jr. and Shaw L. Yu, SA6:Dec 71:883: 8601

Aerator Performance in Natural Streams, Shaw L. Yu, SA5:Oct 70:1099:7601
Aerobic and Anaerobic Landfill Stabilization Process, Ralph Stone and Rishab K. Gupta, SA6:Dec 70:1399:7766
Agglomerate Size Changes in Coagulation, Robert K. Ham and Russell F. Christman, SA3:June 69:481:6605
Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
Algal Reactor For Life Support Systems, Gedalia Shelef, William J. Oswald and Percy H. McGauhey, SA1:Feb 70:91:7105
Ammonia Nitrogen Losses from Streams, Frank E. Stratton, SA6:Dec 68:1085:6282
Analog Simulation of Activated Sludge Systems, Carl E. Burkhead and Don J. Wood, SA3:June 69:593:6631
Analysis of Equalization Basins, Alfred T. Wallace, SA6:Dec 68:1161:6310
Analysis of Orthotropic Steel Plate Bridge Decks, Graham H. Powell and David W. Ogden, ST5:May 69:909:6563
Analysis of Water Temperature Variations in Large River, Veerasamy Kothandaraman, SA1:Feb 71:19:7908
Analytic and Process Classification of Effluents, T. Helfgott, J. V. Hunter and D. Rickert, SA3:June 70:779:7374
Analyzing Steam Electric Power Plant Discharges, John Eric Edinger and John C. Geyer, SA4:Aug 68:611:6064
Atmospheric Oxygenation in a Simulated Stream, Willie P. Isaacs and Anthony F. Gaudy, Jr., SA2:Apr 68:319:5905
Automatic Water and Waste Treatment Plants in Operation, Ralph Stone and E. T. Conrad, CE:May 70:37
Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
Bacterial Dieoff in Ponds, Ernst M. Davis and Earnest F. Gloyna, SA1:Feb 72:59:8714
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
Basin Tracer Curves Interpreted by Basic Analytics, A. Adler Hirsch, SA6:Dec 69:1031:6951
Batch Adsorption Kinetics in Sewage--Activated Carbon, Jeffrey S. Hsieh, Raffi M. Turian and Chi Tien, SA4:Aug 71:505:8339
Biokinetic Evaluation of BOD Concepts and Data, William E. Gates and Sambhunath Ghosh, SA3:June 71:287:8184
Biological Effects on Sediment-Water Nutrient Interchange, Donald B. Porcella, James S. Kumagai and E. Joe Middlebrooks, SA4:Aug 70:911:7460
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71:617:8425
Burying Your Pickle Liquor Disposal Problem, D. R. Smith, CE:Nov 69:37
Can Engineering Forecasters Effect Water Law?, George W. Reid, E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329
Characterization of Settling Tanks by Eddy Diffusio4, Hassan M. El-Baroudi, SA3:June 69:527:6618
Characterization of Time-Varying Organic Loads, Alfred T. Wallace and Donald M. Zollman, SA3:June 71:257:8167
Character of Sludge Drying, J. Charles Jennett and Israel W. Santry, Jr., SA5:Oct 69:849:6833
Chemistry of N and Mn in Cox Hollow Lake, Wis., Following Destratification, Patrick L. Brezonik, Joseph J. Delfino and G. Fred Lee, SA5:Oct 69:929:6850
Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, SA5:Oct 71:647:8433
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
Clay Slurry Sorption of Carrier-Free Radiocations, William A. Goldsmith and W. Emmett Bolch, SA5:Oct 70:1115:7611
Clean Air Management in Allegheny County, Pa., Edward L. Stockton, SA5:Oct 70:1211:7609
Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812
Coliform-Fecal Coliform Bacteria in Tidal Waters, Gerald A. Strobel, SA4:Aug 68:641:6068
Combined Sewer Considerations by Philadelphia, Carmen F. Guarino, Joseph V. Radziul and William L. Greene, SA1:Feb 70:1:7050
Compost for Agricultural Land, Cord Tietjen and Samuel A. Hart, SA2:Apr 69:269:6506
Comprehensive Public Water Supply Planning, Anthony Pavone, SA5:Oct 71:745:8450
Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85
Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578
Computer Design of CMAS Systems, Daniel W. Smith, SA4:Aug 70:977:7474
Concepts and Utilities of Ecologic Model, Carl W. Chen, SA5:Oct 70:1085:7602
Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, Miroslaw Gorczyca, SA6:Dec 72:987:9458
Contamination of Oysters by Pesticides, Donald R. Rowe, Larry W. Canter and J. W. Mason, SA5:Oct 70:1221:7619
Control of Bacterial Growths in Rapid Sand Filters, John T. O'Connor and Kalyanpur Y. Baliga, SA6:Dec 70:1377:7767
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434
Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
Decentralized Solid Waste Collection Facilities, Robert M. Clark and Billy P. Helms, SA5:Oct 70:1035:7594
Demonstration Sanitary Landfill in Kansas City, Kans., Gerald A. Neely and Nicholas S. Artz, CE:Oct 72:72
Design and Economics of Joint Wastewater Treatment, W. Wesley Eckenfelder, Jr., SA1:Feb 72:153:8746
Design and Operation Model of Activated Sludge, Joseph H. Sherrard and Alonzo W. Lawrence, EE6:Dec 73:773:10220
Design Capacities to Accommodate Forecast Uncertainties, Paul M. Berthouex and Lawrence B. Polkowski, SA5:Oct 70:1183:7633
Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051
Design of Sludge Digestion Tanks, Richard D. Pomeroy, SA5:Oct 68:769:6137
Design of U-Tube Aeration Systems, Richard E. Speece and Rudolph Orosco, SA3:June 70:715:7348
Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191
Design Principles of Waste Stabilization Ponds, D. Thirumurthi, SA2:Apr 69:311:6515
Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72:937:9401
Destruction of Bacteria and Viruses in Seawater, Ralph Mitchell, SA4:Aug 71:425:8299
Developments in Water System Network Design, V. Raman, SA5:Oct 70:1249:7612
Dialysis Separation of Sewage Sludge Digestion, Mark J. Hammer and Jack A. Borchardt, SA5:Oct 69:907:6845
Difference Modeling of Stream Pollution, David A. Bella and William E. Dobbins, SA5:Oct 68:995:6192

Diffusion of Sewage Effluent from Ocean Outfall, Robert E. Stewart, Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, SA4:Aug 71:485:8340

Digestion: Concentration-Loading-Time Limits, Ralph H. Clark and V. Darryl Orr, TN: SA5:Oct 72:809:9229

Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472

Dispersion Conduits, Thomas R. Camp and S. David Graber, SA1:Feb 68:31:5781

Dissolved Oxygen Variations in Stratified Lakes, David A. Bella, SA5:Oct 70:1129:7628

Distribution of Pesticides in California, Thomas E. Bailey and John R. Hannum, SA5:Oct 67:27:5510

Division name change, CE:Sept 72:112

Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697

Drainage and Pollution from Beef Cattle Feedlots, Raymond C. Loehr, SA6:Dec 70:1295:7726

Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100

Drying of Sand-Digested Sludge Mixtures, Martin E. Harper and Brian W. Mar, SA2:Apr 70:381:7222

Dynamic Model of the Anaerobic Digestion Process, John F. Andrews, SA1:Feb 69:95:6418

Ecological Importance Of Temporal Variations, David A. Bella, TN: SA4:Aug 72:685:9084

Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537

Economic Measure of Effect of Extreme Data, Myron B. Fiering, SA4:Aug 69:683:6720

Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856

Effect Of Flocculation On Activated Sludge Settling Behavior, George A. Farnworth and Richard I. Dick, TN: SA5:Oct 72:812:9229

Effect of Urbanization on Storm Water Peak Flows, Pedro C.C. DaCosta, SA2:Apr 70:187:7198

Effects of Dispersion on DO-sag in Uniform Flow, Wen-Hsiung Li, SA1:Feb 72:169:8743

Effects of Temperature on Stream Aeration, Ivan Metzger, SA6:Dec 68:1153:6309

Effects of Viscous Sublayer on Dispersion, Chin-lien Yen, SA6:Dec 69:1105:6971

Efficiency of Refuse Collection Crews, Jimmie E. Quon, Robert R. Martens and Masaru Tanaka, SA2:Apr 70:437:7232

Effluent Disposal in South San Francisco Bay, John A. Lager and George Tchobanoglous, SA2:Apr 68:213:5891

Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589

Energy Concepts of Aerobic Microbial Metabolism, Carl E. Burkhead and Ross E. McKinney, SA2:Apr 69:253:6505

Engineering Aspects of Wastewater Contracts, Samuel I. Zack, SA3:June 69:465:6602

Engineering Considerations in Disinfection, Robert J. Baker, NSCD:71:683

Engineering Evaluation of Virus Hazard in Water, by the Committee on Environmental Quality Management of the Sanitary Engineering Division, Bernard B. Berger, Chmn., SA1:Feb 70:111:7112

Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974

Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811

Environmental Effects of Oil Pollution, Thomas A. Murphy, SA3:June 71:361:8221

Environmental Health and Community Planning, Joseph A. Salvato, Jr., UP1:Aug 68:23:6084

Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994

Environmental Protection for Nuclear Applications, Dade W. Moeller and Abraham S. Goldin, SA3:June 69:373:6589

Environmental Protection-TVA Experience, Francis E. Gartrell and James C. Barber, SA6:Dec 70:1321:7761

Environnental Effects of Overboard Spoil Disposal, Robert B. Biggs, SA3:June 68:477:5979

Estimating Eutrophic Potential of Pollutants, Dee Mitchell and James C. Buzzell, Jr., SA4:Aug 71:453:8333

Estimation of Sludge Centrifuge Performance, P. Aarne Vesilind, SA.3:June 70:805:7378

Estuarine Oxygen Resources-Photosynthesis and Reaeration, Thomas E. Bailey, SA2:Apr 70:279:7215

Estuarine Water Quality Management, Richard L. Rosenberger and Raymond Walsh, SA05:Oct 68:913:6164

Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735

Evaluation of Anaerobic Denitrification Processes, Daniel F. Seidel and Ronald W. Crites, SA2:Apr 70:267:7211

Evaluation of Nitrification in Streams, Chester T. Wezenak and John J. Gannon, SA5:Oct 68:883:6159

Evaluation of Some Stabilization Ponds in India, R. H. Siddiqi and B. K. Handa, SA1:Feb 71:91:7912

An Evaluation of the Bachelor of Technology Program, C. Kenneth Myers, CEE:Feb 74:1-239

Examination of the Thermocline, John C. Sonnichsen, Jr. and Clarence A. Oster, SA2:Apr 70:353:7219

Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177:9794

Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408

Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901

Fate of Thermally Polluted Surface Water in Rivers, Cheng-Lung Chen, SA3:June 71:311:8197

Feasibility of Improved Subsurface Disposal, Ronald A. Popkin and Thomas W. Bendixen, SA2:Apr 68:271:5899

The Federal Solid Wastes Disposal Program, Richard D. Vaughan, CE:Feb 69:69

Filter Backwashing Tests and Upflow Equalization, A. Adler Hirsch, SA1:Feb 68:129:5813

Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965

Filtration of Chlorella Through Dune-Sand, Yair Folkman and Alberto M. Wachs, SA3:June 70:675:7332

Filtration of Treated Sewage Effluent, George Tchobanoglous and Rolf Eliassen, SA2:Apr 70:243:7210

Filtration Through a Trimedia Filter, Alan E. Rimer, SA3:June 68:521:6014

Financing Municipal Solid Waste Management Systems, Robert M. Clark and Richard O. Toftner, SA4:Aug 70:885:7449

Finite-Difference Convection Errors, David A. Bella and William J. Grenney, SA6:Dec 70:1361:7744

Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, SA1:Feb 72:11:8703

Fleet Selection for Solid Waste Collection Systems, Robert M. Clark and Billy P. Helms, SA1:Feb 72:71:8720

Floc Breakup in Turbulent Flocculation Processes, Denny S. Parker, Warren J. Kaufman and David Jenkins, SA1:Feb 72:79:8702

Fluorometer Calibration Curves and Nomographs, Thomas A. Butts, SA4:Aug 69:705:6728

Forecasting Water Demands and Systems Capabilities, Wyndham J. Roberts, Sandor C. Csallany and Neil G. Towery, SA6:Dec 70:1349:7745

Forecasts with Varying Reliability, Myron B. Fiering, SA3:May 69:629:6638

Graphic Dissolved Oxygen Computation, Neal P. Dixon, CE:Mar 71:60

Ground Water Recharge Design for Renovating Waste Water, Herman Bouwer, SA1:Feb 70:59:7096

Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851

Hydraulically Ventilated Underground Filter, David K. Hills and Ray B. Krone, SA6:Dec 71:851:8596

Hydraulic Control for Flow Distribution, Kuan M. Yao, SA2:Apr 72:275:8808

Hydraulic Design of Self-Cleaning Sewage Tunnels, Dagfinn K. Lysne, SA1:Feb 69:17:6404

Hydrolysis of Lipids in Wastewater, Gary R. Kramer, SA5:Oct 71:731:8418

Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469

Improving Manual Solid Waste Separation Studies, Paul W. Britton, SA5:Oct 72:717:9234

Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5:Oct 71:661:8419

Information Sources on Water Quality, Including Thermal Pollution, Fred A. Limpert, Chmn., SA3:June 72:569:8987

In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62

Instream Aerators for Polluted Rivers, William Whipple, Jr., Francis P. Coughlan, Jr. and Shaw L. Yu, SA5:Oct 70:1153:7631

Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590

Intertidal Communities as Monitors of Pollution, R. T. Oglesby and David Jamison, SA3:June 68:541:6008

Investigation of a Wood Curing Waste, Vernon L. Stump and Franklin J. Agardy, SA6:Dec 69:1051:6953

Iron Removal Using Magnesium Oxide, John T. O'Connor and Barrett E. Benson, SA6:Dec 70:1335:7740

Kinetic Analysis of Data from Biological Systems, Robert L. Irvine and Donald J. Schaezler, SA4:Aug 71:409:8323

Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727

Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205

Lagoon Disposal Of Water Treatment Plant Wastes, Paul H. King, Walter S. Medding and Clifford W. Randall, TN: SA4:Aug 70:1031:7445

Lagoons for Military Sewage Treatment in South Vietnam, David M. Duttweiler and John A. Burgh, CE:May 69:47

Leaching of Pollutants From Refuse Beds, Syed R. Qasim and Jerry C. Burchinal, SA1:Feb 70:49:7078

Least Cost Sand Design for Iron Removal, Jerry Y. C. Huang and E. Robert Baumann, SA2:Apr 71:171:8060

Lignosulphonates in Lake Paijanne Water, Seppo Priha, SA2:Apr 71:191:8021

Loading Rates on Waste Stabilization Ponds, Larry W. Carter, Andrew Englande, Jr. and Alfred F. Mauldin, Jr., SA6:Dec 69:1117:6975

Longitudinal Mixing in Spiral Flow Aeration Tanks, Keith L. Murphy and Boris I. Boyko, SA2:Apr 70:211:7200

Low-Flow Criteria for Stream Standards, William C. Ray and William R. Walker, SA3:June 68:507:6005

Low Temperature Activated Sludge Settling, Sherwood C. Reed and R. Sage Murphy, SA4:Aug 69:747:6747

Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253

Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830

Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, SA6:Dec 70:1387:7769

Mass Transfer Limitations in Substrate Removal, C. Robert Baillod and William C. Boyle, SA2:Apr 70:525:7239

Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712

Measuring Subsurface Spring Flow With Radiotracers, William C. Galegar and Myron W. DeGeer, SA6:Dec 69:1097:6973

Mixed Liquor Solids Separation by Flotation, Michael C. Mulbarger and Donald D. Huffman, SA4:Aug 70:861:7447

Model for Flow Augmentation Analysis-An Overview, George R. Grantham, Edwin E. Pyatt, James P. Heaney and Buford J. Carter, Jr., SA5:Oct 70:1045:7578

Model of Natural Draft Cooling Tower Performance, Lawrence D. Winiarski and Bruce A. Tichenor, SA4:Aug 70:927:7461

Monte Carlo Simulation of Industrial Waste Discharges, Paul M. Berthouex and Linfield C. Brown, SA5:Oct 69:887:6836

New Approaches to Wastewater Treatment, Robert L. Stenburg, John J. Convery and Charles L. Swanson, SA6:Dec 68:1121:6296

Nitrification Rate in Biological Processes, Ching-San Huang and Ninnian E. Hopson, EE2:Apr 74:409:10462

Nitrogen Removal By Modified Activated Sludge Process, Srinivasalu Balakrishnan and W. Wesley Eckenfelder, Jr., SA2:Apr 70:501:7236

Nitrogen Transformation in Activated Sludge Treatment, Jerzy Ganczarczyk, SA3:June 71:247:8163

Numerical Solution of Filtration Equations, Arun K. Deb, SA2:Apr 70:195:7199

Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414

Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403

Optimal Reservoir Releases for Water Quality Control, Norbert A. Jaworski, Walter J. Weber, Jr. and Rolf A. Deininger, SA3:June 70:727:7361

Optimal Routing of Refuse Collection Vehicles, Richard M. Bodner, E. Alan Cassell and J. Peter Andros, SA4:Aug 70:893:7451

Optimal Water Quality Management for Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, SA1:Feb 72:195:8715

Optimization in Design of Hydraulic Network, Arun K. Deb and Asok K. Sarkar, SA2:Apr 71:141:8032

Optimization of the Ion Flotation of Dichromate, Robert B. Grieves, Gregory A. Ettelt, J. Thomas Schrodt and Dibakar Bhattacharyya, SA3:June 69:515:6610

Oxidation of Sulfide by O_2: Catalysis and Inhibition, Kenneth Y. Chen and J. Carrell Morris, SA1:Feb 72:215:8710

Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701

Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841

Oxygen Relationships in Intermittent Sand Filtration, Albert B. Pincince and Jack E. McKee, SA6:Dec 68:1093:6295

Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938

Package Plants-Past, Present and Future, Brian L. Goodman, CE:Feb 69:62

Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440

Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72:927:9443

Phosphate Release in Activated Sludge Process, Clifford W. Randall, Duane W. Marshall and Paul H. King, SA2:Apr 70:395:7223

Phosphate Removal at Baltimore, Maryland, Marion R. Scalf, Fred M. Pfeffer, Lawrence D. Lively, Jack L. Witherow and Charles P. Priesing, SA5:Oct 69:817:6817

Phosphate Removal: Summary of Papers, Milton Spiegel and Tom H. Forrest, SA5:Oct 69:803:6807

Photosynthesis and Oxygen Balance in Streams, Donald J. O'Connor and Dominic M. Di Toro, SA2:Apr 70:547:7240

Physical Behavior of Flocculent Suspensions in Upflow, James C. Brown and Enrique LaMotta, SA2:Apr 71:209:8054

Pilot Plant Testing for Municipal Sewage Treatment, Robert C. Moore, SA2:Apr 70:573:7242

Plastic Relining of Small-Diameter Pipes, Raymond M. Brenner, SA2:Apr 70:297:7216

Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821

Polyethylene Pipe Used For 36-in. Sewage Outfall, CE:Oct 72:58

Potable Water Availability on Long Oceanic Islands, Eugene W. Rochester, Jr. and George J. Kriz, SA5:Oct 70:1235:7627

Predicting Effects of Dead Zones on Stream Mixing, Edward L. Thackston and Karl B. Schnelle, Jr., SA2:Apr 70:319:7218

Prediction Equation for Reaeration in Open-Channel Flow, Y. Lam Lau, TN: SA6:Dec 72:1063:9398

Prediction of Filter Performance, Kou-ying Hsiung and John L. Cleasby, SA6:Dec 68:1043:6270

Preliminary Design of Wastewater Treatment Systems, Robert Smith, SA1:Feb 69:117:6426

Probabilistic Variations in Ultimate First Stage BOD, Veerasamy Kothandaraman, SA1:Feb 70:27:7054

Problems Associated with Planning BOD Experiments, Paul M. Berthouex and William G. Hunter, SA3:June 71:333:8202

Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430

Problems of Toxicity Measurements in Activated Sludge, Ludwig Hartmann and Gerhard Laubenberger, SA2:Apr 68:247:5894

Processing and Recovery of Municipal Solid Waste, Robert F. Testin and Neil L. Drobny, SA3:June 70:699:7345

Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153

Professional Papers in Sanitary Engineering, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237

Program for Water-Pollution Control in Maryland, Andrew Heubeck, Jr., James B. Coulter, Paul W. McKee, James J. O'Donnell and Donald W. Pritchard, SA2:Apr 68:283:5900

Public Health Factors in Reactor Site Selection, J. G. Terrill, C. L. Weaver, E. D. Harward and J. M. Smith, SA3:June 69:545:6620

Public Health Service Solid Wastes Program, Richard D. Vaughan and Ralph J. Black, SA2:Apr 69:233:6500

Rationale of Standards for Use of Reclaimed Water, Herbert B. Foster, Jr. and William F. Jopling, SA3:June 69:503:6609

Rational Multivariate Algal Growth Kinetics, E. Joe Middlebrooks and Donald B. Porcella, TN: SA1:Feb 71:135:7859

Reaeration Measurements in an Estuarn, David W. Juliano, SA6:Dec 69:1165:6987

Recent Approaches for Trickling Filter Design, John M. Baker and Quintin B. Graves, SA1:Feb 68:65:5798

Recent Paper Industry Waste Treatment Systems, William J. Gillespie, SA2:Apr 70:467:7234

Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437

Removal of Nematodes by Rapid Sand Filtration, Irvine Wen-Tung Wei, Richard S. Engelbrecht and John H. Austin, SA1:Feb 69:1:6384

Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956

Research Needs in Sanitary Engineering, Jack M. Betz, Chmn., SA2:Apr 72:299:8833

Residue Characterizations, Robert J. Schoenberger and Paul W. Purdom, SA3:June 69:387:6590

Response of Activated Sludge to Organic Transient Loadings, Carl E. Adams, Jr. and W. Wesley Eckenfelder, Jr, SA2:Apr 70:333:7205

Review of "A Strategy for a Livable Environment", Bernard B. Berger, Chmn., SA6:Dec 67:171:5689

Role of Activated Sludge Final Settling Tanks, Richard I. Dick, SA2:Apr 70:423:7231

Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293

Sample Weights in Solid Waste Composition Studies, Albert J. Klee and Dennis Carruth, SA4:Aug 70:945:7469

Sanitary Landfills: The Latest Thinking, CE:Mar 73:69

Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51

Scaling Methods for Surface Aerators, George Maise, SA5:Oct 70:1079:7605

Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280

Septic Tank Systems, Joseph A. Cotteral, Jr. and Dan P. Norris, SA4:Aug 69:715:6735

Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Sewage Treatment System Odors and Air Pollutants, Ralph Stone, SA4:Aug 70:905:7456

Sewerage and Sewage Treatment: State-of-the-Art Abstracts, Ralph Stone, Chmn, SA1:Feb 70:35:7074

Sewerage and Sewage Treatment: State-of-the-Art Abstracts, Ralph Stone, Chmn., SA4:Aug 70:991:7477

Shearing Effects On Settling of Activated Sludge, Richard A. Bradley and Ray B. Krone, SA1:Feb 71:59:7926

Simulation Model of Refuse Collection Policies, Jimmie E. Quon, Masaru Tanaka and Stephen J. Wersan, SA3:June 69:575:6626

Simulation Model of Urban Refuse Collection, Marcus M. Truitt, Jon C. Liebman and Cornelius W. Kruse, SA2:Apr 69:289:6508

Simulation of Ammonia Stripping from Wastewater, Joseph F. Roesler, Robert Smith and Richard G. Eilers, SA3:June 71:269:8182

Sixty Years of Rock Tunneling in Chicago, Milton Pikarsky, CO2:Nov 71:189:8504

Solidification of Sludges with Portland Cement, E. Alan Cassell and Thomas W. Walker, SA1:Feb 70:15:7053

Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72:1021:9430

Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739

Statistical Assessment of DO in Navigation Pool, Thomas A. Butts, Donald H. Schnepper and Ralph L. Evans, SA2:Apr 70:477:7235

Statistical Experimental Design: BOD Tests, Paul M. Berthouex and William G. Hunter, SA4:Aug 71:393:8286

Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093

St. Louis Powerplant Burns City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30

Stochastic Model for BOD and DO in Estuaries, Stephen W. Custer and Richard G. Krutchkoff, SA5:Oct 69:865:6834

Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296

Stream Enrichment from Farm Operations, Neal E. Minshall, Stanley S. Witzel and M. Starr Nichols, SA2:Apr 70:513:7238

Substrate Removal Mechanism of Trickling Filters, Bruce E. Jank and W. Ronald Drynan, EE3:June 73:187:9769

Sulfide Production in Waste Stabilization Ponds, Earnest F. Gloyna and Ernesto Espino, SA3:June 69:607:6637

Sulfuric Acid Attack on Concrete Sewer Pipe, Alvin H. Meyer and William B. Ledbetter, SA5:Oct 70:1167:7624

System Optimization of Waste Treatment Plant Process Design, Chia Shun Shih and John A. DeFilippi, SA2:Apr 70:409:7230

Tertiary Treatment by Flocculation and Filtration, DeFro Tossey, Paul J. Fleming and Ronald F. Scott, SA1:Feb 70:75:7106

Theoretical Analysis of Activated Sludge Dynamics, Charles R. Ott and Richard H. Bogan, SA1:Feb 71:1:7879

Theoretical Evaluation of Filter Modeling Experiments, Charles R. Ott and Richard H. Bogan, SA2:Apr 70:455:7233

Theory of Multilayer Filtration, Shyam S. Mohanka, SA6:Dec 69:1079:6959

Theory of Sand Filtration, Arun K. Deb, SA3:June 69:399:6593

Thermal Discharges From Large Nuclear Plant, Stanley Moyer and Edward C. Raney, SA6:Dec 69:1131:6983

Three Yards and a Cloud of Dust: An Empirical Approach to Career Development for the Smaller Engineering Firm in Transition, Robert Caird Lewis, CEE:Feb 74:1-834

Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810

Time-Capacity Expansion of Waste Treatment Systems, Thomas M. Rachford, Russell F. Scarato and George Tchobanoglous, SA6:Dec 69:1063:6957

Time-Varying Dissolved Oxygen Model, George D. Pence, John M. Jeglic and Robert V. Thomann, SA2:Apr 68:381:5915

Total Dollar Benefit of Water Pollution Control, Nelson L. Nemerow and Robert C. Faro, SA3:June 70:665:7323

Transfer of Oxygen in Aqueous Solutions, Edwin L. Barnhart, SA3:June 69:645:6639

Transport of Dissolved Wastes in Rivers, Roger Don Shull and Earnest F. Gloyna, SA6:Dec 69:995:6948

Treatment of Mine Drainage by Industry in Pennsylvania, Walter N. Heine and Ernest F. Giovannitti, SA3:June 70:743:7362

Treatment of Refinery Waste by Physicochemical Processes, Ju-Chang Huang and Michael G. Hardie, SA4:Aug 71:467:8318

Trends in Financial Support for Water Pollution Control, David H. Howells, SA3:June 67:1:5271

Tube Clarification Process, Operating Experiences, Gordon L. Culp, Kou-ying Hsiung and Walter R. Conley, SA5:Oct 69:829:6823

Turbulence and Flocculation, Yerachmiel Argaman and Warren J. Kaufman, SA2:Apr 70:223:7201

Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365:9879

Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561:8990

U-Tube Aeration Operating Characteristics, Richard E. Speece, Jack L. Adams and Carolyn B. Wooldridge, SA3:June 69:563:6621

Validity of Energy Change as a Growth Parameter, Edward D. Schroeder and Arthur W. Busch, SA2:Apr 68:193:5881

Valuation of Flow Augmentation Releases, Buford J. Carter, Jr., James P. Heaney and Edwin E. Pyatt, SA3:June 71:345:8203

Variability of Waste Treatment Plant Performance, Robert V. Thomann, SA3:June 70:819:7380

Variable Respiration in Aquatic Plant Communities, Archie J. McDonnell and Dennis W. Weeter, SA2:Apr 72:325:8852

Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109

Versatility and Expandability of Pretreatment, Rolf Eliassen and D. F. Coburn, SA2:Apr 69:299:6514

Viability of Long-Storaged Airborne Bacterial Aerosols, Calvin P.C. Poon, SA6:Dec 68:1137:6299

Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, SA5:Oct 71:601:8423

Virus Inactivation During Phosphate Precipitation, Dirk R. Brunner and Otis J. Sproul, SA2:Apr 70:365:7220

Waste-Induced Oxygen Uptake of an Alaskan Estuary, R. Sage Murphy and Ann P. Miller, SA2:Apr 68:345:5908

Wastes from the Preservation of Wood, E. Joe Middlebrooks, SA1:Feb 68:41:5785

Wastewater Reclamation and Export at South Tahoe, Russell L. Culp and H. E. Moyer, CE:June 69:38

Wastewater Reuse--A Supplemental Supply, John D. Parkhurst, SA3:June 70:653:7318

Water and Health-Are We Concerned Enough?, Walter A. Lyon, SA5:Oct 70:1147:7595

Water and Sewage Sludge Absorption by Solid Waste, Ralph Stone and Richard L. Kahle, SA5:Oct 72:731:9250

Water Conservation by Reclamation and Recharge, John H. Peters and John L. Rose, SA4:Aug 68:625:6065

Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966

Water Quality Control in California, B. Norman Hume, SA4:Aug 70:873:7448

Water Quality: Cost Benefits of Irreducibles, Ralph Stone, William F. Garber and Helen Friedland, SA3:June 70:691:7336

Water Quality Simulation Model, George R. Grantham, John C. Schaake, Jr. and Edwin E. Pyatt, SA5:Oct 71:569:8429

Water Reuse Systems Analysis, A. Bruce Bishop and David W. Hendricks, SA1:Feb 71:41:7898

Water Supply and Waste Water Districts in Suburbia, Myron K. Nelson and R. L. Chandler, SA2:Apr 70:593:7247

Sanitary Engineers

Peterson Named to Sanitary Post, CE:Feb 72:79

Unified Basis for Biological Treatment Design and Operation, Alonzo W. Lawrence and Perry L. McCarty, SA3:June 70:757:7365

Sanitary Landfill

Aerobic and Anaerobic Landfill Stabilization Process, Ralph Stone and Rishab K. Gupta, SA6:Dec 70:1399:7766

Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104

Demonstration Sanitary Landfill in Kansas City, Kans., Gerald A. Neely and Nicholas S. Artz, CE:Oct 72:72

Field Consolidation of High Ash Papermill Sludge, Robert P. Vallee and Orlando B. Andersland, GT3:Mar 74:309:10431

How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107

Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047

Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946

Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB:Aug 73:427

Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437

Sanitary Landfills: The Latest Thinking, CE:Mar 73:69

Water and Sewage Sludge Absorption by Solid Waste, Ralph Stone and Richard L. Kahle, SA5:Oct 72:731:9250

Sanitary Sewers

Design and Construction of Sanitary and Storm Sewers (Book Review), George M. Sallwasser, CE:June 70:88

Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796

Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78

Sanitary Sewer Extension Built Above Ground, R. Andrew Easley, Jr., CE:Apr 71:66

Satellites (Artificial)

Coastal Applications of the ERTS -- A Satellite, Orville T. Magoon, Douglas M. Pirie and John W. Jarman, CE13:72:III-2065
Sequential Photography of Coastal Water, Maynard M. Nichols, CE13:72:II-747
Surveying and Mapping from Orbital Platforms, Kam W. Wong, SU1:May 74:15:10529

Saturated Flow

Unsteady Free Surface Ground Water Seepage, Rameshwar D. Verma and Wilfried Brutsaert, HY8: Aug 71:1213:8337

Saturated Soils

Bearing Capacity of Partly Saturated Soils, Annapareddy Siva Reddy and Gavidi Mogaliah, TN: SM6:Nov 70:2175:7646
A Direct-Reading Pocket Shear Vane, Stanley Serota and Anil Jangle, CE:Jan 72:73
Earthquake Induced Settlements in Saturated Sands, Kenneth L. Lee and Aurelio Albaisa, GT4:Apr 74: 387:10496
Earthquake Wave Transmission Through Saturated Soil, Constantine N. Papadakis and Frank E. Richart, Jr., GT74:June 74:1
Longitudinal Dispersion in Saturated Porous Media, Miguel A. Marino, HY1:Jan 74:151:10296
Precompression Analysis for Highway Embankments, Raymond J. Krizek and Peter K. Krugman, GT74: June 74:111
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201
Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73: 75:9484

Saturation

Physics of Desaturation in Porous Materials, Nikolas F. White, Harold R. Duke, Daniel K. Sunada and Arthur T. Corey, IR2:June 70:165:7376
A Possible 1-Point System Method For Laboratory Compaction Testing, John J. Galvan, CE:Mar 72:78
Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73: 75:9484
Volume Change Characteristics of Unsaturated Clay, Laing Barden, Anthony O. Madedor and Geoffrey R. Sides, SM1:Jan 69:33:6338

Savannas

Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66

Savings

Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650
Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78

Scale (Ratio)

Selection of Maps for Engineering and Planning, Antonio M. Aguilar, Chmn., SU1:July 72:107:9073

Scale Effect

Cavitation and Size Scale Effects for Orifices, J. Paul Tullis and Rangachari Govindarajan, HY3:Mar 73: 417:9605
Distorted Modeling of Density Currents, James J. Sharp, CE13:72:III-2329
Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385
Residual Stresses in Rock, J. E. Russel and E. R. Hoskins, RM14:73:1
Scale Effect for Shallow Footings on Dense Sand, Pierre A. Habib, TN: GT1:Jan 74:95:10254
Scale Effects in Rubble-Mound Breakwaters, Kenneth W. Wilson and Ralph H. Cross, III, CE13:72:III-1873
Scale Selection for Mobile Bed Wave Models, J. William Kamphuis, CE13:72:II-1173
Scaling Methods for Surface Aerators, George Maise, SA5:Oct 70:1079:7605
Siphons: Some Scale-Effects in Models, Richard B. Whittington and Kamil H.M. Ali, HY1:Jan 72:45: 8629

Scaling

Scaling Of Earthquake Accelerograms-A Simplified Approach, Asadour H. Hadjian, TN: ST2:Feb 72: 547:8688

Scheduling

Bidding--Work Loading Game, Paul E. Torgersen, Richard M. Wyskida and Leonard S. Yarbrough, CO2:Oct 68:127:6141
Contracting Practices, State-of-Art Report 1, Charles A. DeBenedittis, TB:73:Ia-4-669
The CPM-by-Calendar Algorithm, John B. O'Shea, CO2:Oct 68:139:6142
External Transportation, State-of-Art Report 9, Roger M. Seitz, TB:73:Ia-1-211
Heuristic Scheduling Procedures for PRT System, Patrick R. Esposito, TE4:Nov 74:845:10910
The Impact of Staggered Work Hours on Public Transportation, Roger H. Gilman, NA:Mar 71:91
Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR73:Aug 73:647
Irrigation Scheduling from Evaporation Reports, Mel A. Hagood, OIDS:72:533
Irrigation Scheduling Using Mean Evapotranspiration Rates, Delvin D. Brosz, OIDS:72:561
Irrigation Timing to Maximize Economic Crop Yields, Dan Salcedo and W. L. Meier, Jr., OIDS: 72:81
Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275: 9204
New Criterion for Resource Scheduling, E. M. Davies, TE4:Nov 73:741:10118
Owner's Return from CPM-Fact or Fiction, Lewis W. McBride, CO1:June 70:1:7316
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Planning Monitoring Frequencies for CPM Projects, Douglas Vasco Costa, CO2:Nov 71:211:8503
Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830
Rate of Work Method: Simplified Project Control, John A. Cunningham and Edward P. Yarmowich, CE:Nov 73:62
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47
Scheduling Irrigations Using Climate-Crop-Soil Data, Marvin E. Jensen, David C.N. Robb and C. Eugene Franzoy, IR1:Mar 70:25:7131
Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732
Stochastic Scheduling of Linear Construction Sites, Joachim Dressler, CO4:Dec 74:571:11024
Stress Day Index ... A New Concept for Irrigation Timing, Edward A. Hiler, Terry A. Howell and David G. Bordovsky, OIDS:72:579
Thermal power plants: Key problems, trends, Eugene E. Dallaire, CE:Dec 74:35
Vertical Transportation, State-of-Art Report 4, Calvin L. Kort, TB:73:Ia-2-341
Weather Information and Irrigation Scheduling - I. Weather and Irrigation Demand, Wayne L. Decker, OIDS:72:65

Schistosomiasis

Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994

School Buildings
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128

Schools
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72:769:9355
School Trip Safety and Urban Play Areas - A Study of the Young Pedestrian, Martin L. Reiss, BP73:Dec 73:96
SCSD:Pioneer Effort in Systems Approach to Building Construction, Christopher Arnold, CE:Apr 69:41
Surveyor 1984, B. Austin Barry, EI3:July 74:235:10658
Systems Approach to Building, James R. Cagley, CE:Apr 73:59
Transportation Planning for Urban School Systems, Patrick R. Pickens and John M. Tyler, TE2:May 74:461:10555
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369

Schools (Education)
What Graduate Students Want From ASCE, Harold J. Singer, PP3:July 73:313:9881

Sciences
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897

Scour
Bank Stabilization in Susquehanna River Basin, James E. Crews, WW1:Feb 70:87:7061
Bed Scour at End-Dump Channel Constrictions, Bishnu Prasad Das, HY12:Dec 73:2273:10228
Bridge Design Considering Scour and Risk, Emmett M. Laursen, TE2:May 70:149:7262
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
Hydrologic Evaluations in Bridge Pier Scour Design, Peter C. Klingeman, HY12:Dec 73:2175:10224
Irrigation Channel Structures, Victoria, Australia, Keith A. Murley, IR2:June 70:131:7371
A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130
Scour Around a Circular Cylinder due to Wave Motion, Donald R. Wells and Robert M. Sorensen, 12CEC:71:1263

Scouring
Bed Scour at End-Dump Channel Constrictions, Bishnu Prasad Das, HY12:Dec 73:2273:10228
Decrease in Scour Rate of Fresh Deposited Muds, Iaakov Karcz and Gonapathy Shanmugam, TN:HY11:Nov 74:1735:10923
Emergency Grouting of Old River Low Sill Structure, La., E. Burton Kemp, EFFD:Mar 74:371
Gabions Used In California Flood Control, Fred R. Cline, (Deceased) and Edward Koehm, CE:Mar 74:68
Local Scour Around Bridge Piers, Hsieh W. Shen, Verne R. Schneider and Susumu Karaki, HY6:Nov 69:1919:6891
Protection of Offshore Structures Against Underscour, Chesley J. Posey, HY7:July 71:1011:8230
Scour Around a Circular Cylinder due to Wave Motion, Donald R. Wells and Robert M. Sorensen, 12CEC:71:1263
Two Prestressed Concrete Bridges in Pakistan, Donovan H. Lee, CE:Oct 69:61
Wave-Induced Scour On The Sea Floor, Harold D. Palmer, CEO-II:70:703

Scrap
Salvaging Obsolete Autos: Systems Approach to Materials Recycling, CE:Apr 71:52

Screening
Screening Model for Storm Water Control, Paul H. Krishen and David H. Marks, EE4:Aug 74:807:10712

Scrubbers
Sulfur Dioxide Dilemma: Is the Scrubber the Answer?, Virginia Fairweather, CE:June 74:64

Sea Breezes
The Shear Stress of Sea Breeze on a Swash Zone, Shih-Ang Hsu, 12CEC:71:243

Sea Grasses
Laboratory Tests on Artificial Seaweed, W. A. Price, K. W. Tomlinson and D. H. Willis, 12CEC:71:995
Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293

Sea Ice
Artificial Sea Ice Structures For Alaskan Ports, Charles E. Behlke and Alexander R. McKay, CEO-II:70:361

Sealants
Designing Against Infiltration, State-of-Art Report 4, Elmer E. Botsai, TB:73:Ia-12-1131
Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54

Sealers
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54

Sea Level
Currents in an Interoceanic Canal, Edwin W. Eden, Jr., HY1:Jan 69:79:6342
Nuclear Excavation of an Elat-Dead Sea Waterway, Aviva E. Gileadi and Wilson K. Talley, WW3:Aug 69:329:6730
A Study of a Slide-prone Clay in Panama, Ralph R. W. Beene, 4PCSM:71:II129

Sealing
Sealing Leaks in Pipelines with Ammoniated Waters, Kenneth K. Tanji, L. D. Doneen and J. V. Kubes, IR1:Mar 69:171:6473

Seaports
Further Analysis of Optimum Size Seaport, Stephen R.C. Wanhill, WW4:Nov 74:377:10961

Searching
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Search Theory
Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470

Seasons
Calendar-Day CPM, Louis R. Shaffer, CE:Aug 69:65

Sea Surface Effects Detection
Holographic Method of Wave Spectrum Measurement, Takashi Ichiye and Yasuhiro Sugimori, WAVES:Sept 74:139
Stereophotography of the Sea Surface, An Experiment, L. H. Holthuijsen, M. Tienstra and G. J. v.d. Vliet, WAVES:Sept 74:153

Sea Walls
Plastic Filter Cloth used for Stone Seawalls, James W. Dunham and Robert J. Barrett, CE:Mar 74:70
Pressure of Waves Against Vertical Walls, M. E. Plakida, 12CEC:71:1451
Researches on Sea-Walls, Shoshichiro Nagai, 12CEC:71:1431

Sea Water

Anti-Fouling System By Electrolysis Of Sea Water, Toru Yoshii, Kenji Ueda and Tsutomu Horiguchi, CEO-II:70:1045

Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950

Estuary Water Quality and Salmonella, Francis T. Brezenski, NSCD:71:481

Natural Virus Inactivation Processes in Sea Water, Hillel I. Shuval, Andrew Thompson, Badri Fattal and Samuel Cymbalista, NSCD:71:429

Persistence of Virus and Bacteria in Seawater, William D. Won and Harold Ross, EE3:June 73:205:9781

Protection of E. Coli by Montmorillonite in Seawater, Gabriel Bitton and Ralph Mitchell, TN: EE6:Dec 74:1310:10978

Thermal Power Plant Environmental Studies, M. J. Doyle, Jr. and Ramon F. Cayot, CE13:72:III-2075

Sea Water Corrosion

Thin Underwater Concrete Structures, Odd E. Gjorv, CO1:June 70:9:7326

Sea Water Intrusion

Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405

Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171

Secondary Compression

Coefficient of Secondary Compression, Gholamreza Mesri, SM1:Jan 73:123:9515

Foundation Precompression with Vertical Sand Drains, Stanley J. Johnson, PISST:71:9

Precompression for Improving Foundation Soils, Stanley J. Johnson, SM1:Jan 70:111:7020

Precompression for Improving Foundation Soils, Stanley J. Johnson, PISST:71:53

Secondary Compression in the Shear of Clays, Leonard K. Walker, SM1:Jan 69:167:6348

Secondary Consolidation and Strength of a Clay, Chih-Kang P. Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510

Settlement Analysis of Two Highway Embankments, Hon-Hsieh Su and Rogel W. Prysock, PES:72:I-465

Theory of Consolidation for Clays, Gholamreza Mesri and Anoushiravan Rokhsar, GT8:Aug 74:889:10740

Secondary Flow

Bed Topography Effect on Flow in a Meander, Chin-lien Yen, HY1:Jan 70:57:7003

Sector Gates

Sector Gates in Bangkok Klong System, Fred C. Stepanich, WW4:Nov 71:721:8549

Security

Bicycle Theft: The Problem and The Prevention, Raymond N. Seakan, BP73:Dec 73:496

Sedimentation

Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809

Agricultural Waste Management, J. Ronald Miner, EE2:Apr 74:363:10470

Analysis of Sedimentation Data, Udayagiri Mohan Rao, TN: HY4:Apr 71:647:8018

At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801

Basin Tracer Curves Interpreted by Basic Analytics, A. Adler Hirsch, SA6:Dec 69:1031:6951

Bed-Material Transport and Bed Forms, Marion R. Carstens and Hilmi D. Altinbilek, HY5:May 72:787:8890

Boundary Layer Separation Concept of Settling Tanks, Yishu Chiu, EE6:Dec 74:1213:11019

Carbonate Cementation in Deep-Ocean Sediments, William E. Kelly, Vito A. Nacci, Mian C. Wang and Kenneth R. Demars, TN: GT3:Mar 74:383:10420

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177

Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305

Coastline Changes Near a Tidal Inlet, Emmanuel Partheniades and James A. Purpura, CE13:72:II-843

Control of Turbidity at Construction Sites, Melvin F. Katzer, ECCD:72:353

Critical Review of Sediment Transport Experiments, Richard H. Cooper, Allan W. Peterson and Thomas Blench, HY5:May 72:827:8873

Cyclic Sedimentation in Agua Hediona Lagoon, Southern California, John R. Ritter, TN: WW4:Nov 72:597:9373

Definitive Computations of Sand Discharge in Rivers, Fred B. Toffaleti, HY1:Jan 69:225:6350

Deposition of Sediment in Transient Flow, Fred F. M. Chang and Dennis L. Richards, HY6:June 71:837:8191

Deposition of Suspended Particles in a Gravel Bed, Hans Albert Einstein, HY5:Sept 68:1197:6102

Depth-Integrating and Dip Samplers, Walter G. Knisel and Ralph W. Baird, HY2:Feb 70:497:7084

Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10:Oct 73:1659:10070

Designing Launders for Settling Tanks, Chesman A. Lee, CE:Aug 71:69

Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051

Deterioration and Restoration of Coastal Wetlands, Sherwood M. Gagliano, Hyuck J. Kwon and Johannes L. van Beek, 12CEC:71:1767

Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138

Dredge Spoil Surveillance In Shellfish Areas, George W. Allen and Donald M. Conlon, CEO-II:70:823

The Effect of Groynes on Eroded Beaches, W. A. Price and K. W. Tomlinson, 12CEC:71:1053

Effects of Density Ratio on Sedimentary Similitude, Walter G. Field, HY3:May 68:705:5948

Effects of Water Temperature on Bed-Load Movement, John J. Franco, WW3:Aug 68:343:6083

Einstein Bed-Load Function at High Sediment Rates, Hans Albert Einstein and Farouk M. Abdel-Aal, HY1:Jan 72:137:8652

Engineering Properties of Sea Floor Sediments from La Jolla Canyon, Iraj Noorany and Robert A. Zinser, CE13:72:II-1559

Entry Velocity Control Limits Drain Sedimentation, Lyman S. Willardson, L. Fouss, Ronald C. Reeve and Norman R. Fausey, IR4:Dec 68:455:6300

Environmental Problems and Monitoring in Coastal Waters, Arthur T. Ippen, CE13:72:I-9

Erosion Control in Relation to Watershed Management, William R. Moore and C. Edwin Smith, IR3:Sept 68:321:6126

Evaluating Watershed Management Alternativee, Harry E. Brown, IR1:Mar 71:93:7952

Factors Determining Bed Forms of Alluvial Streams, Vito A. Vanoni, HY3:Mar 74:363:10396

Field Test of an X-ray Sediment-Construction Gage, Carl E. Murphree, Gerald Bolton and J. Roger McHenry, HY2:Mar 68:515:5868

Flat-Vee Weirs In Alluvial Channels, William Rodney White, HY3:Mar 71:395:7989

Flow and Bed Topography in Channel Bends, Frank Engelund, HY11:Nov 74:1631:10963

Flume Experiments on Alternate Bar Formation, Hai Yain Chang, Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869

Geotechnical Properties of Hudson River Silts, Surendra K. Saxena and Timothy P. Smirnoff, TN: SM10:Oct 73:912:10042

Hydraulic Engineering and the Environment, William A. Hunt, Chmn., HYB:74, 466pp.

Hydraulics and Sedimentary Stability of Coastal Inlets, Morrough P. O'Brien and Robert G. Dean, CE13:72:II-761

Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, HY11:Nov 71:1835:8523

Impact on Fish and Wildlife from Land-Use Practice, John C. Peters, IAWM:72:387

Influences of Sedimentation on Water Quality: An Inventory of Research Needs, Robert H. Livesey, Chmn., HY8:Aug 71:1203:8325

Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72:1057:8952

Interaction Of A River With The Coast: Laboratory Simulation, Omar H. Shemdin, CEO-II:70:763

Isopachous Mapping of the Lower Patuxent Estuary Sediments by Continuous Seismic Profiling Techniques, Newell T. Stiles and Donald R. Wiesnet, 12CEC:71:669

Laboratory Study of Degradation and Aggradation, Suryanarayana Bhamidipaty and Hsieh W. Shen, WW4:Nov 71:615:8493

A Marine Environmental Survey In The Bay of Fundy, Jack K. Tuttle and Robert L. McCollom, CEO-II:70:805

Mass Transport by Waves and Offshore Sand Bedforms, Trevor G. Carter, Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699

Mineral Scavenging and Marine Pollution, Richard G. Bader, CEO-II:70:1

Model for Sediment Transport through an Estuary Cross Section, Herbert H. Stevens, Jr., David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279

Motion of Single Particles in Alluvial Channels, Neil S. Grigg, HY12:Dec 70:2501:7770

Nonequilibrium Transport of Suspended Sediment, Allen T. Hjelmfelt and Charles W. Lenau, HY7:July 70:1567:7430

Observation of Sedimentmotion by Underwater-Television, Gunter Luck, 12CEC:71:687

Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, Nikolai P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Parameters for Bed Slip Point in Two-Phase Flow, Kenneth C. Wilson, HY10:Oct 71:1665:8426

Particle Size Distribution of Soils, J. Macneil Turnbull, TN: SM6:Nov 70:2171:7646

Pattern Forming Forces in Deltas, Richard Silvester and Catalino del Rosario de la Cruz, WW2:May 70:201:7260

Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259

Pipelining of Low-Concentration Sand-Water Mixtures, Millard P. Robinson, Jr. and Walter H. Graf, HY7:July 72:1221:9060

Predicting Concentration Profiles in Open Channels, Harvey E. Jobson and William W. Sayre, HY10:Oct 70:1983:7618

Predicting Sediment Yield in Western United States, Elliott M. Flaxman, HY12:Dec 72:2073:9432

Preservation of Estuaries by Tidal Inlets, Mason G. Lockwood and Henry P. Carothers, WW4:Nov 67:133:5583

Reach of Waves to the Bed of the Constitutional Shelf, Richard Silvester and Geoffrey R. Mogridge, 12CEC:71:651

Research Needs on Thermal and Sedimentary Pollution in Tidal Waters by the Committee on Tidal Hydraulics of the Hydraulics Division, Frank D. Masch, Chmn., HY7:July 70:1539:7426

Resistance to Reversing Flows over Movable Beds, Mehmetcik Bayazit, HY4:July 69:1109:6649

Rio Grande Bar - The Case History of a Lagoon Outlet into a Tideless Sea, V. F. Motta, 12CEC:71:1243

River Erosion Due to Channel Relocation, Lawrence W. Yearke, CE:Aug 71:39

River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1:Jan 74:1:10281

River Metamorphosis, Stanley A. Schumm, HY1:Jan 69:255:6352

Salinity Intrusion Effects in Estuary Shoaling, Donald R.F. Harleman and Arthur T. Ippen, HY1:Jan 69:9:6340

Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254

Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: A. Fluvial Sediment, Task Committee on Preparation of the Sedimentation Manual, Vito A. Vanoni, HY5:Sept 69:1477:6756

Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: F. Laboratory Procedures, Task Committee on Preparation of the Sedimentation Manual, Vito A. Vanoni, HY5:Sept 69:1515:6757

Sedimentation Engineering, Chapter IV: Sediment Sources and Sediment Yields, Task Committee on Preparation of Manual on Sedimentation, Vito A. Vanoni, Chmn., HY6:June 70:1283:7337

Sedimentation Engineering, Chapter II: Sediment Transportation Mechanics: Q. Genetic Classification of Valley Sediment Deposits, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:43:7815

Sedimentation Engineering, Chapter VI: Economic Aspects of Sedimentation, Vito A. Vanoni, Chmn., HY1:Jan 69:191:6334

Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73:1551:10033

Sedimentation in Retarding Basins, Lamont W. Curtis, HY3:May 68:739:5951

Sedimentation of Reservoirs, I. C. dos M. Pais-Cuddou and Shri N. C. Rawel, IR3:Sept 69:415:6789

Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Vito A. Vanoni, Chmn., HY12:Dec 71:1979:8591

Sediment Budget of the Lower Fraser River, Nick Tywoniuk, CE13:72:II-1105

Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071

Sediment Control Methods: D. Reservoirs, Vito A. Vanoni, Chmn., HY4:Apr 73:617:9671

Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783

Sediment Dispersion in Flow with Moving Boundaries, Cheng-lung Chen, HY8:Aug 71:1181:8287

Sediment-Pickup Function, Albert R. LeFeuvre, Hilmi D. Altinbilek and Marion R. Carstens, HY10:Oct 70:2051:7636

Sediment Routing in Irrigation Canal Systems, Khalid Mahmood, IR1:Mar 74:49:10401

Sediment Transportation Mechanics: J. Transportation of Sediment in Pipes, Vito A. Vanoni, Chmn., HY7:July 70:1503:7423

Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division, Vito A. Vanoni, Chmn., HY4:Apr 71:523:8076

Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Vito A. Vanoni, Chmn., HY1:Jan 71:101:7786

Sediment Transportation Mechanics: Nature of Sedimentation Problems, by Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY2:Mar 65:4260

Sediment Transport at Low Shields-Parameter Values, Erik Helland-Hansen, Robert T. Milhous and Peter C. Klingeman, TN: HY1:Jan 74:261:10283

Sediment Transport in a Tidal Inlet, John R. Ritter, CE13:72:II-823

Sediment Transport in Tidal River, Amarendra N. Biswas and Arun K. Chakrabarti, HY11:Nov 74:1677:10964

Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11: Nov 73:2041:10167

Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293

Sediment Yeilds from Central Colorado Snow Zone, Charles F. Leaf, HY1:Jan 70:87:7006

Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12: Dec 72:2087:9426

Similarity of Equilibrium Beach Profiles, M. J. Paul, J. William Kamphuis and A. Brebner, CE13:72:II-1217

Some Sand Transport Phenomena on Coasts with Bars, Mogens Dyhr-Nielsen and Torben Sorensen, 12CEC:71:855

Some Sediment Aspects of Tropical Storm Agnes, Harold P. Guy and Terry L. Clayton, TN: HY9: Sept 73:1653:10024

Statistical Model of Turbulence in Sediment-Laden Streams, W. J. Conover and N. C. Matalas, EM5: Oct 69:1063:6814

Stochastic Analysis of Beach Profile Data, Choule J. Sonu and Myron H. Young, 12CEC:71:1341

Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, HY7:July 74:849:10657

Structure of Deep Sea Clays, Vito A. Nacci and Milton T. Huston, CEO-II:70:599

Temperature Effects in Flows over Nonplanar Beds, Brent D. Taylor, HY12:Dec 74:1785:11015

Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8: Aug 72:1427:9105

Testing Sediment Movement Due to Wave Action, Geoffrey R. Mogridge, HY7:July 70:1587:7433

Tracer Studies of Sediment Transport Processes, Ronald E. Rathbun and Carl F. Nordin, HY9:Sept 71:1305:8364

Transport Littoral: Essais et Calculs, J. P. Epetit, CE13:72:II-971

Tube Clarification Process, Operating Experiences, Gordon L. Culp, Kou-ying Hsiung and Walter R. Conley, SA5:Oct 69:829:6823

Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420

Validity of Stokes Theory for Accelerating Spheres, Lyle F. Mockros and Robert Y.S. Lai, EM3:June 69:629:6613

Velocity and Shear Stress in Wave Boundary Layers, P. G. Teleki, CE13:72:I-569

Vertical Transfer in Open Channel Flow, Harvey E. Jobson and William W. Sayre, HY3:Mar 70:703: 7148

Sedimentation Tanks

Role of Activated Sludge Final Settling Tanks, Richard I. Dick, SA2:Apr 70:423:7231

Tracer Dispersion of High Rate Settling Tanks, Hassan M. El-Baroudi and David R. Fuller, EE3: June 73:347:9820

Sediment Concentration

Turbulence and Sediment Concentration due to Waves, Kiyoshi Horikawa and Akira Watanabe, 12CEC:71:751

Sediment Control

Sediment and Storm Water Control for Fossil Power Plants, Harry C. Grau, EPCE:Aug 74:339

Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420

Sediment Deposits

Compared Experiences with the S.P.T. (In Spanish), C. M. Arce, F. L. Torres and H. J. Vercelli, 4PCSM:71:II95

Landslides in Weathered Volcanics in Puerto Rico, George F. Sowers, 4PCSM:71:II105

Pipelining of Low-Concentration Sand-Water Mixtures, Millard P. Robinson, Jr. and Walter H. Graf, HY7:July 72:1221:9060

Sediment Control Methods: D. Reservoirs, Vito A. Vanoni, Chmn., HY4:Apr 73:617:9671

Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12: Dec 72:2191:9456

Turbulence and Sediment Concentration due to Waves, Kiyoshi Horikawa and Akira Watanabe, 12CEC:71:751

Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129

Sediment Discharge

Suspended Load In Bhagirathi River System, Amarendra N. Biswas, TN: HY1:Jan 72:315:8617

Sediment Distribution

Sediment Distribution and Its Relations to Circulation Patterns in Bolinas Bay, California, P. Wilde and T. Yancey, 12CEC:71:1397

Sediment Load

Einstein Bed-Load Function at High Sediment Rates, Hans Albert Einstein and Farouk M. Abdel-Aal, HY1:Jan 72:137:8652

Flume Experiments On Flow In Mobile Bed Channels, Richard H. Cooper and Allan W. Peterson, TN: HY10:Oct 70:2167:7575

Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Vito A. Vanoni, Chmn., HY12:Dec 71:1979:8591

Sediment Pollution in Coastal Waters, Jacobus van de Kreeke, 12CEC:71:1803

Sediment Sampling Efficiency of Slots, Michael Poreh, Abraham Sagiv and Ido Seginer, HY10:Oct 70:2065:7637

Sediment Transport in Tidal River, Amarendra N. Biswas and Arun K. Chakrabarti, HY11:Nov 74: 1677:10964

Sediment Production

Sediment Control Methods: D. Reservoirs, Vito A. Vanoni, Chmn., HY4:Apr 73:617:9671

Sediments

Analysis of Sedimentation Data, Udayagiri Mohan Rao, TN: HY4:Apr 71:647:8018

Biological Effects on Sediment-Water Nutrient Interchange, Donald B. Porcella, James S. Kumagai and E. Joe Middlebrooks, SA4:Aug 70:911:7460

Calibration of Walnut Gulch Supercritical Flumes, Wendell R. Gwinn, HY8:Aug 70:1681:7479

Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Vito A. Vanoni, Chmn., HY12: Dec 70:2417:7781

Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HY6:June 74:719:10584

Depth-Integrating and Dip Samplers, Walter G. Knisel and Ralph W. Baird, HY2:Feb 70:497:7084

Distribution of Pesticides in California, Thomas E. Bailey and John R. Hannum, SA5:Oct 67:27:5510

A Dynamic Penetrometer For Investigating Sediment Properties, Robert D. Stoll, CEO-II:70:209

Engineering Properties of Sea Floor Sediments from La Jolla Canyon, Iraj Noorany and Robert A. Zinser, CE13:72:II-1559

Engineering Properties of Some Sea-Floor Deposits, George H. Keller, SM6:Nov 69:1379:6907

Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342

Environnental Effects of Overboard Spoil Disposal, Robert B. Biggs, SA3:June 68:477:5979

Erodibility of Channels With Cohesive Boundary, Emmanuel Partheniades and Robert E. Paaswell, HY3:Mar 70:755:7156

Erosion of Cohesive Sediments, Task Commitee on Erosion of Cohesive MaterialH, Frank D. Masch, HY4:July 68:1017:6044

Estimation of Washload Produced on Certain Small Watersheds, Oswald Rendon-Herrero, HY7:July 74: 835:10638

Feasibility of Hydrocyclones for Dredge Spoil, William G. Tiederman and Michael M. Reischman, WW4:Nov 74:361:10953

Field Study of Surathkal Beach, P. Suryaprakasa Rao and P. Kassim, 12CEC:71:1365

Flat-Vee Weirs In Alluvial Channels, William Rodney White, HY3:Mar 71:395:7989
Foundation Conditions, Wayne A. Dunlap and Louis J. Thompson, PITO:74:29
Foundation Study for Materials Test Structure, Melvin C. Hironaka and Raymond J. Smith, SM6: Nov 69:1431:6921
Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854
Homogeneous Suspensions in Circular Conduits, Walter H. Graf and Ertan R. Acaroglu, PL2:July 67:63:5352
Influence of Sediments on Transport of Solutes, Earnest F. Gloyna, HY4:July 69:1347:6699
Influence of Suction and Blowing on Entrainment of Sand Particles, Daniel M. Oldenziel and Warner E. Brink, HY7:July 74:935:10672
In Situ Investigations Of Ocean Sediments, Lloyd Lewis, Vito A. Nacci and James Gallagher, CEO-II:70:641
Instability of Flat Bed in Alluvial Channels, Harry M. Hill, Vajapeyam S. Srinivasan and Tharakkal E. Unny, HY5:Sept 69:1545:6770
Interaction Of A River With The Coast: Laboratory Simulation, Omar H. Shemdin, CEO-II:70:763
Interagency Approach to Watershed Problems Of Eel River, Eugene F. Serr, IR1:Mar 71:181:7983
Laboratory Study of Degradation and Aggradation, Suryanarayana Bhamidipaty and Hsieh W. Shen, WW4:Nov 71:615:8493
Lubricant And Polymer Reduction Of Sediment Adhesion, R. A. Erchul and Raymond J. Smith, CEO-II:70:621
Mass Properties Of The Sea Floor In A Selected Depositional Environment, George H. Keller, CEO-II:70:857
Particle Size of River Sediments, George Fleming and Thomas Poodle, HY2:Feb 69:431:7068
Plastic Filter Cloth used for Stone Seawalls, James W. Dunham and Robert J. Barrett, CE:Mar 74:70
Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731
Properties of Longshore Bars in the Great Lakes, James H. Saylor and Edward B. Hands, 12CEC:71:839
Rationalization of Lacey's Regime Flow Equations, Mohammad Akram Gill, HY4:July 68:983:6039
Regional Sediment Yield Analysis of Alaska Streams, Gary L. Guymon, HY1:Jan 74:41:10255
Sampling Procedures for Coarse Fluvial Sediments, Rolf Kellerhals and Dale I. Bray, HY8:Aug 71:1165:8279
Scour Around a Circular Cylinder due to Wave Motion, Donald R. Wells and Robert M. Sorensen, 12CEC:71:1263
Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY5:May 70:1157:7269
Sedimentation of Reservoirs, I. C. dos M. Pais-Cuddou and Shri N. C. Rawel, IR3:Sept 69:415:6789
Sediment Dispersion in Flow with Moving Boundaries, Cheng-lung Chen, HY8:Aug 71:1181:8287
Sediment Distribution and Its Relations to Circulation Patterns in Bolinas Bay, California, P. Wilde and T. Yancey, 12CEC:71:1397
Sediment Pollution in Coastal Waters, Jacobus van de Kreeke, 12CEC:71:1803
Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division, Vito A. Vanoni, Chmn., HY4:Apr 71:523:8076
Sediment Transport in Tidal River, Amarendra N. Biswas and Arun K. Chakrabarti, HY11:Nov 74:1677:10964
Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11: Nov 73:2041:10167
Sediment Yeilds from Central Colorado Snow Zone, Charles F. Leaf, HY1:Jan 70:87:7006
Sludges and Associated Problems Involving Agricultural Drains in Florida Wetlands, Harry W. Ford, SEA:70:15
Stochastic Analysis of Beach Profile Data, Choule J. Sonu and Myron H. Young, 12CEC:71:1341
Successive Saltation of a Sand Grain by Wind, Yoshito Tsuchiya, 12CEC:71:1417
Synoptic Observations of Sand Movement, David B. Duane, 12CEC:71:799
Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8: Aug 72:1427:9105
Turbulence and Sediment Concentration due to Waves, Kiyoshi Horikawa and Akira Watanabe, 12CEC:71:751
Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, WW1: Feb 74:13:10325

Sediment Sampling

At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801

Sediment Transport

Bed-Material Transport and Bed Forms, Marion R. Carstens and Hilmi D. Altinbilek, HY5:May 72: 787:8890
A Class of Probability Models for Littoral Drift, William R. James, 12CEC:71:831
Clogging of Porous Column of Spheres by Sediment, Ramaswamy Sakthivadivel and Hans Albert Einstein, HY2:Feb 70:461:7075
A Comparison of Fluvial and Coastal Similitude, Bernard LeMehaute, 12CEC:71:1077
Critical Review of Sediment Transport Experiments, Richard H. Cooper, Allan W. Peterson and Thomas Blench, HY5:May 72:827:8873
Density Currents and Turbulent Diffusion in Locks, A. Roy Halliwell and Martin O'Dell, 12CEC:71: 1959
Diffusion of Sediment in Developing Flow, Robert P. Apmann and Ralph R. Rumer, Jr., HY1:Jan 70:109: 7018
Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138
Dispersion of Silt Particles in Open Channel Flow, William W. Sayre, HY3:May 69:1009:6579
Distribution of Sediment Transport Across the Surf Zone, Edward B. Thornton, CE13:72:II-1049
Experimental Investigation of Form of Bed-Roughness, Sat Dev Khanna, HY10:Oct 70:2029: 7623
Flume Experiments On Flow In Mobiie Bed Channels, Richard H. Cooper and Allan W. Peterson, TN: HY10:Oct 70:2167:7575
Formation of Dunes and Antidunes in Open Channels, Taizo Hayashi, HY2:Feb 70:357:7056
Incipient Motion and Sediment Transport, Chih Ted Yang, HY10:Oct 73:1679:10067
Influence of Grain Size on Littoral Drift, Jose Castanho, 12CEC:71:891
Influence of Sediments on Transport of Solutes, Earnest F. Gloyna, HY4:July 69:1347:6699
Influence of Suction and Blowing on Entrainment of Sand Particles, Daniel M. Oldenziel and Warner E. Brink, HY7:July 74:935:10672
Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3: Mar 72:489:8765
Littoral Transport and Energy Relationships, L. Bajorunas, 12CEC:71:787
Longitudinal Dispersion of Bed-Material Particles, Chih Ted Yang and William W. Sayre, HY7:July 71:907:8228
Longshore Transport of Suspended Sediment, John C. Fairchild, CE13:72:II-1069
Measurement of Sediment Suspension in Combinations of Waves and Currents, J. Kirkegaard Jensen and Torben Sorensen, CE13:72:II-1097

Model for Sediment Transport through an Estuary Cross Section, Herbert H. Stevens, Jr., David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279
Modeling Sedimentation at Inlet and Coastal Region, Pang-Mou Lin, CE13:72:II-883
A New Approach to Coastal Defense, Richard Silvester and Siew-Koon Ho, CE:Sept 74:66
Nonequilibrium Transport of Suspended Sediment, Allen T. Hjelmfelt and Charles W. Lenau, HY7: July 70:1567:7430
A Numerical Model of Estuarine Pollutant Transport, Hugo B. Fischer, CE13:72:III-2255
Observation of Sedimentmotion by Underwater-Television, Gunter Luck, 12CEC:71:687
Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125
Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259
Processing and Analysis of Radioisotopic Sand Tracer (RIST) Study Data, H. R. Brashear, E. H. Acree, F. N. Case, P. A. Turner and David B. Duane, 12CEC:71:821
Properties of Longshore Bars in the Great Lakes, James H. Saylor and Edward B. Hands, 12CEC:71: 839
Rate of Sediment Motion Using Fluorescent Tracer, Abdel-Latif A. Kadib, CE13:72:II-985
A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130
Sand Transport During Closure of Tidal Channels, J. N. Svasek, J. H.J. Terwindt and A. W. Walther, CE13:72:II-865
Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: A. Fluvial Sediment, Task Committee on Preparation of the Sedimentation Manual, Vito A. Vanoni, HY5:Sept 69:1477:6756
Sediment Balance of Clyde Estuary, George Fleming, HY11:Nov 70:2219:7676
Sediment Budget of the Lower Fraser River, Nick Tywoniuk, CE13:72:II-1105
Sediment-Pickup Function, Albert R. LeFeuvre, Hilmi D. Altinbilek and Marion R. Carstens, HY10:Oct 70:2051:7636
Sediment Transport at Low Shields-Parameter Values, Erik Helland-Hansen, Robert T. Milhous and Peter C. Klingeman, TN: HY1:Jan 74:261: 10283
Sediment Transport by Wave Action, Hans Albert Einstein, CE13:72:II-933
Sediment Transport in a Tidal Inlet, John R. Ritter, CE13:72:II-823
Sediment Transport Measurements in Gravel River, Albert B. Hollingshead, HY11:Nov 71:1817:8521
Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11: Nov 73:2041:10167
Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293
Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056
Stochastic Model For Sand Dispersion, Chih Ted Yang and William W. Sayre, HY2:Feb 71:265:7892
Studies on the Shore Process and Wave Features of the Western Coast of Taiwan, Kenneth S. T. Chang and Frederick L. W. Tang, 12CEC:71:729
Successive Saltation of a Sand Grain by Wind, Yoshito Tsuchiya, 12CEC:71:1417
Suspended Sediment and Longshore Sediment Transport Data Review, Madan M. Das, CE13:72: II-1027
Synoptic Observations of Sand Movement, David B. Duane, 12CEC:71:799
Testing Sediment Movement Due to Wave Action, Geoffrey R. Mogridge, HY7:July 70:1587:7433
Tracer Studies of Sediment Transport Processes, Ronald E. Rathbun and Carl F. Nordin, HY9:Sept 71:1305:8364
Transport Littoral: Essais et Calculs, J. P. Epetit, CE13:72:II-971
An Underwater Survey System for Radionuclide-tagged Sediment Tracing, E. H. Acree, H. R. Brashear and F. N. Case, 12CEC:71:815
Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
Wave Refraction and Littoral Transport Computation, Theodor R. Mogel and Robert L. Street, WAVES:Sept 74:790

Sediment Yield

Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73: 793:9748
Predicting Sediment Yield in Western United States, Elliott M. Flaxman, HY12:Dec 72:2073:9432
Regional Sediment Yield Analysis of Alaska Streams, Gary L. Guymon, HY1:Jan 74:41:10255
Sedimentation Engineering, Chapter IV: Sediment Sources and Sediment Yields, Task Committee on Preparation of Manual on Sedimentation, Vito A. Vanoni, Chmn., HY6:June 70:1283:7337
Sediment Yeilds from Central Colorado Snow Zone, Charles F. Leaf, HY1:Jan 70:87:7006

Seepage

Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
Analysis of Canal Seepage to Interceptor Drain, Heramb D. Sharma and Amrik S. Chawla, IR3:Sept 74:351:10819
Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507
Analysis of Seepage into Ground-Water System, Adigun Ade Abiodun, TN: HY7:July 73:1203:9827
Approximate Solution for Unconfined Seepage, Chandrakant S. Desai, IR1:Mar 73:71:9607
Approximate Solution to Flow Problems Under Dams, Demetrious G. Christoulas, SM11:Nov 71: 1573:8528
Behavior Of Porous Bed Near Flow Singularity, C. Samuel Martin, SM2:Feb 71:393:7935
Bentonite Sealing Methods Compared in the Field, Myron B. Rollins and Anthony S. Dylla, IR2:June 70:193:7379
Braced Excavations, T. William Lambe and Edmund K. Turner, LS:70:149
Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826
Camanche Dike-2 Slurry Trench Seepage Cutoff, Walter F. Anton and David J. Dayton, PES:72:I-735
Capillarity and Seepage from an Array of Channels, John C. Bruch, Jr., EM6:Dec 69:1403:6972
Controlling Salinity by Lining Distribution System, Wynn R. Walker, IRS:Sept 72:113
Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553
Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, Raul J. Marsal and Daniel Resendiz, 4PCSM:71:I237
End Effects in Models for Seepage Below Weirs, S. Muthukumaran and V. C. Kulandaiswamy, HY3: Mar 72:541:8794
Estimating Soil Permeability Rates, Merlin E. Horn, IR2:June 71:263:8169
Evaluating Foundation Seepage Problems, Ernest L. Dodson, IMROD:Sept 73:609
Exact Flow Rates from Dupuit's Approximation, Bruce W. Hunt, HY3:Mar 70:633:7140
The Failure of Laguna Dam, Raul J. Marsal and Wolfang Pohlenz, PES:72:I-489
Field Solutions for Turbulent Seepage Flow, Alan K. Parkin, SM1:Jan 71:209:7794
'Filter-Fin' Multiplies Drain Effectiveness, Kent A. Healy and Richard P. Long, CE:Apr 74:50
Finite-Element Analysis of Seepage in Elastic Media, Ranbir S. Sandhu and Edward L. Wilson, EM3: June 69:641:6615

Finite-Element Analysis of Seepage Through Dams, W. D. Liam Finn, SM6:Nov 67:41:5552
Flow Around Inclined Sheet Pile, Annapareddy Siva Reddy, Govinda Chandra Mishra and Kyatsandra Seetharamiah, HY7:July 71:1101:8248
Flow Through Rockfill Dam, Horace A. Johnson, SM2:Feb 71:329:7914
Foundation Construction Problems at Corps of Engineers Projects, Paul R. Fisher, John C. Bowman, Jr. and Benjamin I. Kelly, Jr., EFFD:Mar 74:121
Foundation Seepage Control Options for Existing Dams, Lloyd R. Gebhart, IMROD:Sept 73:660
Foundations of Existing Dams -- Seepage Control, James E. Ley, IMROD:Sept 73:584
Future of Ground Water in African Sahara Desert, Hammad Y. Hammad, IR4:Dec 69:563:6986
Hills Creek Dam Seepage Correction, John D. Jenkins and Duane E. Bankofier, PES:72:I-723
Hydrodynamic Effects of Seepage on Bed Particles, Gary Z. Watters and Manam V.P. Rao, HY3:Mar 71:421:7973
Hydrodynamics of Surface Irrigation - Advance Phase, John G. Sakkas and Theodor S. Strelkoff, IR1:Mar 74:31:10422
Inverse Solution to Three-Dimensional Flows, Roland W. Jeppson, EM4:Aug 72:789:9110
Investigations into Control of Seepage, Walter G. Brusey, IMROD:Sept 73:616
Keynote Address: The Performance of Earth Structures and Foundations, T. William Lambe, 4PCSM:72:III7
Los Nogales Dam - Effectiveness of the Curtain (In Spanish), Carlos A. Micucci, Hugo Scolaro, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II309
Manicouagan 3 Cut-Off, Yves Pigeon, EFFD:Mar 74:289
Mattmark — A Dam Founded on Alluvial and Morainic Deposits, Bernhard E. Gilg, EFFD:Mar 74:215
A Monte Carlo Approach to Seepage in Jointed Rock, William E. Kelly, RM13:72:227
New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956
Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73:603:9912
Numerical Analysis of Free Surface Seepage Problems, Peter W. France, Chandrakant J. Parekh, John C. Peters and Cedric Taylor, IR1:Mar 71:165:7959
Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546
Performance Of Nonhomogeneous Clay Core, Remy L.A. de Jong, TN: SM8:Aug 72:855:9085
Performance Record of Walter F. George Lock and Dam, Robert L. Crisp, Jr., PES:72:I-691
Phreatic Surface Location after Drawdown, Arthur H. Dvinoff and Milton E. Harr, SM1:Jan 71:47:7806
Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589
Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543:9422
Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687
Programming for Pavlovsky's Ground-Water Problem, George T. Papadopoulos and Joakim G. Laguros, IR1:Mar 68:49:5840
Radial Dispersion in Ground-Water Flow, Bruce W. Hunt, EM6:Dec 74:1117:10998
A Review of TVA's Problems and Treatment of Foundations of Existing Dams, Lloyd W. Lundin, IMROD:Sept 73:641
Role of Bedrock in Watershed Management, Walter F. Megahan, IR73:Aug 73:449
Role of Water Delivery System in Water Quality, Gaylord V. Skogerboe, IRS:Sept 72:101
Salt Penetration Technique for Seepage Measurement, Herman Bouwer and R. C. Rice, IR4:Dec 68:481:6304
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201
Sealing Leaks in Pipelines with Ammoniated Waters, Kenneth K. Tanji, L. D. Doneen and J. V. Kubes, IR1:Mar 69:171:6473
Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171
Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
Seepage Characteristics of Imperfect Cutoffs, Francis G. McLean and Raymond J. Krizek, TN: SM1:Jan 71:305:7787
Seepage Control in the Rio Jaguari Dam and Dike, Lincoln de A. Queiroz, Hamilton G. de Oliveira, Ruy Taiji Mori and Francisco Nazario, 4PCSM:71:II293
Seepage Effect on Channel Bank Stability, Philip H. Burgi and Susumu Karaki, IR1:Mar 71:59:7968
Seepage Force on Interfacial Bed Particles, C. Samuel Martin and Mustafa M. Aral, HY7:July 71:1081:8239
Seepage from Recharge and Landfill Ditches, Paul A. Witherspoon and T. N. Narasimhan, IR73:Aug 73:39
Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875
Seepage From Shallow Reservoir, Bruce W. Hunt, HY1:Jan 73:23:9476
Seepage from Trapezoidal Channels, Satya P. Garg and Amrik S. Chawla, HY6:June 70:1261:7335
Seepage from Trenches Through Nonhomogeneous Soils, Ahmed El Nimur and Robert L. Street, IR1:Mar 72:13:8777
Seepage into a Sheet Pile Cofferdam, B. S. Rama Rao and J. Visweswara Rao, HY9:Sept 73:1515:10001
Seepage Study Using Electrical Analog, Heinz Stefan and Johannes Meyer, HY2:Feb 70:411:7064
Seepage Through Dams with Horizontal Toe Drain, Mohammad S. Moayeri, SM5:May 72:461:8878
Seepage Through Soil-Cement Facings, Glenn DeGroot, PES:72:I-751
Seepage Through Triangular Dam Without Tailwater, Michael A. Collins, TN: SM9:Sept 71:1355:8391
Seepage Towards Highway Cuts, Abdel-Aziz I. Kashef, TE4:Nov 69:667:6912
Similitude Criteria for Flow from Unconfined Aquifers, Rameshwar D. Verma and Wilfried Brutsaert, HY9:Sept 71:1493:8397
Site Evaluation and Design of Seepage Fields, Kent A. Healy and Rein Laak, EE5:Oct 74:1133:10882
Stability of Old Dams as Related to Their Foundations, Karl V. Taylor, IMROD:Sept 73:688
Steady and Unsteady Flow Towards Gravity Wells, Mohammad Ali Mahdaviani, HY6:Nov 67:135:5581
Steady Seepage Toward Circle of Finite Radius, Bruce W. Hunt, TN: EM2:Apr 71:599:8017
Studies on Seepage from Canals with Partial Lining, Kanakatti Subramanya, Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333:10197
Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141:8738
Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243
Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72:211:8737
Triangular Blankets Reduce Earthdam Seepage, Dalim K. Majumdar, TN: SM6:Nov 70:2191:7646
Unconfined Transient Seepage in Sloping Banks, Chandrakant S. Desai and Walter C. Sherman, Jr., SM2:Feb 71:357:7915
Unsteady Drawdown in Well Groups, Raymond J. Krizek, Gabor M. Karadi and D. Babu Rao, HY10:Oct 71:1625:8436

Unsteady Flow to Bottom Drain in Bounded Aquifer, Raymond J. Krizek, Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807

Unsteady Seepage Toward Narrow Ditch, Bruce W. Hunt, HY10:Oct 70:1953:7586

Unsteady Seepage Toward Sink Beneath Free Surface, Bruce W. Hunt, HY4:Apr 70:859:7202

Vertical Recharge of Unconfined Aquifer, Bruce W. Hunt, HY7:July 71:1017:8257

Volume of Snowmelt Intercepted by Logging Roads, Edward R. Burroughs, Jr., Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770

When is Foundation Seepage Unsafe?, William A. Clevenger, IMROD:Sept 73:570

Seepage Control

Evaluating Foundation Seepage Problems, Ernest L. Dodson, IMROD:Sept 73:609

Foundation Seepage Control Options for Existing Dams, Lloyd R. Gebhart, IMROD:Sept 73:660

Investigations into Control of Seepage, Walter G. Brusey, IMROD:Sept 73:616

A Review of TVA's Problems and Treatment of Foundations of Existing Dams, Lloyd W. Lundin, IMROD:Sept 73:641

Stability of Old Dams as Related to Their Foundations, Karl V. Taylor, IMROD:Sept 73:688

Stone Asphalt Cores Waterproof French Dams, Victorien Lelu, CE:Apr 72:70

Segmented Elements

First Segmental Bridge in U.S., Wayne Henneberger and John E. Breen, CE:June 74:54

Pine Valley Creek--a First, A. P. Bezzone, CE:Aug 74:72

Seiches

Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222

Decay of Mass Oscillations in Rectangular Basins, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY1: Jan 74:119:10261

Excitation of Waves Inside a Bottomless Harbor, Noboru Sakuma, Johannes Buhler and Robert L. Wiegel, CE13:72:III-2005

Full Scale Observation of the Behavior of Moored Ships, Basil W. Wilson, BMS:71:117

Probabilistic Aspects of Seiche Action on Ships, Francis Biesel, BMS:71:27

Seiches and Other Causes of the Motion of Ships Already Moored, Basil W. Wilson, BMS:71:1

Seiches and Other Causes of the Motion of Ships Already Moored, John T. O'Brien, BMS:71:20

Use of Models for the Study of the Behavior of Moored Ships, Francis Biesel, BMS:71:136

Seismic Design

Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127

Analysis and Design of Nuclear Power Plant Structures, Peter K. Ho and Milomir Stoykovich, SDNPF:Dec 73:365

Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291

Architectural Seismic Detailing, State-of-Art Report 3, Ormond Robert Berry, TB:73:Ia-12-1115

Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950

Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings, Jay L. Smith and Dennis K. Ostrom, PO1:July 74:1:10652

Aseismic Design of Buildings, Jai Krishna, TB:73:Ib-6-299

The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE: Aug 72:55

Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182

Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89

Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462

Comparative Study of Soil Spring and Finite Element Models for Seismic Soil-Structure Interaction Analysis of Nuclear Power Plants, P. K. Agrawal, Shih-Lung Chu and Hemant H. Shah, SDNPF:Dec 73:63

Current Program of Seismic Safety, Elmer W. Stroppini, IMROD:Sept 73:786

Current Programs for Seismic Safety -- Bureau of Reclamation, Richard W. Kramer, IMROD:Sept 73: 795

Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, R. P. Kassawara and D. A. Peck, SDNPF:Dec 73:73

Earthquake Finite Element Analysis of Structure-Foundation Systems, Ashok K. Vaish and Anil K. Chopra, EM6:Dec 74:1101:10990

Earthquake Ground Motion, State-of-Art Report I, George W. Housner, TB:73:Ib-6-159

Earthquake Hydrodynamic Forces on Arch Dams, Parambakatoor R. Perumalswami and Lakshmidhar Kar, EM5:Oct 73:965:10060

Earthquake Time Histories and Response Spectra, Robert H. Scanlan and Klaus Sachs, EM4:Aug 74: 635:10703

Economic Basis for Seismic Resistance, Herbert A. Sawyer, TB:73:Ib-6-319

Effects of Parameter Variations on Floor Response Spectra, L. K. Liu, C. L. Child and B. Nowotny, SDNPF:Dec 73:435

Empresa Nacional de Electricidad S. A. - Endesa's Building, Luis Larraguibel, TB:73:C-P-478

Foundation Compliance Effects on Earthquake Response Spectra, Alberto Castellani, SM4:July 70: 1335:7425

General Report on Seismic Hazards and Problems, H. Bolton Seed, Julio E. Valera, Rudy J. Dietrich and Walter F. Anton, IMROD:Sept 73:745

General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67

Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29

Hydrodynamic Effects in Earthquake Response of Gravity Dams, P. Chakrabarti and Anil K. Chopra, ST6:June 74:1211:10616

Inelastic Structural Response to 2D Ground Motion, David A. Pecknold, EM5:Oct 74:949:10846

Influence of Closely Spaced Modes in Response Spectrum Method of Analysis, A. K. Singh, Shih-Lung Chu and Surendra Singh, SDNPF:Dec 73:479

Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65

Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267

Modal Damping in Dynamic Analysis of Structures, Kao Ding Chiu and Hung Jen Kuo, SDNPF:Dec 73:499

A New Approach to Soil-Structure Interaction Problems, Achyut V. Setlur, Jagannath K. Khanna and M. Valathur, SDNPF:Dec 73:139

Nuclear Power Plant Siting on Deep Alluvium, Ronald F. Scott and Jack J. Schoustra, GT4:Apr 74:449:10497

An Owner's Program for the Investigation and Analysis of Its Dams, Richard B. Roche, Jr., IMROD:Sept 73:516

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Potentially Active Faults in Dam Foundations, James L. Sherard, IMROD:Sept 73:768

Quake Lesson from Managua: Revise Concrete Building Design, Mark Fintel, CE:Aug 73:60

Report on Conference on 1971 San Fernando, Ca., Earthquake, David J. Leeds, CE:May 72:58

Rotonda Vitacura Building, J. Aguirre and A. Aguirre, TB:73:C-P-482

Seismic Analysis and Design of the San Onofre Nuclear Generating Station, Units 2 and 3 Containment, Jay W. Wiley, Jr., Kenneth M. Schechter, Don L. Price and P. W. Koss, EPCE: Aug 74:13

Seismic Analysis of Expanded Clay Lightweight Concrete Frames, A. Negoita and Ion G. Pop, TB: 73:III-21-247

Seismic Analysis of Nuclear Power Plant Structures, Richard N. Bergstrom, Shih-Lung Chu and Robert J. Small, PO2:Mar 71:367:7977

Seismic Analysis of Underground Structural Elements, Hemant H. Shah and Shih-Lung Chu, PO1:July 74:53:10648

Seismic Behavior of Multistory Braced Steel Frames, Subhash C. Goel and Robert D. Hanson, ST1:Jan 74:79:10288

Seismic Design and Analysis of Nuclear Plant Components, Milomir Stoykovich, SDNPF:Dec 73: 1

Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305: 10145

Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135

Seismic Design of Nonstructural Elements, Roland L. Sharpe, TB:73:Ia-12-1143

Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142

Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73: 281:10164

Seismic Resistant Design of Safety Class Structures and Equipment, Chang Chen, SDNPF:Dec 73:459

Seismic Response by Variable Damping Finite Elements, Izzat M. Idriss, H. Bolton Seed and Norman Serff, GT1:Jan 74:1:10284

Seismic Response of One Story X-Braced Frames, Enrique Bazan and Emilio Rosenblueth, TN: ST2: Feb 74:489:10341

Seismic Safety Study of Henshaw Dam, Charles G. Wolfe, IMROD:Sept 73:871

Simplified Procedure for Evaluating Soil Liquefaction Potential, H. Bolton Seed and Izzat M. Idriss, SM9: Sept 71:1249:8371

Site Related Design Considerations for Standardized Nuclear Power Plant Design, Edward A. Sweeney, SDNPF:Dec 73:415

Soil-Structure Systems, Akbar R. Tamboli, TB:73:Ib-6-318

Some Problems with the Calculation of Seismic Forces on Equipment, Asadour H. Hadjian, SDNPF:Dec 73:1

Some Seismic Studies of Old Dams, Jerry A. Jedlicka, IMROD:Sept 73:840

Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807

Structural Design of Fukushima No. 6 and Tokai No. 2 Nuclear Power Plants, Hsiang-Sheng Chang, SDNPF:Dec 73:391

Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343

Structure-Foundation Interaction of Nuclear Power Plant Structure During Earthquakes, R. Joe Hunt, SDNPF:Dec 73:119

Three Dimensional Soil-Structure Seismic Analysis Using Finite Elements, Surendra Singh, Ramachandran Srinivasan, P. K. Agrawal and Shih-Lung Chu, SDNPF:Dec 73:43

Seismic Detection

Isopachous Mapping of the Lower Patuxent Estuary Sediments by Continuous Seismic Profiling Techniques, Newell T. Stiles and Donald R. Wiesnet, 12CEC:71:669

Seismic Investigations

General Slope Stability Analysis, James M. Bell, SM6:Nov 68:1253:6222

In Situ Shear Wave Velocity by Cross-Hole Method, Kenneth H. Stokoe, II and Richard D. Woods, SM5:May 72:443:8904

New Applications of Seismic Investigations to Engineering Problems, Phillip Romig, EFSE:Aug 74:144

Performance Instrumentation Installed in Oroville Dam, John E. O'Rourke, GT2:Feb 74:157:10363

Response of Nonuniform Soil Deposits to Traveling Seismic Waves, Houshang Dezfulian and H. Bolton Seed, SM1:Jan 71:27:7808

Seismic Response of Horizontal Soil Layers, Izzat M. Idriss and H. Bolton Seed, SM4:July 68:1003:6043

Seismic Response of Soil Deposits Underlain by Sloping Rock Boundaries, Houshang Dezfulian and H. Bolton Seed, SM6:Nov 70:1893:7659

Some Seismic Studies of Old Dams, Jerry A. Jedlicka, IMROD:Sept 73:840

Seismic Properties

Ductility and Seismic Response, Vitelmo V. Bertero, TB:73:Ib-6-303

Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72: 273:9242

Motion-Reducing Device Under Seimic Excitation, Paul H. Wirsching and James T.P. Yao, TN: EM1: Feb 72:285:8687

Seismic Design and Analysis of Nuclear Plant Components, Milomir Stoykovich, SDNPF:Dec 73: 1

Seismic Refraction

Tsunami Refraction Diagrams by Digital Computer, Garbis H. Keulegan and John Harrison, WW2:May 70:219:7261

Seismic Refraction Method

New Applications of Seismic Investigations to Engineering Problems, Phillip Romig, EFSE:Aug 74:144

Seismic Stability

Dynamic Characteristics of Soil-Structure Systems, State-of-Art Report 2, H. Bolton Seed, TB:73:Ib-6-177

General Report on Seismic Hazards and Problems, H. Bolton Seed, Julio E. Valera, Rudy J. Dietrich and Walter F. Anton, IMROD:Sept 73:745

Stresses in an Earth Dam due to Contruction and Reservoir Filling, Julio E. Valera and Jian C. Chen, GT74:June 74:33

Seismic Studies

A New Kind of Ground Motion, G. Rudolfo Saragoni, TB:73:Ib-6-323

Rating of Ground Motion, Arturo Arias, TB:73:Ib-6-320

Simulated Seismic Loading of Spandrel Beams, Thomas Paulay, ST9:Sept 71:2407:8365

Seismic Surveys

Performance Instrumentation Installed in Oroville Dam, John E. O'Rourke, GT2:Feb 74:157:10363

Seismic Effects on Earth Dam from Explosion, Lyman W. Heller, TN: SM11:Nov 73:1038:10/48

Seismic Waves

Response of Nonuniform Soil Deposits to Traveling Seismic Waves, Houshang Dezfulian and H. Bolton Seed, SM1:Jan 71:27:7808

Seismic Response of Horizontal Soil Layers, Izzat M. Idriss and H. Bolton Seed, SM4:July 68:1003:6043

Seismic Shear Waves in Engineering, Harold M. Mooney, GT8:Aug 74:905:10745

Seismology

Managua Earthquake: Lessons Learned, Hudson W. Smith, CE:Sept 74:102

Selection

Selection/Design of Shotcrete for Temporary Support, Ronald E. Heuer, SUSS:July 73:160

Selective Level Releases

Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73:1401:10018

Sensitivity

Alternative Water Resource Systems in the Lower Mekong, Kanchit Chaemsaithong, Lucien Duckstein and Chester C. Kisiel, HY3:Mar 74:461:10430

Causes of Clay Sensitivity, James K. Mitchell and William N. Houston, SM3:May 69:845:6568

Property Interrelationships in Sensitive Clays, William N. Houston and James K. Mitchell, SM4:July 69:1037:6666

Septic Tanks

Site Evaluation and Design of Seepage Fields, Kent A. Healy and Rein Laak, EE5:Oct 74:1133:10882

Sequencing

Optimality of Heuristic Sequencing Technique, Thomas L. Morin, TN: HY8:Aug 74:1195:10748

Series (Mathematics)

Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73:1283:10207

Application of Dual Series to Rectangular Plates, Kraiwood Kiattikomol, Leon M. Keer and John Dundurs, EM2:Apr 74:433:10486

Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73:1023:10054

Service Life

Inspect Bridges Now, Avoid Problems Later, Chester F. Comstock, CE:Nov 71:66

Spatial and Temporal Variability of Live Loads, Jong-Cherng Peir and C. Allin Cornell, ST5:May 73:903:9747

Services

Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327

Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307

Sources of Computer Programs, Kneeland A. Godfrey, Jr., CE:June 74:51

Settlement (Structural)

Accuracy of Field Deformation Measurements, James P. Gould and C. John Dunnicliff, 4PCSM:71:I313

The Allowable Settlement and the Design of Foundations, Fernando Emmanuel Barata, 4PCSM:71:II197

The Allowable Settlement of Structures, Hugh Q. Golder, 4PCSM:71:I171

Analyses and Records -- Dutch Hollow Dam, Kenneth H. Kastman, PES:72:I-285

An Analysis of Consolidation Theories, Robert L. Schiffman, Albert T-F Chen and Jane C. Jordan, SM1:Jan 69:285:6370

Analysis of Load-Bearing Fills over Soft Subsoils, James K. Mitchell and William S. Gardner, SM11:Nov 71:1549:8522

Analysis of Observed Embankment Performance in Terms of Effective Stress, Koichi Akai, Masahiko Komatsu and Masanari Tominaga, PES:72:I-341

An Analysis of the Cracking at Duncan Dam, Zdenek Eisenstein, A. V.G. Krishnayya and Norbert R. Morgenstern, PES:72:I-765

The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551

Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71:1675:8577

Building Settlement on End-Bearing Driven Piles, Amos Komornik, Gdalyah Wiseman and Joseph G. Zeitlen, PES:72:I-1135

Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826

Circular Discontinuously Braced Excavation (In Spanish), Andres Perez M., 4PCSM:71:II203

Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908

Consolidation of a Layer Under a Strip Load, John T. Christian, Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030

Constructional Deformations in Rockfill Dam, Arthur D. Penman and Andrew Charles, SM2:Feb 73:139:9560

Corps of Engineers Dam Inspection Program, James A. Rhodes, IMROD:Sept 73:61

Decision Theory Applied to Settlement Predictions, Joseph I. Folayan, Kaare Hoeg and Jack R. Benjamin, SM4:July 70:1127:7390

Design and Performance of Deep Foundations, Bramlette McClelland, PES:73:II-111

Design and Performance of Deep Foundations -- Reporter's Summary, Pablo Girault, PES:73:III-211

Design of Compensated Foundations, State-of-Art Report 1, Leonardo Zeevaert, TB:73:Ia-11-853

Differential Settlement of Buildings, Rebecca Grant, John T. Christian and Erik H. Vanmarcke, GT9:Sept 74:973:10802

Dynamic LoadingP, Elio E. D'Appolonia, PISST:71:141

Dynamic Loadings, Elio E. D'Appolonia, SM1:Jan 70:49:7010

Dynamic Strip Load On Elastic-Plastic Soil, Kaare Hoeg and H. A. Balakrishna Rao, SM2:Mar 70:429:7138

Earthquake Induced Settlements in Saturated Sands, Kenneth L. Lee and Aurelio Albaisa, GT4:Apr 74:387:10496

Effects of Foundations on Adjacent Structures, State-of-Art Report 3, Endre Horvat and Cornelius van der Veen, TB:73:Ia-11-905

Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206

Embankments on Soft Ground, Laurits Bjerrum, PES:73:II-1

Embankments on Soft Ground -- Reporter's Summary, William H. Perloff, PES:73:III-49

Experimental Behavior of Downdrag in Deep Foundations, Robert M. Koerner, TN: SM2:Feb 71:515:7860

Field Studies of Response of Peat to Plate Loading, J. B. Forrest and I. C. MacFarlane, SM4:July 69:949:6652

Finite Difference Analyses for Sand Drain Problems, Roy E. Olson, David E. Daniel and Thomas K. Liu, GT74:June 74:85

Floating Foundations for Control of Settlement, David J. D'Appolonia and T. William Lambe, SM6:June 71:899:8215

Foundation Construction on Compacted Structural Fill in the Washington, D.C. Area, James J. Schnabel, PES:72:I-1019

Foundation Design of the Waterford Nuclear Plant, Joseph L. Ehasz, Jr. and E. Radin, SDNPF:Dec 73:83

Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026

Foundation Failure, Jacob Feld, CE:June 73:89

Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290

Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051

Heave and Lateral Movements Due to Pile Driving, D. Joseph Hagerty and Ralph B. Peck, SM11:Nov 71:1513:8497

Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653

Initial Settlement of Structures on Clay, David J. D'Appolonia, Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438

The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991

Interactive Graphics: Settlement & Slope Stability, Robert L. Schiffman and Jack R. Stein, EC5:70:407

KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41
Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435
Lumped Parameter Beams Based on Impedance Methods, Richard D. Ellison, Elio E. D'Appolonia and Gerald R. Thiers, SM4:Apr 71:661:8052
Measuring Building Movement by Precise Survey, J. David Reynolds and John A. Dearinger, SU1:Apr 70:87:7228
Method for Predicting Initial Settlement, David J. D'Appolonia and T. William Lambe, SM2:Mar 70:523:7167
Nonlinear Analysis of Stress and Strain in Soils, James M. Duncan and Chin-Yung Chang, SM5:Sept 70:1629:7513
Performance of Muddy Run Embankment, Stanley D. Wilson and David Marano, SM4:July 68:859:6026
Performance of Two Mat Foundations on Boston Blue Clay, Salvatore V. DeSimone and James P. Gould, PES:72:I-953
Planning and Performing Compaction Grouting, James Warner and Douglas R. Brown, GT6:June 74:653:10606
Precompression for Improving Foundation Soils, Stanley J. Johnson, PISST:71:53
Preloading for Heavy Industrial Installations, Panaghiotis C. Kotzias and Aris C. Stamatopoulos, SM6:Nov 69:1335:6902
Preloading for Heavy Industrial Installations, Panaghiotis C. Kotzias and Aris C. Stamatopoulos, PISST:71:321
A Preload of Silty Fine Sand, Warren L. Schroeder and Edward G. Worth, PES:72:I-379
Randomness of Settlement Rate under Stochastic Load, Eduardo E. Alonso and Raymond J. Krizek, EM6:Dec 74:1211:11027
Reclaimed Land in Kawasaki City, Japan, T. William Lambe, SM5:Sept 69:1181:6780
Review of Collapsing Soils, John H. Dudley, SM3:May 70:925:7278
Seasonal Deformation of 2-Mile Straight Line, Joseph J. Spranza and Amos M. Nur, SM12:Dec 71:1623:8586
Settlement Analysis of Two Highway Embankments, Hon-Hsieh Su and Rogel W. Prysock, PES:72:I-465
Settlement Around Shield Driven Tunnels (In Spanish), Jose Tinajero Saenz and Luis Vieitez Utesa, 4PCSM:71:II225
Settlement Control for Cosmotron Base, Jacob Feld, 4PCSM:71:II189
Settlement Due to Chemical Attack of Soils, Robert G. Lukas and Robert J. Gnaedinger, Jr., PES:72:I-1087
Settlement Histories of Four Large Tanks on Sand, Melvin T. Davisson and James R. Salley, PES:72:I-981
Settlement Histories of Two Pile Supported Grain Silos, Melvin T. Davisson, PES:72:I-1155
Settlement of a Large Mat on Sand, Joseph A. Fischer, James T. Dette and Harcharan Singh, PES:72:I-997
Settlement of Building on Deep Compressible Soil, Peter J. Moore and Graham K. Spencer, SM3:May 69:769:6547
Settlement of Building on Pile Foundation in Sand, Robert M. Koerner and Antal Partos, GT3:Mar 74:265:10405
Settlement of Buildings Constructed in Hackensack Meadows, Herbert L. Lobdell, SM4:July 70:1235:7398
Settlement of Embankment on Layer of Soil, Jean-Pierre Giroud and Andre Rabatel, TN: SM1:Jan 71:287:7787
Settlement of Footings on a Non-Uniform Foundation, C. Robert Lennertz, PES:72:I-929
Settlement of Pile Foundations in Granular Soil, Gerald A. Leonards, PES:72:I-1169
Settlement of Pile Groups Bearing on Stiffer Strata, Harry G. Poulos and Neil S. Mattes, TN: GT2:Feb 74:185:10310
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090
Settlement Of Rectangular Foundation On Soil Layer, Jean-Pierre Giroud, TN: SM1:Jan 72:149:8618
Settlement of Some Piled Foundations in Mexico, Pablo Girault, PES:72:I-1185
Settlement of Strip Load On Elastic-Plastic Soil, Kaare Hoeg, John T. Christian and Robert V. Whitman, SM2:Mar 68:431:5850
Settlement of Two Tanks on Loose Cohesionless Soil, Leonard J. Langfelder and David W. Johnston, 4PCSM:71:II15
Settlement Problem Oriented Computer Language, Robert L. Schiffman, Robert V. Whitman and Jane C. Jordan, SM2:Mar 70:649:7178
Settlements Development: Observed Versus Predicted, Abraham Ellstein, PES:72:I-1073
Settlements Near Excavations (In Spanish), Jesus Alberro A., 4PCSM:71:II211
Settlements of Pile Groups, Bengt B. Broms, PES:73:III-181
Settlements of Steel Tanks Founded on Clays (In Spanish), O. A. Varde, E. Nunez, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II179
Shallow Foundations, Douglas C. Moorhouse, PES:73:II-71
Shallow Foundations -- Panel Presentation, Carl B. Crawford, PES:73:III-165
Simplified Method to Calculate Settlement Beneath Footings, Max L. Calhoon, CE:Feb 72:73
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273
Soil-Structure Interaction for Tall Buildings, State-of-Art Report 5, John T. Christian, TB:73:Ia-11-967
Soil-Structure Interaction for Tall Buildings, John A. Focht, Jr., TB:73:Ia-11-1008
Soil-Structure Interaction -- Opening Remarks, Ralph B. Peck, PES:73:III-249
Sports Palace for 1968 Olympic Games, D. R. Fernandez, CE:Oct 69:45
State of Predictive Art in Subsidence Engineering, Barry Voight and William G. Pariseau, SM2:Mar 70:721:7187
Static Cone to Compute Static Settlement Over Sand, James K. Mitchell, SM3:May 70:1011:7302
Substation Over Old Mine Gets Firm Footing, James A. Collins, CE:Dec 73:41
Temperature Effects on Behavior of Port Allen Lock, Gerald W. Clough and James M. Duncan, PES:72:I-1467
Tests on Instrumented Piles, Ogeechee River Site, Aleksandar Sedmak Vesic, SM2:Mar 70:561:7170
Three-Dimensional Finite Element Analyses of Dams, Guy Lefebvre, James M. Duncan and Edward L. Wilson, SM7:July 73:495:9857
Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Tolerable Settlements of Steam Turbine-Generators, J. Ronald Sallen and Ralph B. Peck, PO2:Oct 69:227:6841
Uncertainty, Safety, and Decision in Soil Engineering, Tien H. Wu, GT3:Mar 74:329:10434
Use of Shotcrete for Tunnelling in Difficult Grounds, Pericle Quadrio Curzio, Glauco Barazzoni, Fiorenzo Nobili and Alessio Anselmi, SUSS:July 73:79
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald L. York, CE:Aug 73:56

Settlement Records

Differential Settlement of Buildings, Rebecca Grant, John T. Christian and Erik H. Vanmarcke, GT9:Sept 74:973:10802
Performance of Four Foundations on End Bearing Piles, David J. D'Appolonia and T. William Lambe, SM1:Jan 71:77:7807

Settling

The Effect of Solids on Sewage Disinfection, William C. Lee and D. H. Waller, NSCD:71:203

Settling Basins

Boundary Layer Separation Concept of Settling Tanks, Yishu Chiu, EE6:Dec 74:1213:11019
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Philipps, NSCD:71:163
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72: 287:8819
Designing Launders for Settling Tanks, Chesman A. Lee, CE:Aug 71:69
Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051
Effect Of Flocculation On Activated Sludge Settling Behavior, George A. Farnworth and Richard I. Dick, TN: SA5:Oct 72:812:9229
The Effect of Solids on Sewage Disinfection, William C. Lee and D. H. Waller, NSCD:71:203
Effects of Desposit Resuspension on Settling Basin, Takeichiro Tåkamatsu, Masaaki Naito, Sadataka Shiba and Yasuyo Ueda, EE4:Aug 74:883:10705

Sewage

Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, Miroslaw Gorczyca, SA6:Dec 72:987:9458
Fourth Dimension for Urban Environment, Kenneth E. Sorensen, UP1:Apr 71:91:8064
Household Wastewater Characterization, Kenneth Ligman, Neil Hutzler and William C. Boyle, EE1: Feb 74:201:10372
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5: Oct 71:661:8419
In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62
Metals in Wastewater Treatment, William H. Ailor, Jr., EE2:Apr 74:295:10444
New Directions for Wastewater Collection and Disposal, Daniel A. Okun, CWFE:Mar 71:157
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
Plastic Relining of Small-Diameter Pipes, Raymond M. Brenner, SA2:Apr 70:297:7216
Sewage Treatment System Odors and Air Pollutants, Ralph Stone, SA4:Aug 70:905:7456
Sixty Years of Rock Tunneling in Chicago, Milton Pikarsky, CO2:Nov 71:189:8504
Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365: 9879
Virus Removal and Inactivation by Physical-Chemical Waste Treatment, Mark D. Sobsey, Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3:June 73:245:9778
Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103

Sewage Bacteria

Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489: 9944
Marine Monitoring of the Victoria Sewerage System, Norval Balch, Derek V. Ellis and Jack L. Littlepage, CE13:72:III-2117

Sewage Disposal

Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, NSCD:71:585
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72: 287:8819
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72: 869:9434
Diffusion Of Sewage Effluent From An Ocean Outfall, Robert E. Stewart, Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, CEO-II:70: 1151
Diffusion of Sewage Effluent from Ocean Outfall, Robert E. Stewart, Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, SA4:Aug 71:485:8340
Disposal of Domestic Wastewater by Hillside Sprays, Endel Sepp, EE2:Apr 73:109:9673
Electrode Potential Control Of Ocean Outfalls, Werner N. Grune, Philip Quinn and Susan DiPrima, CEO-II:70:1187
Environmental Design for Istanbul Sewage Disposal, Charles G. Gunnerson, EE1:Feb 74:101:10343
Feasibility of Improved Subsurface Disposal, Ronald A. Popkin and Thomas W. Bendixen, SA2:Apr 68: 271:5899
Hydrodynamic Analysis of Sludge Dumped in Coastal Waters, Billy L. Edge, CE13:72:III-2187
Interdisciplinary Planning to Meet Environmental Needs, Frederick J. Clarke, PP4:Oct 72:497:9262
Land Application of Treated Sewage, Kneeland A. Godfrey, Jr., CE:Sept 73:103
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
Muskegon Sprays Sewage Effluents on Land, Eugene I. Chaiken, Stephen Polincsik and Carl D. Wilson, CE:May 73:49
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205: 9971
Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFail, CE:May 72:51
Sixty Years of Rock Tunneling in Chicago, Milton Pikarsky, CO2:Nov 71:189:8504
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9: Sept 73:1531:10004
Stockholm Puts Sewage Plant Underground, Gosta E. Sandstrom and Edlund Strom, CE:Sept 73:78
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37
Swimming Again in Lake Washington, Walter E. Jessup, CE:Mar 72:60
Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73: 133:9783
Wastewater Reclamation and Export at South Tahoe, Russell L. Culp and H. E. Moyer, CE:June 69:38
Water Pollution on the Continental Shelf, John S. Farlow, Lester M. Klashman and Merrill S. Hohman, CEO-II:70:1233
Water Quality and Effluent Standards of Hawaii, Gordon L. Dugan, Reginald H.F. Young and L. Stephen Lau, HY9:Sept 74:1245:10824
What's New in Deep-Well Injection?, Herman Bouwer, CE:Jan 74:58

Sewage Effluents

Art of Agricultural Drainage Design and Costs, Ralph L. Toren, IR73:Aug 73:557
Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5: Oct 73:639:10043
Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, NSCD:71:585
Effects of Wastewaters on Marine Biota, Wheeler J. North, CE13:72:III-2099
Evaluation of Fecal Streptococci Tests for Chlorinated Secondary Sewage Effluents, Shundar Lin, EE2:Apr 74:253:10452
Filtration of Treated Sewage Effluent, George Tchobanoglous and Rolf Eliassen, SA2:Apr 70:243: 7210
Flushing Pattern of Non-reactive Effluents, Adel M. Kamel, 12CEC:71:1867
Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1: Feb 73:73:9557
Land Application of Treated Sewage, Kneeland A. Godfrey, Jr., CE:Sept 73:103
Marine Monitoring of the Victoria Sewerage System, Norval Balch, Derek V. Ellis and Jack L. Littlepage, CE13:72:III-2117

Metals in Wastewater Treatment, William H. Ailor, Jr., EE2:Apr 74:295:10444
Muskegon Sprays Sewage Effluents on Land, Eugene I. Chaiken, Stephen Polincsik and Carl D. Wilson, CE:May 73:49
Simulation of Water Quality in Tarawera River, J. Christopher Rutherford and Michael J. O'Sullivan, EE2:Apr 74:369:10461
Use of Mixing Tubes on Marine Outfalls, Richard Silvester and Mana Patarapanich, CE13:72:III-2171
Utilization of Sewage Effluent for Irrigation, Leonard C. Halpenny, IR73:Aug 73:575
Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103

Sewage Filtration

Least Cost Sand Design for Iron Removal, Jerry Y. C. Huang and E. Robert Baumann, SA2:Apr 71:171:8060
Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51
Tertiary Wastewater Treatment-On Its Way, Ben Sosewitz and Vinton W. Bacon, CE:Nov 69:34
Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103

Sewage Sludge

Chicago's Sludge-Recycling Project Wins 1974 Outstanding Civil Engineering Achievement Award, CE:June 74:43
Hydrodynamic Analysis of Sludge Dumped in Coastal Waters, Billy L. Edge, CE13:72:III-2187
Ocean Dumping: What and Where, If at All?, Eugene E. Dallaire, CE:Nov 71:58
Solidification of Sludges with Portland Cement, E. Alan Cassell and Thomas W. Walker, SA1:Feb 70:15:7053
Water and Sewage Sludge Absorption by Solid Waste, Ralph Stone and Richard L. Kahle, SA5:Oct 72:731:9250
Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, Alexander Penman, CE:Nov 73:65

Sewage Treatment

Aeration System for Large Navigable Rivers, William Whipple, Jr. and Shaw L. Yu, SA6:Dec 71:883:8601
Alternate Methods of Wastewater Disinfection, John R. Elwood, Russell H. Isaac and Martin Weiss, NSCD:71:189
Analytic and Process Classification of Effluents, T. Helfgott, J. V. Hunter and D. Rickert, SA3:June 70:779:7374
Animal Wastes--A National Problem, Raymond C. Loehr, SA2:Apr 69:189:6493
Attitudes in Sludge Treatment and Disposal, Richard I. Dick, EE5:Oct 74:1077:10844
Automatic Water and Waste Treatment Plants in Operation, Ralph Stone and E. T. Conrad, CE:May 70:37
Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
Bactericidal Disinfectant Testing by Micromethods, Winfred F. Maline, Theodore F. Wetzler and Lloyd G. Herman, NSCD:71:307
Biological Control Of Intestinal Bacteria and Viruses, Ralph Mitchell, CEO-II:70:1241
Burying Your Pickle Liquor Disposal Problem, D. R. Smith, CE:Nov 69:37
Characterization of Time-Varying Organic Loads, Alfred T. Wallace and Donald M. Zollman, SA3:June 71:257:8167
Character of Sludge Drying, J. Charles Jennett and Israel W. Santry, Jr., SA5:Oct 69:849:6833
Chemical Treatment, Walter J. Weber, Jr. and Tom H. Forrest, CWFE:Mar 71:183
Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, NSCD:71:585
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Philipps, NSCD:71:163
Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489:9944
Defined Velocity Gradient Model Flocculator, Francois A. Van Duuren, SA4:Aug 68:671:6076
The Design and Economics of Joint Wastewater Treatment Facilities, W. Wesley Eckenfelder, Jr. and Carl E. Adams, Jr., CWFE:Mar 71:291
Design and Economics of Joint Wastewater Treatment, W. Wesley Eckenfelder, Jr., SA1:Feb 72:153:8746
Design Capacities to Accommodate Forecast Uncertainties, Paul M. Berthouex and Lawrence B. Polkowski, SA5:Oct 70:1183:7633
Design of Sludge Digestion Tanks, Richard D. Pomeroy, SA5:Oct 68:769:6137
Design Principles of Waste Stabilization Ponds, D. Thirumurthi, SA2:Apr 69:311:6515
Dialysis Separation of Sewage Sludge Digestion, Mark J. Hammer and Jack A. Borchardt, SA5:Oct 69:907:6845
Digestion: Concentration-Loading-Time Limits, Ralph H. Clark and V. Darryl Orr, TN: SA5:Oct 72:809:9229
Drying of Sand-Digested Sludge Mixtures, Martin E. Harper and Brian W. Mar, SA2:Apr 70:381:7222
Dynamic Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE4:Aug 74:869:10701
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
The Economic Aspects of Water Pollution Control, James J. Flannery, WQEF:Mar 70:57
Economics of Water Quality and Wastewater Control, Fred E. Case, CWFE:Mar 71:115
Effect Of Flocculation On Activated Sludge Settling Behavior, George A. Farnworth and Richard I. Dick, TN: SA5:Oct 72:812:9229
The Effect of Solids on Sewage Disinfection, William C. Lee and D. H. Waller, NSCD:71:203
Effects of Temperature on Stream Aeration, Ivan Metzger, SA6:Dec 68:1153:6309
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
Enteric Disease Criteria for Recreational Waters, John M. Henderson, SA6:Dec 68:1253:6320
Environmental Engineering Education -- An Employer's View, John E. Ball and John B. Malouf, CEE:Feb 74:1-426
Eutrophication: Causes, Consequences, Correctives (Book Review), William C. Ackerman, CE:Oct 70:20
Evaluation of Anaerobic Denitrification Processes, Daniel F. Seidel and Ronald W. Crites, SA2:Apr 70:267:7211
Evaluation of Fecal Streptococci Tests for Chlorinated Secondary Sewage Effluents, Shundar Lin, EE2:Apr 74:253:10452
Evaluation of Some Stabilization Ponds in India, R. H. Siddiqi and B. K. Handa, SA1:Feb 71:91:7912
An Evaluation of the Bachelor of Technology Program, C. Kenneth Myers, CEE:Feb 74:1-239
Faecal Bacterial Kinetics in Stabilization Ponds, Gerrit v.R. Marais, EE1:Feb 74:119:10323
Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965
Filtration of Chlorella Through Dune-Sand, Yair Folkman and Alberto M. Wachs, SA3:June 70:675:7332
Filtration of Treated Sewage Effluent, George Tchobanoglous and Rolf Eliassen, SA2:Apr 70:243:7210
Forty Years of Engineered Construction, Hal W. Hunt, CE:Oct 70:57
Generic Feed Forward Control of Activated Sludge, John J. Davis, Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803
Graphic Dissolved Oxygen Computation, Neal P. Dixon, CE:Mar 71:60

Hydrolysis of Lipids in Wastewater, Gary R. Kramer, SA5:Oct 71:731:8418
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, NSCD:71:365
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5: Oct 71:661:8419
Industrial Sewage in the Weser Estuary, Gunter Luck, CE13:72:III-2137
Instream Aeration: An Alternative to Advanced Waste Treatment, William Whipple, Jr., CE:Sept 70:78
An Integrated Approach to the Problem of Viruses in Water, Gerald Berg, NSCD:71:339
Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1: Feb 73:73:9557
Lagoons for Military Sewage Treatment in South Vietnam, David M. Duttweiler and John A. Burgh, CE:May 69:47
Loading Rates on Waste Stabilization Ponds, Larry W. Carter, Andrew Englande, Jr. and Alfred F. Mauldin, Jr., SA6:Dec 69:1117:6975
Longitudinal Mixing in Spiral Flow Aeration Tanks, Keith L. Murphy and Boris I. Boyko, SA2:Apr 70: 211:7200
Low Temperature Activated Sludge Settling, Sherwood C. Reed and R. Sage Murphy, SA4:Aug 69:747:6747
Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712
Mathematical Evaluation of Gaseous and Dry Heat Treatments, C. R. Stumbo, NSCD:71:469
Multi-Process Plant Treats Both Dilute and Strong Sewage, Peter Procopio, CE:June 74:67
Natural Virus Inactivation Processes in Seawater, Hillel I. Shuval, SA5:Oct 71:587:8427
Need for Improved Operation and Maintenance of Municipal Waste Treatment Plants (Book Review), Paul W. Purdom, CE:May 71:8
A New Analytical Method for Ozone, R. F. Layton and Riley N. Kinman, NSCD:71:285
New Approaches to Wastewater Treatment, Robert L. Stenburg, John J. Convery and Charles L. Swanson, SA6:Dec 68:1121:6296
New Directions for Wastewater Collection and Disposal, Daniel A. Okun, CWFE:Mar 71:157
New Trends in Tertiary Treatment, Vinton W. Bacon and Tom H. Forrest, CWFE:Mar 71:185
New Wastewater Treatment Plant Reuses Its Oil Sludge, James W. Hubbell, CE:Sept 70:81
New Wastewater Treatment Processes: EPA Encourages Adoption, Charles L. Swanson, CE:Sept 71:49
Nitrification Rate in Biological Processes, Ching-San Huang and Ninnian E. Hopson, EE2:Apr 74:409: 10462
Nitrogen Removal By Modified Activated Sludge Process, Srinivasalu Balakrishnan and W. Wesley Eckenfelder, Jr., SA2:Apr 70:501:7236
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
Optimization of the Ion Flotation of Dichromate, Robert B. Grieves, Gregory A. Ettelt, J. Thomas Schrodt and Dibakar Bhattacharyya, SA3:June 69: 515:6610
Oxygen Activated Sludge Selected by Philadelphia, Michael D. Nelson, CE:Apr 74:42
Oxygen Relationships in Intermittent Sand Filtration, Albert B. Pincince and Jack E. McKee, SA6:Dec 68:1093:6295
Oxygen Sewage-Treatment Process Handles Shock Loads, Cuts Odors, R. J. Gozikowski and R. H. Oeler, CE:Aug 74:49
Oxygen Transfer from Falling Water Droplets, Charles E. Carver, Jr., SA2:Apr 69:239:6504
Package Plants-Past, Present and Future, Brian L. Goodman, CE:Feb 69:62
Philadelphia Pilots--Builds Oxygen Activated Sludge, Carmen F. Guarino, Michael D. Nelson and Allan B. Edwards, EE4:Aug 74:919:10722
Phosphate Removal at Baltimore, Maryland, Marion R. Scalf, Fred M. Pfeffer, Lawrence D. Lively, Jack L. Witherow and Charles P. Priesing, SA5:Oct 69: 817:6817
Phosphate Removal: Summary of Papers, Milton Spiegel and Tom H. Forrest, SA5:Oct 69:803:6807
Pilot Plant Testing for Municipal Sewage Treatment, Robert C. Moore, SA2:Apr 70:573:7242
Planning and Control of Combined Sewerage Systems, William R. Giessner, Robert T. Cockburn, Frank H. Moss, Jr. and Mark E. Noonan, EE4:Aug 74:1013:10744
Primary Treatment Followed by Reverse Osmosis, Donald L. Feuerstein and Tom H. Forrest, CWFE: Mar 71:179
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, NSCD:71:137
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
Rationale of Standards for Use of Reclaimed Water, Herbert B. Foster, Jr. and William F. Jopling, SA3: June 69:503:6609
Recent Advances in Determining Free Chlorine, George Patterson Whittle, NSCD:71:269
Recent Approaches for Trickling Filter Design, John M. Baker and Quintin B. Graves, SA1:Feb 68:65: 5798
Recent Paper Industry Waste Treatment Systems, William J. Gillespie, SA2:Apr 70:467:7234
Regional Planning Sewerage Systems, John D. Parkhurst, CWFE:Mar 71:337
Research and Development Needs for Advanced Waste Treatment Process to Serve Future Needs, Francis M. Middleton and Robert L. Stenburg, CWFE:Mar 71:189
Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956
Response of Completely Mixed Systems to Hydraulic Shock Loads, Thazhethil K. George and Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103
Role of Government in Public Works, Peter Corradi, PWS:Nov 72:187
Role of Government in Public Works Development, William Harris, Sir, PWS:Nov 72:167
Salt and Virus Inactivation by Chlorine and High pH, Otis J. Sproul, Robert T. Thorup, David F. Wentworth and James S. Atwell, NSCD:71:385
Scale-Up of Solid Bowl Centrifuge Performance, P. Aarne Vesilind, EE2:Apr 74:479:10474
Septic Tank Systems, Joseph A. Cotteral, Jr. and Dan P. Norris, SA4:Aug 69:715:6735
Sewage Treatment System Odors and Air Pollutants, Ralph Stone, SA4:Aug 70:905:7456
Sewerage and Sewage Treatment: State-of-the-Art Abstracts, Ralph Stone, Chmn., SA4:Aug 70:991: 7477
Simulation of Ammonia Stripping from Wastewater, Joseph F. Roesler, Robert Smith and Richard G. Eilers, SA3:June 71:269:8182
Status of Methods for Halogen Determination (Br-Cl), Frank W. Sollo, Florence F. McGurk and Thurston E. Larson, NSCD:71:245
St. Louis Cleans up the Mississippi, CE:May 72:61
Stormwater Treatment: Four Case Histories, John A. Lager, CE:Dec 74:40
Substrate Removal Mechanism of Trickling Filters, Bruce E. Jank and W. Ronald Drynan, EE3:June 73:187:9769
Surface Aeration Cuts Costs of Waste-Water Treatment Plant, Kenneth D. Miller, CE:Aug 71:41
System Optimization of Waste Treatment Plant Process Design, Chia Shun Shih and John A. DeFilippi, SA2:Apr 70:409:7230
Tertiary Treatment by Flocculation and Filtration, DeFro Tossey, Paul J. Fleming and Ronald F. Scott, SA1:Feb 70:75:7106
Tertiary Wastewater Treatment-On Its Way, Ben Sosewitz and Vinton W. Bacon, CE:Nov 69:34

Theoretical Analysis of Activated Sludge Dynamics, Charles R. Ott and Richard H. Bogan, SA1:Feb 71: 1:7879
Time-Capacity Expansion of Waste Treatment Systems, Thomas M. Rachford, Russell F. Scarato and George Tchobanoglous, SA6:Dec 69:1063:6957
Tools for Water-Resource Study, Julius H. Dawes, IR4:Dec 70:403:7720
Tube Clarification Process, Operating Experiences, Gordon L. Culp, Kou-ying Hsiung and Walter R. Conley, SA5:Oct 69:829:6823
The U.S. Water Quality Program Part II, Eugene E. Dallaire, CE:Oct 71:81
Versatility and Expandability of Pretreatment, Rolf Eliassen and D. F. Coburn, SA2:Apr 69:299:6514
Viability of Long-Storaged Airborne Bacterial Aerosols, Calvin P.C. Poon, SA6:Dec 68:1137:6299
Viral Pollution of Shellfish in Estuary Waters, T. G. Metcalf and W. C. Stiles, SA4:Aug 68:595:6063
Virus Inactivation During Phosphate Precipitation, Dirk R. Brunner and Otis J. Sproul, SA2:Apr 70: 365:7220
Virus Removal and Inactivation by Physical-Chemical Waste Treatment, Mark D. Sobsey, Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3:June 73:245:9778
Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044
Wastewater Reclamation and Export at South Tahoe, Russell L. Culp and H. E. Moyer, CE:June 69:38
Water Supply and Waste Water Districts in Suburbia, Myron K. Nelson and R. L. Chandler, SA2:Apr 70: 593:7247
What Industry is Doing About Pollution Control, Charles Hemming, CE:Sept 71:59
When is Tertiary Treatment the Wrong Solution to a Non-Problem?, Hayman W. Stokes and Lloyd D. Hedenland, CE:Sept 74:86
The 1970's: Civil Engineering Forecast-Part II, Kneeland A. Godfrey, Jr., CE:May 70:41

Sewage Treatment Plants
Centralized Treatment of Industrial Wastewaters, Charles A. Monaghan and Don Simmons, CE:June 73:85
Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85
The Design and Economics of Joint Wastewater Treatment Facilities, W. Wesley Eckenfelder, Jr. and Carl E. Adams, Jr., CWFE:Mar 71:291
Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051
Muskegon Sprays Sewage Effluents on Land, Eugene I. Chaiken, Stephen Polincsik and Carl D. Wilson, CE:May 73:49
Need for Improved Operation and Maintenance of Municipal Waste Treatment Plants (Book Review), Paul W. Purdom, CE:May 71:8
New Pier in Jamaica Bay, Remig A. Papp, CE:Aug 72:52
Polyethylene Pipe Used For 36-in. Sewage Outfall, CE:Oct 72:58
Stockholm Puts Sewage Plant Underground, Gosta E. Sandstrom and Edlund Strom, CE:Sept 73:78
What's new in sewer-pipe—II, Virginia Fairweather, CE:July 74:79

Sewerage
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960

Sewer Pipes
Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050
Sewer Line Design Based on Critical Shear Stress, Kuan M. Yao, EE2:Apr 74:507:10480
What's New in Sewer and Water Pipe, Kneeland A. Godfrey, Jr., CE:May 74:72

Sewers
Capital Cost Minimization of Drainage Networks, Jarir S. Dajani and Yakir Hasit, EE2:Apr 74:325: 10448
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
Combined Sewers and Stormwater Drainage - Today and 2050 AD, Carmen F. Guarino and Joseph V. Radziul, CWFE:Mar 71:349
Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578
Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Construction Of An Ocean Outfall Sewer and the Marine Environment In Its Vicinity, B. V. Elkins, CEO-II:70:413
Dangers of Parallel-Bar Sewer Grates to Bicyclists, David Whitman, BP73:Dec 73:383
Design and Construction of Sanitary and Storm Sewers (Book Review), George M. Sallwasser, CE: June 70:88
Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050
Diffusion Of Sewage Effluent From An Ocean Outfall, Robert E. Stewart, Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, CEO-II:70: 1151
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
Electrode Potential Control Of Ocean Outfalls, Werner N. Grune, Philip Quinn and Susan DiPrima, CEO-II:70:1187
Fourth Dimension for Urban Environment, Kenneth E. Sorensen, UP1:Apr 71:91:8064
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72: 1575:9206
New York City Wastewater System Management, Martin Lang, CWFE:Mar 71:53
Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
Ordering Sewer Design Calculations, Paul M. Berthouex, Gary Wagner and Lawrence J.P. Scully, TN: EE6:Dec 74:1303:10978
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78
The Pressure Sewer: A New Alternative to Gravity Sewers, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, CE:May 74:50
Pressure Sewer Demonstration, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, EE1:Feb 74:25: 10315
Restoring Subsurface Drain Performance, Luther B. Grass and Arnold J. MacKenzie, IR1:Mar 72:97: 8759
Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51
Sanitary Sewer Extension Built Above Ground, R. Andrew Easley, Jr., CE:Apr 71:66
Screening Model for Storm Water Control, Paul H. Krishen and David H. Marks, EE4:Aug 74:807: 10712
Sewage Treatment System Odors and Air Pollutants, Ralph Stone, SA4:Aug 70:905:7456
Sewerage and Sewage Treatment: State-of-the-Art Abstracts, Ralph Stone, Chmn., SA4:Aug 70:991: 7477
Sewer Line Design Based on Critical Shear Stress, Kuan M. Yao, EE2:Apr 74:507:10480
Sixty Years of Rock Tunneling in Chicago, Milton Pikarsky, CO2:Nov 71:189:8504
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37

Sulfuric Acid Attack on Concrete Sewer Pipe, Alvin H. Meyer and William B. Ledbetter, SA5:Oct 70: 1167:7624
Urban Storm Drainage Criteria Manual from Denver, Elmer L. Claycomb, CE:July 70:39
Vancouver Uses Innovative Ways for Placing Large Submarine Pipelines, Doug McKay, Don Gillis and Robin Durward, CE:Oct 74:74
Water Supply and Waste Water Districts in Suburbia, Myron K. Nelson and R. L. Chandler, SA2:Apr 70: 593:7247
What's new in sewer-pipe—II, Virginia Fairweather, CE:July 74:79

Shadows
Sun Shading, Shadows and Effects on Traffic, John S. Gero, TB:73:Ia-1-259

Shafts (Excavations)
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845

Shale
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023
Slides in Residual Soils From Shale and Limestone, Harold T. Whitney, George F. Sowers and B. Roger Carter, 4PCSM:71:II139

Shales
Classification of Argillaceous Soils and Rocks, Norbert R. Morgenstern and Kurt D. Eigenbrod, GT10:Oct 74:1137:10885
Engineering Properties of a Pennsylvania Shale, Gholamreza Mesri and Rocco Gibala, RM13:72:57
Oxidation and Heave of Black Shale, Robert M. Quigley, James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703
Slopes in Stiff-Fissured Clays and Shales, James M. Duncan and Peter Dunlop, SM2:Mar 69:467:6449

Shallow Water
Air Entrainment and Energy Dissipation in Breakers, Alfred Fuhrboter, 12CEC:71:391
Behavior of a Slender Body in Shallow-water Waves, Hsiang Wang and Li-San Hwang, CEC:71:1723
Computation of Storm Surge, Richard Silvester, 12CEC:71:1995
Deformation of Rotational Tidal Currents in Shallow Coastal Water, Harald Gohren, 12CEC:71:2147
Experimental Studies on the Generation of Waves in Shallow Water, C. T. Kuo and Frederick L.W. Tang, 12CEC:71:179
Mathematical Modeling of Large Objects in Shallow Water Waves and Uniform Current, Hsiang Wang, CE13:72:III-1783
Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247: 10236
Shallow Water Wave Characteristics, Winfried Siefert, CE13:72:I-329
Shoaling of Finite Amplitude Long Waves on a Beach of Constant Slope, Yuichi Iwagaki and Tetsuo Sakai, CE13:72:I-347
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Wave Investigations in Shallow Water, Winfried Siefert, 12CEC:71:151

Shape
Shape Factors In Bearing Capacity Equation, Leslie L. Karafiath, TN: SM4:July 70:1493:7387

Shear
Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
Buckling of Light-Gage Corrugated Metal Shear Diaphragms, John T. Easley and David E. McFarland, ST7:July 69:1497:6683
Column-Supported Shear Walls With Openings, L. Cerny, TB:73:III-21-282
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
The Continuum Analysis of Shear-Wall Structures, Riko Rosman, TB:73:III-21-271
Coupled Walls Subjected To Discontinuous Distributed Loads, Ian J. Jordaan and Robert E. Loov, TN: ST7:July 72:1675:9069
Design Aids for Beams with Circular Eccentric Web Holes, Richard G. Redwood and Peter W. Chan, ST2:Feb 74:297:10331
Drained Liquefaction Testing in Simple Shear, Dennison J. Pickering, TN: SM12:Dec 73:1179: 10189
Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920
Finite Element Analysis of Metal Deck Shear Diaphragms, Arthur H. Nilson and Albert R. Ammar, ST4:Apr 74:711:10467
Finite Element Bending Analysis of Reissner Plates, Charles W. Pryor, Jr., Richard M. Barker and Daniel Frederick, EM6:Dec 70:967:7760
Frame Analysis Considering Connection Shear Deformation, Wai F. Chen and David J. Fielding, TB:73:II-15-365
Inelastic Shear Deflection of Steel Beams, Dale G. Eyre, ST10:Oct 73:1985:10052
Linear-Momentum Flux to Overbank Sections, Robert R. Wright and Marion R. Carstens, HY9: Sept 70:1781:7517
Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296
Model Investigations of Shear Wall Structures, Alexander Coull and Andrew W. Irwin, ST6:June 72:1223:8936
Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107: 10041
Prestressed Beams in Torsion, Bending, and Shear, Robert L. Henry and Paul Zia, ST5:May 74:933: 10560
Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363: 9328
Research Regarding the Interaction of Shear Walls and Frames, Constantin N. Avram, Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Tranverse Stiffener Requirements for Curved Webs, Nicholas Mariani, John D. Mozer, Clive L. Dym and Charles G. Culver, ST4:Apr 73:757:9684
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
Turbulence Structure in Plane Couette Flow, James M. Robertson and Henry F. Johnson, EM6:Dec 70: 1171:7754
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27

Shear Distribution
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709

Shear Failure
Comparison of Stress-Dilatancy Theories, George J. W. King and Edward A. Dickin, SM5:Sept 70: 1697:7516
Stability of Cellular Cofferdams Against Vertical Shear, Melvin I. Esrig, SM6:Nov 70:1853:7654

Shear Flow
Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555

Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709
A Field Laboratory for Stratified Flow Studies, P. C. Chang and Anching Lin, ISSF:Aug 72:501
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897: 10119
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
Lift or Across-Wind Response to Tapered Stacks, Barry J. Vickery and Arthur W. Clark, ST1:Jan 72: 1:8634
Some Properties of Turbulence in a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY7:July 72:1101:9009
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109

Shear Modulus
Base Moment for a Class of Linear Systems, Jacobo Bielak, EM5:Oct 69:1053:6810
Deformation Characteristics of Sands Under Cyclic Loading, Marshall L. Silver and H. Bolton Seed, SM8:Aug 71:1081:8334
Displacements and Stresses in Nonhomogeneous Solid, Manoon F. Chuaprasert and Mumtaz K. Kassir, EM5:Oct 74:861:10868
Initial Settlement of Structures on Clay, David J. D'Appolonia, Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438
In Situ Shear Wave Velocity by Cross-Hole Method, Kenneth H. Stokoe, II and Richard D. Woods, SM5:May 72:443:8904
Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092
Seismic Shear Waves in Engineering, Harold M. Mooney, GT8:Aug 74:905:10745
Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
Thixotropic Behavior of Compacted Clays, Donald H. Gray and Nouri A. Kashmeeri, SM1:Jan 71:193: 7857
Time Effects on Dynamic Shear Modulus of Clays, William F. Marcuson, III and Harvey E. Wahls, SM12:Dec 72:1359:9442
Torsion of Multilayered Rectangular Section, John R. Booker and Sritawat Kitipornchai, EM5:Oct 71: 1451:8415
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134

Shear Properties
Analysis of Shear Walls with Openings, Chiyyarath V. Girijavallabhan, ST10:Oct 69:2093:6824
Columns Braced by Girts and a Diaphragm, Tamirisa V.S.R. Apparao, Samuel J. Errera and Gordon P. Fisher, ST5:May 69:965:6576
Dynamic Analysis of Plane Coupled Shear Walls, Wai K. Tso and Ho-Bong Chan, EM1:Feb 71:33: 7899
Dynamic Interaction of a Shear Wall with the Soil, Juan Enrique Luco, EM2:Apr 69:333:6497
Effect of Shear and Load Behavior on Ring Stability, C. V. Smith, Jr. and G. J. Simitses, EM3:June 69: 559:6607
Finite-Element Analysis of Thin Shells, Gerald A. Wempner, J. Tinsley Oden and D. A. Kross, EM6: Dec 68:1273:6259
Frequency Analysis Of Thin-Walled Shear Walls, Arthur C. Heidebrecht and Ravinora K. Raina, EM2:Apr 71:239:8028
New Rectangular Finite Element for Shear Wall Analysis, Iain A. MacLeod, ST3:Mar 69:399:6464
Shear Lag in Stiffened Box Girders, David J. Malcolm and Richard G. Redwood, ST7:July 70: 1403:7409

Shear Resistance
Extension Tests on Soft Clays Without Membranes, T. S. Ramanatha Iyer, TN: SM6:June 73:486:9815
Tidal Motion in Bays, Omar H. Shemdin and R. M. Forney, 12CEC:71:2225

Shear Strain
Compaction of Sands By Repeated Shear Straining, T. Leslie Youd, SM7:July 72:709:9063
Deformation Characteristics of Sands Under Cyclic Loading, Marshall L. Silver and H. Bolton Seed, SM8:Aug 71:1081:8334
Dynamic Prestraining of Dry Sand, Vincent P. Drnevich and Frank E. Richart, Jr., SM2:Mar 70: 453:7160
Internal Piping and Shear Deformation. Victor Braunig Dam -- San Antonio, Texas, Ralph F. Reuss and John W. Schattenberg, PES:72:I-627
Long-term Pressures Effects on Shear Modulus of Soils, Sherif S. Afifi, SM10:Oct 71:1445:8475
Progressive Failure of Excavated Rock Slopes, Nicholas Barton, RM13:72:139
Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72: 381:8844
Structural Analysis of Flexible Airfield Pavements, Richard G. Ahlvin, Yu Tang Chou and Ronald L. Hutchinson, TE3:Aug 74:625:10727

Shear Strength
Analyses and Performance of a Dike on Fibrous Peat, Igor Holubec and Ronald E. Langston, PES: 72:I-415
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
An Approach to the Stability of Rock Slopes Based on the Theory of Limiting Equilibrium with a Material Exhibiting Anisotropic Shear Strength, J. E. Jennings, RM13:72:269
Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, Fritz Rafeiner, TB:73:Ia-12-1095
Bearing Capacity of Anisotropic Cohesive Soil, Edward H. Davis and John T. Christian, SM5:May 71:753:8146
Behavior of Returned Lunar Soil in Vacuum, W. David Carrier, III, Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156
Behavior of Single Mineral Soils in Triaxial Shear, Robert M. Koerner, SM4:July 70:1373:7432
Chemical Resistant Resurfacing Mortar for Industry, Dallas Grenley and Lou Kuhlmann, CO2:June 74: 133:10603
Collapse of Fargo Grain Elevator, Reymond L. Nordlund and Don U. Deere, SM2:Mar 70:585: 7172
Compaction of Slightly Organic Soils, Arley G. Franklin, Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873
Concrete Beams in Bending, Torsion and Shear, Arthur E. McMullen and Joseph Warwaruk, ST5: May 70:885:7270
Coupling Beams of Reinforced Concrete Shear Walls, Thomas Paulay, ST3:Mar 71:843:7984
Critical Shear Loading of Curved Panels of Corrugated Sheets, George Abdel-Sayed, EM6:Dec 70:895:7725
Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793: 10057
Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631
Densification and Shear of Sand During Vibration, T. Leslie Youd, SM3:May 70:863:7272
Design of Containment Base Mats, Anil K. Kar, SDNPF:Dec 73:323
Design of Reinforced Concrete Spandrel Beams, Thomas T.C. Hsu and Kenneth T. Burton, ST1:Jan 74:209:10277
Drained Strength Characteristics of Sands, Kenneth L. Lee and H. Bolton Seed, SM6:Nov 67:117:5561
Dynamic Shearing Resistance of Dry Ottawa Sand, Kenan Atakol and H. Gordon Larew, SM2:Mar 70: 705:7186

Effective Stress Principle in Saturated Clay, H. E. Evans and Roland W. Lewis, SM2:Mar 70:671:7183

Effect of Particle Characteristics on Soil Strength, Robert M. Koerner, SM4:July 70:1221:7393

Engineering Properties of Some Sea-Floor Deposits, George H. Keller, SM6:Nov 69:1379:6907

Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672

Expansion of Cylindrical Probes in Cohesive Soils, Francois Baguelin, Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129:9377

Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145

Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731

Fly Ash as Structural Fill, Anthony M. DiGioia, Jr. and William L. Nuzzo, PO1:June 72:77:8980

Foundation Failure of the Vankleek Hill Tower Silo, Michael Bozozuk, PES:72:I-885

General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73:365:9604

High Pressure Experiments on Soil and Rock, Donald J. Murphy, Jr., RM13:72:691

Hypothesis for Shear Failure of Brickwork, Bryan Stafford Smith and Clifford Carter, ST4:Apr 71:1055:8029

In-Place Ocean Soil Strength By Accelerometer, Ronald F. Scott, SM1:Jan 70:199:7013

In Situ Strength of Rolled and Hydraulic Fill, Geoffrey E. Blight, SM3:May 70:881:7273

Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675

Kimbley Pit Slope Failure, James V. Hamel, 4PCSM:71:II117

Mechanisms of Shear Resistance of Concrete Beams, R. C. Fenwick and Thomas Paulay, ST10:Oct 68:2325:6167

New Design Procedure for Stability of Soft Clays, Charles C. Ladd and Roger Foott, GT7:July 74:763:10664

Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654

Reinforced Concrete Beam-Column Connection, Eric F.P. Burnett and Rajendra P. Jajoo, ST9:Sept 71:2315:8395

Residual Shear Strength, Peter Smart, TN: SM6:Nov 70:2181:7646

Review of Shearing Strength of Rockfill, Thomas M. Leps, SM4:July 70:1159:7394

Seismic Resistance of Concrete Frames with Grade 60 Reinforcement, Norman W. Hanson, ST6:June 71:1685:8180

Shear Flexibility and Strength of Corrugated Decks, Eric R. Bryan and Wagih M. El-Dakhakhni, ST1:Nov 68:2549:6218

Shearing Strength of Kaolinite, Illite, and Montmorillonite, Roy E. Olson, GT11:Nov 74:1215:10947

Shear Strength and Stability of Man-Made Slopes, Awtar Singh, SM6:Nov 70:1879:7652

Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876

Shear Strength of Homestake Slimes Tailings, James V. Hamel and James W. Gunderson, TN: SM5:May 73:427:9703

Shear Strength of Large Beams, Howard P.J. Taylor, ST11:Nov 72:2473:9329

Shear Strength of Post-Tensioned Daps in Prestressed Concrete Beams, Ali A. Hamoudi and Michael K.S. Phang, ST12:Dec 74:2403:11011

The Shear Strength of Reinforced Concrete Members, James G. MacGregor, Chmn., ST6:June 73:1091:9791

The Shear Strength of Reinforced Concrete Members—Slabs, by the Joint ASCE-ACI Task Committee 426 on Shear and Diagonal Tension of the Committee on Masonry and Reinforced Concrete of the Sturctural Division, Neil M. Hawkins, Chmn., ST8:Aug 74:1543:10733

Shear Strength of Reinforced Concrete Beams, Bengt B. Broms, ST6:June 69:1339:6636

Shear Strength Of Sand At Extremely Low Pressures, V. Miguel Ponce and James M. Bell, SM4:Apr 71:625:8062

Shear Walls, State-of-Art Report 4, Masahide Tomii, TB:73:III-21-203

The Significance of Cap and Base Restraint, James M. Duncan and Peter Dunlop, SM1:Jan 68:271:5768

Skin Friction For Steel Piles in Sand, Harry M. Coyle and Ibrahim H. Sulaiman, SM6:Nov 67:261:5590

Stability Analysis of Embankments, John Lowe, III, SM4:July 67:33:5305

Standard Penetration Tests in Collapsible Soils, Aldo R. Reginatto, 4PCSM:71:II77

Stiffening Effect of Light Cladding, State-of-Art Report 4A, Eric R. Bryan and J. M. Davies, TB:73:II-17-643

Stirrup Effectiveness in RC Beams with Axial Force, Munther J. Haddadin and Alan H. Mattock, ST9:Sept 71:2277:8394

Strength Analysis of Corner Column-Slab Connections, E. Ramzy F. Zaghlool, ST1:Jan 73:53:9471

Strength of a Model of Jointed Rock, Edwin T. Brown and David H. Trollope, SM2:Mar 70:685:7185

Strength of Models of Rock with Intermittent Joints, Edwin T. Brown, SM6:Nov 70:1935:7697

Structure of Deep Sea Clays, Vito A. Nacci and Milton T. Huston, CEO-II:70:599

A Study of a Slide-prone Clay in Panama, Ralph R. W. Beene, 4PCSM:71:II129

Thin Aluminum Shear Webs, Maurice L. Sharp and John W. Clark, ST4:Apr 71:1021:8048

Torsion, Bending and Shear in Prestressed Concrete, Priya R. Mukherjee and Joseph Warwaruk, ST4:Apr 71:1063:8041

Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209

Triaxial and Plane Strain Behavior of Natural Clay, Yoginder P. Vaid and Richard G. Campanella, GT3:Mar 74:207:10421

Undrained Strength Characteristics of Cohesionless Soils, H. Bolton Seed and Kenneth L. Lee, SM6:Nov 67:333:5618

Shear Stress

Bottom Boundary Shear Stresses on a Model Beach, P. G. Teleki and Melvin W. Anderson, 12CEC:71:269

A Case Study of the Bauer Earth Anchor, Marvin D. Oosterbaan and Douglas G. Gifford, PES:72:I-1391

Deep Slabs Subjected to Static and Blast Loading, Gayle E. Albritton, ST11:Nov 69:2449:6919

Deformation of Sand in Shear, Hon-Yim Ko and Ronald F. Scott, SM5:Sept 67:283:5470

Direct Measurement of Shear Stress in a Flume, Sylvester Petryk and Hsieh W. Shen, TN: HY6:June 71:883:8161

Distribution of Tractive Force in Open Channels, Viswanathan C. Kartha and Hans J. Leutheusser, HY7:July 70:1469:7415

Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73:793:9748

Elastic Shear Analysis of General Prismatic Beams, William E. Mason and Leonard R. Herrmann, EM4:Aug 68:965:6082

Experiences with Bed Sills in Stream Stabilization, Robert P. Apmann and Paul H. Blinco, WW3:Aug 69:319:6724

Flexure of Circular Plate by Concentrated Force, T. M. Lee, EM3:June 68:841:6006

Flow Through Annulus with Large Radial Clearance, M. H. Abdul Khader and H. Suresh Rao, HY1:Jan 74:25:10265

Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679

Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72: 447:8836

Impinging Circular Turbulent Jets, Spyridon Beltaos and Nallamuthu Rajaratnam, HY10:Oct 74:1313: 10852

Influence of Grain Size on Littoral Drift, Jose Castanho, 12CEC:71:891

Influence of Suction and Blowing on Entrainment of Sand Particles, Daniel M. Oldenziel and Warner E. Brink, HY7:July 74:935:10672

In-Situ Investigation Using SH-Waves, Marcis Kurzeme, SM2:Feb 71:341:7918

Measurement of Bed Shear Stress Under Waves, H. P. Riedel, J. William Kamphuis and A. Brebner, CE13:72:I-587

Measurement of InSitu Stress in Soils, Peter J. Huck and Madan M. Singh, EFSE:Aug 74:269

Modeling Sedimentation at Inlet and Coastal Region, Pang-Mou Lin, CE13:72:II-883

A Model Study on the Slope Stability Around an Open Pit, Y. S. Kim and R. R. Dimock, Jr., RM13: 72:201

Nonlinear Analysis of Stress and Strain in Soils, James M. Duncan and Chin-Yung Chang, SM5: Sept 70:1629:7513

On the Accuracy of Timoshenko's Beam Theory, G. Richard Cowper, EM6:Dec 68:1447:6285

Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733

Sediment Transport at Low Shields-Parameter Values, Erik Helland-Hansen, Robert T. Milhous and Peter C. Klingeman, TN: HY1:Jan 74:261: 10283

Settlements Near Excavations (In Spanish), Jesus Alberro A., 4PCSM:71:II211

Sewer Line Design Based on Critical Shear Stress, Kuan M. Yao, EE2:Apr 74:507:10480

Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977

The Shear Stress of Sea Breeze on a Swash Zone, Shih-Ang Hsu, 12CEC:71:243

Steady-State Response of Yielding Shear Structure, Wilfred D. Iwan, EM6:Dec 70:1209:7774

Stress Conditions In NGI Simple Shear Test, A. Stanley Lucks, John T. Christian, Gregg E. Brandow and Kaare Hoeg, TN: SM1:Jan 72:155: 8618

Three-Dimensional Turbulent Wall Jets, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY1:Jan 74:69: 10294

Time Dependent Shear Stress Beneath a Shoaling Wave, John S. Fisher, Bruce Johnson and Michael E. McCormick, WAVES:Sept 74:799

Torsion Analysis of Heavy Box Beams in Structures, Frederick A. Smith, Jr., Francis M. Thomas and James O. Smith, ST3:Mar 70:613:7165

Torsion of Multilayered Rectangular Section, John R. Booker and Sritawat Kitipornchai, EM5:Oct 71: 1451:8415

Torsion, Shear, and Bending on Stirruped L-Beams, Umakanta Behera and Phil M Ferguson, ST7:July 70:1271:7419

Turbulent Currents in the Presence of Waves, Helge Lundgren, CE13:72:I-623

Velocity and Shear Stress in Wave Boundary Layers, P. G. Teleki, CE13:72:I-569

Wall Shear Stress Measurements with Hot-Film Sensors, Oner Yucel and Walter H. Graf, HYB:Aug 73:55

Warping Stresses In Slabs On Reissner Foundation, Annapareddy Siva Reddy and Mysore R. Pranesh, TE3:Aug 71:511:8332

Shear Tests

Chemical Resistant Resurfacing Mortar for Industry, Dallas Grenley and Lou Kuhlmann, CO2:June 74: 133:10603

Constitutive Relations for Inelastic Granular Medium, Jay B. Weidler and Paul R. Paslay, EM4: Aug 70:395:7475

Coupling Beams of Reinforced Concrete Shear Walls, Thomas Paulay, ST3:Mar 71:843:7984

Dynamic Moduli and Damping Ratios For Soft Clay, William D. Kovacs, H. Bolton Seed and Clarence K. Chan, SM1:Jan 71:59:7813

Dynamic Shearing Resistance of Dry Ottawa Sand, Kenan Atakol and H. Gordon Larew, SM2:Mar 70: 705:7186

Engineering Properties of a Pennsylvania Shale, Gholamreza Mesri and Rocco Gibala, RM13:72:57

Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145

Failure of Underwater Slope in San Francisco Bay, James M. Duncan and Albert L. Buchignani, SM9: Sept 73:687:10019

In-Situ Measurement Of Soil Creep, R. A. Lohnes, Alvaro Millan and Richard L. Handy, TN: SM1: Jan 72:143:8618

In-situ Shear Test for Rock Fills, Surendra P. Jain and Ramesh C. Gupta, GT9:Sept 74:1031:10823

Mechanisms of Shear Resistance of Concrete Beams, R. C. Fenwick and Thomas Paulay, ST10:Oct 68: 2325:6167

Methods of Performing and Interpreting In Situ Shear Tests, Michael L. Haverland and Edward J. Slebir, RM13:72:107

Sand Liquefaction In Triaxial and Simple Shear Tests, W. D. Liam Finn, Dennison J. Pickering and Peter L. Bransby, SM4:Apr 71:639:8039

Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977

Simulated Seismic Loading of Spandrel Beams, Thomas Paulay, ST9:Sept 71:2407:8365

The Slide at Brilliant Cut, James V. Hamel, RM13: 72:487

Soil Liquefaction by Torsional Simple Shear Device, Isao Ishibashi and Mehmet A. Sherif, GT8:Aug 74: 871:10752

Stress Conditions In NGI Simple Shear Test, A. Stanley Lucks, John T. Christian, Gregg E. Brandow and Kaare Hoeg, TN: SM1:Jan 72:155: 8618

Triaxial and Plane Strain Behavior of Natural Clay, Yoginder P. Vaid and Richard G. Campanella, GT3:Mar 74:207:10421

Shear Waves

Bedrock Motions Computed from Surface Seismograms, Constantine N. Papadakis, Victor L. Streeter and E. Benjamin Wylie, GT10:Oct 74: 1091:10853

Temperature Effect on Shear Wave Velocity in Clays, Donald G. Anderson and Frank E. Richart, Jr., TN: GT12:Dec 74:1316:10981

Sheathing

Guide for the Design of Aluminum Formed-Sheet Building Sheathing, Robert B.B. Moorman, Chmn, ST8:Aug 69:1727:6744

Sheet Flow

Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733

Sheeting

Tie-Backs in Clay to Support Sheeted Excavation, Charles I. Mansur and Mahmood M. Alizadeh, SM2:Mar 70:495:7163

Sheet Piling

Design Construction and Performance of Cellular Cofferdams, Yves Lacroix, Melvin I. Esrig and Ulrich Luscher, LS:70:271

Distribution of Earth Pressure on Sheet-Pile Walls, Dafalla A. Turabi and Arpad Balla, SM6:Nov 68: 1271:6228

Flow Around Inclined Sheet Pile, Annapareddy Siva Reddy, Govinda Chandra Mishra and Kyatsandra Seetharamiah, HY7:July 71:1101:8248

Novel Construction Concept for Raw-Water Intake, Carlton T. Wise and Doyle D. Gillespie, CE:June 71:43

The Performance of a Subway Excavation, T. William Lambe, L. Anthony Wolfskill and Walter E. Jaworski, PES:72:I-1403

Plane Strain Approximations in Finite Element Analyses of Temporary Walls, Yuet Tsui and Gerald W. Clough, GT74:June 74:173

Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077

Sheet Pile Design with Variable Soil Parameters, William D. Kovacs, James H. Martin and Frank A. Gerig, TN: ST2:Feb 74:200:10310

Sloped Sheeting, Harry Schnabel, Jr., CE:Feb 71:48

Soils Engineering For Wells Project, Harris H. Burke, PO2:Mar 71:317:7976

Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239

1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389

Sheets

Buckling of Longitudinally Stiffened Sheets, Niels C. Lind, TN: ST7:July 73:1686:9828

Shellfish

Dredge Spoil Surveillance In Shellfish Areas, George W. Allen and Donald M. Conlon, CEO-II:70:823

Viral Pollution and Depuration of Shellfish, Oscar C. Liu, NSCD:71:397

Shells (Structural Forms)

Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641: 8982

Acoustic Approximations in Fluid-Shell Interactions, Bedros Bedrosian and Frank L. DiMaggio, EM3: June 72:731:8998

Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997

An Analysis of Elliptic-Paraboloid Shell, S. P. Banerjee, ST10:Oct 68:2213:6151

Analysis of Hipped Roof Hyperbolic Paraboloid Structures, William C. Schnobrich, ST7:July 72: 1575:9052

Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473

Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11: Nov 72:2605:9356

Analysis of Three Dimensional Thin-Walled Structures, Bharat L. Mehrotra, Aftab A. Mufti and Richard G. Redwood, ST12:Dec 69:2863:6968

Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5: Oct 72:1115:9247

Automatic Design Of Shell Structures, Peter G. Smith and Edward L. Wilson, EC5:70:289

Automatic Design of Shell Structures, Peter G. Smith and Edward L. Wilson, ST1:Jan 71:191:7825

Bounds on Large Dynamic Deformations of Structures, Tomasz Wierzbicki, EM3:June 70:267: 7344

Buckling and Post-Buckling of Spherical Caps, Nuri Akkas and Nelson R. Bauld, Jr., EM3:June 71:727: 8189

Buckling of Arbitrary Open Cylindrical Shells, Jack W. Vetter and Donald E. Boyd, EM1:Feb 72:177: 8726

Buckling of Axially Loaded Cylindrical Panels, Pan San Hsueh and Alexander Chajes, EM3:June 71: 919:8210

Buckling of Cylindrical Shells by Wind Pressure, Yung-shih Wang and David P. Billington, EM5:Oct 74:1005:10874

Buckling of Reinforced Concrete Shells, P. Harvey Griggs, EM3:June 71:687:8173

Buckling of Shells: An Old Idea with a New Twist, John Roorda, EM3:June 72:531:8951

Buckling of Shells by Finite Element Method, G. Venkateswara Rao, I. S. Raju and S. K. Radhamohan, TN: EM5:Oct 74:1092:10856

Buckling of Simply Supported Folded Plates, Michel L. Mikhail and Sidney A. Guralnick, EM5:Oct 71: 1363:8414

Buckling Stress States of Cylindrical Shells, Ihsan Mungan, ST11:Nov 74:2289:10965

Cable Net: Continuous System Analysis, Hugh Tottenham and Paul G. Williams, EM3:June 70: 277:7347

Computer Analysis of Buckling of Imperfect Shells, Robert E. Ball and Bruce A. Ryan, ST10:Oct 73: 2097:10072

Concentrated Loads Applied to Shallow Shells, Rudolf Elling, EM2:Apr 73:319:9651

Concrete Hulls for Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, ST4:Apr 71:1283:8078

Containment Structure For Trojan Nuclear Plant, Jacob K. Aldersebaes and Karl Wiedner, PO2:Mar 71:351:7957

Continuously Supported Cylindrical-Conical Tanks, Robert S. C. Wang and Phillip L. Gould, ST10:Oct 74:2037:10876

Convergence of Hypar Finite-Difference Solutions, J. G.A. Croll and J. C. Scrivener, ST5:May 69:809: 6540

Cooling Towers Supported on Columns, Salman H. Abu-Sitta, ST12:Dec 70:2575:7753

Cosserat Surface and Sandwich Shell Equilibrium, David J. Malcolm and Peter G. Glockner, EM5: Oct 72:1075:9240

Critical Shear Loading of Curved Panels of Corrugated Sheets, George Abdel-Sayed, EM6:Dec 70:895:7725

Cylindrical Shell Roofs with Draped Prestressing, A. H. Bryant and J. C. Scrivener, ST4:Apr 71:611: 6496

Deformation in Multiple Tier Cylindrical Shells, James H. Williams, Jr., TN: EM10:Oct 73:1114: 10041

Design of FRP Fluid Storage Vessels, Frank J. Heger, ST11:Nov 70:2465:7698

Dynamic Response of Initially-Stressed Membrane Shells, John W. Leonard, EM5:Oct 69:1231:6859

Dynamics of Impulsively Loaded Circular Plates, Robert J. Green, EM2:Apr 71:413:8079

Dynamic Stability of Circular Cylindrical Sandwich Panels, Conor D. Johnson and Nelson R. Bauld, Jr., EM6:Dec 71:1643:8598

Dynamic Wind Stresses in Hyperbolic Cooling Towers, Salman H. Abu-Sitta and Mahmoud G. Hashish, ST9:Sept 73:1823:9989

Earthquake Design of Cooling Towers, Salman H. Abu-Sitta and Alan G. Davenport, ST9:Sept 70: 1889:7524

Edge Effects in Hyperbolic Paraboloid Shells, J. G. A. Croll and J. C. Scrivener, ST3:Mar 69:457:6481

Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72: 47:8717

Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236

Experiments with Elastic Folded Plate Models, Stuart E. Swartz and Vernon H. Rosenbraugh, EM3:June 72:711:8992

External 'Shell' Stops Soil Movement and Saves Tunnel, Joseph P. Nicoletti and James M. Keith, CE:Apr 69:72

Finite Element Analysis Of Hyperbolic Paraboloid Shells, Semih S. Tezcan, Krishna M. Agrawal and George Kostro, EC5:70:675

Finite Element Analysis of Inflatable Shells, Chin-Tsang Li and John W. Leonard, EM3:June 73:495: 9802

Finite-Element Analysis of Nonlinear Structures, Robert H. Mallett and Pedro V. Marcal, ST9:Sept 68:2081:6115
Finite-Element Analysis of Skewed Shallow Shells, David A. Pecknold and William C. Schnobrich, ST4:Apr 69:715:6523
Finite Element Analysis of Thick Shell of Revolution, T. J. Chung and Martin A. Bandy, TN: EM4:Aug 71:1315:8273
Finite-Element Analysis of Thin Shells, Gerald A. Wempner, J. Tinsley Oden and D. A. Kross, EM6: Dec 68:1273:6259
Finite Segment Analysis of Folded Plates, Kam-Shing Lo and Alexander C. Scordelis, ST5:May 69:831: 6544
Forced Motion of Cylindrical Shells, Herbert Reisman and John Medige, EM5:Oct 68:1167:6183
Free Vibration of Hyperbolic Cooling Towers, Mahmoud G. Hashish and Salman H. Abu-Sitta, EM2:Apr 71:253:8037
Free Vibration of Shells of Revolution Using FEM, Subir K. Sen and Phillip L. Gould, EM2:Apr 74: 283:10488
Free Vibrations of Hyperboloidal Shells of Revolution, Robert L. Carter, Arthur R. Robinson and William C. Schnobrich, EM5:Oct 69:1033:6808
Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828
Geometrically Nonlinear Analysis by Stiffness Method, James A. Stricklin, Walter E. Haisler and Walter A. Von Riesemann, ST9:Sept 71:2299:8392
Geometrically Nonlinear Finite-Element Analysis, Carlos A. Brebbia and Jerome J. Connor, EM2:Apr 69:463:6516
High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519
Hyberboloidal Shells on Discrete Supports, Subir K. Sen and Phillip L. Gould, TN: ST3:Mar 73:595: 9629
Hyperbolic Cooling Towers Under Wind Load, Seng-Lip Lee and Phillip L. Gould, ST5:Oct 67:487:5532
Impact Loading Of Submersible Hulls, Frederick John Dzialo, CEO-II:70:487
Impact Resistance of Ferro-Cement, Surendra P. Shah and William H. Key, Jr., ST1:Jan 72:111:8640
Inadequacies of Piston Theory in Fluid-Shell Interactions, Jerome M. Klosner, EM2:Apr 70:143: 7237
Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478
Inelastic Behavior Of R/C Cylindrical Shells, Harry G. Harris and Richard N. White, ST7:July 72:1633: 9074
Inelastic Buckling of Axisymmetric Shells, James C. Hayes and Lawrence H.N. Lee, EM6:Dec 70:1107: 7765
Inelastic Buckling of Shallow Spherical Shells, Lawrence H.N. Lee, Teoman Ariman and Roger E. Hoffman, CEO-II:70:579
Inelastic Buckling of Spherical Shells, Leo J. Galletta and Nicholas F. Morris, EM4:Aug 74:795:10761
Inflatable Shells: Nonsymmetric In-Service Loads, John W. Leonard, EM5:Oct 68:1231:6190
Intersecting Titanium Spheres for Deep Submersibles, George F. Leon, EM3:June 71:981:8219
Invariant Multicouple Theory of Shells, Gerald A. Wempner, EM6:Dec 72:1397:9444
Investigation of Spherical Shell Foundation, A. K. Sharma, TN: SM6:June 73:489:9815
Lagrangian Formulation of Sandwich Shell Theory, Peter G. Glockner and David. J. Malcolm, EM3: June 73:445:9775
Lagrangian Formulation of Statics of Shells, J. P. Shrivastava and Peter G. Glockner, EM5:Oct 70: 547:7584
Linear Theory of Orthotropic Cylindrical Shells, Osman A. Marzouk and George Abdel-Sayed, ST11:Nov 73:2287:10143
Membrane Solutions for Shells with Edge Constraint, Charles R. Steele, EM3:June 74:497:10605
Multibarrier Containment for Nuclear Power Plants, Alexander C. Koehler, Delbert M. Leppke and Roy W. Corcoran, PO2:Oct 69:203:6829
Noncircular Cylinder Vibration by Multilocal Method, Ahmed K. Noor, EM2:Apr 73:389:9677
Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Nonlinear Sandwich Shell and Cosserat Surface Theory, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1183:9244
Nonsymmetric Vibrations of Thin Cylindrical Shells, Chi-Wen Lin, ST10:Oct 70:2175:7632
Nuclear Containment Mat Design Concepts, King-Yuen Chu and Alan A. Broussard, PO1:July 74:85: 10654
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
Optimum Design of Reinforced Concrete Tanks, Robert E. Melchers and George I. N. Rozvany, EM6:Dec 70:1093:7739
Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
Record Concrete Shell Roof Featured in Coliseum, Yue-Chyou Yang, CE:June 72:51
Response of Cooling Tower to Turbulent Wind, Noel J. Gardner, ST10:Oct 69:2057:6812
Response of Hyperbolic Cooling Towers to Turbulent Wind, Mahmoud G. Hashish and Salman H. Abu-Sitta, ST5:May 74:1037:10542
Reticulated Space Structures, James O. Crooker and Kenneth P. Buchert, ST3:Mar 70:687:7180
Shallow Spherical Shells Under Apex Loads, Isadore K. Silverman and John R. Mays, ST1:Jan 74:249: 10262
Shell and Plate Analysis by Finite Elements, Rembert F. Jones, Jr., ST5:May 73:889:9744
Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999: 10096
Shells of Revolution with Concentrated Edge Forces, David G. Elms, EM3:June 69:711:6625
Simplified Theory of Thin Cylendrical Shells, Yung-shih Wang, Peter C.Y. Lee and David P. Billington, EM4:Aug 74:719:10720
Single-Layer Corrugated-Steel-Sheet Hypars, John F. McDermott, ST6:June 68:1279:5977
Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808
Sports Palace for 1968 Olympic Games, D. R. Fernandez, CE:Oct 69:45
Stability Behavior Illustrated by Simple Models, Alexander Chajes, ST6:June 69:1153:6598
Stability of a Submerged Stiffened Cylinder, Paul R. Paslay, EM6:Dec 67:179:5690
Stability of Hyperboloidal Cooling Tower, Henry L. Langhaar, Arthur P. Boresi, Robert E. Miller and Jerry J. Bruegging, EM5:Oct 70:753:7635
State-of-the-Art in Inflatable Shell Research, John W. Leonard, EM1:Feb 74:17:10334
Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
Stress Distribution Around Shell Openings, A. Ziya Aktas, ST11:Nov 70:2337:7693
Stresses in a Pressurized Cylinder With a Hole, August J. Durelli, C. J. Del Rio, Vincent J. Parks and H. Feng, ST5:Oct 67:383:5524
Strongly Curved Finite Element for Shell Analysis, John W. Leonard and Chin-Tsang Li, EM3:June 73:515:9805
Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6: Dec 72:1417:9446
Thermal Loading of Thin-Shell Concrete Cooling Towers, Richard D Larrabee, David P. Billington and John F. Abel, ST12:Dec 74:2367:11002
Thermal Stresses in Multilayer Anisotropic Shells, Tung D. Lin and Donald E. Boyd, EM3:June 71: 829:8206

Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823:9095

Thick-Shell Stress Resultants, Frank G. Bercha and Peter G. Glockner, TN: EM3:June 72:757:8931

Thin Laminates with Homogeneous Elastic Properties, Joel I. Abrams and Ernest R. Scheyhing, EM6:Dec 70:847:7758

Torsional Vibrations of Conical Frustum, Surendra R. Shah, EM5:Oct 71:1521:8452

Transient Elastic Waves in Fluid-Filled Cylinder, Wilton W. King and Daniel Frederick, EM5:Oct 68:1215:6188

Unsymmetrically Loaded Hyperboloids of Revolution, Phillip L. Gould, EM5:Oct 68:1029:6144

Unsymmetrical Yield Point Loads of Spherical Domes, Archibald N. Sherbourne and John Schroeder, EM3:June 68:823:6004

Vibration of Conical Shells Subjected to Torsion, Victor I. Weingarten, EM1:Feb 68:47:5783

Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230

Wind Loads on Kresge Auditorium and Travelers Building, Francis J. Maher, ST1:Jan 69:1:6330

Yield Points For Partially Loaded Spherical Domes, John Schroeder and Prasanta Roy, EM1:Feb 71:63:7888

Shell Structures

Differential Settlement of Hyperbolic Cooling Towers, Phillip L. Gould, ST10:Oct 72:2207:9252

Large Deflection of Shallow Paraboloid Shells, Neng-Ming Wang, Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929

A Tale of Three Tunnels, Thomas R. Kuesel, CE:Dec 74:50

Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70

Shelters

Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68

Shielding

Construction Of Multibarrier Containment Vessels, Delbert M. Leppke, C. Alexander and Robert S. Webb, CO1:Mar 71:53:8002

Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716

Snow Fence Shielding of Precipitation Gages, Paul A. Rechard and Lee W. Larson, HY9:Sept 71:1427:8386

Shields

Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291

Engineering Guidelines for Highway Noise Shield Design, J. Kenneth Manhart, TE4:Nov 74:909:10926

Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125:9697

Shields (Tunneling)

Precast Concrete Tunnel Linings for Toronto Subway, John V. Bartlett, Ted M. Noskiewicz and James A. Ramsay, CO2:Nov 71:241:8498

Pressurized-Slurry Shields Bore Submarine Tunnels, Takuya Ohira and Shunta Shiraishi, CE:May 72:55

Settlement Around Shield Driven Tunnels (In Spanish), Jose Tinajero Saenz and Luis Vieitez Utesa, 4PCSM:71:II225

Soft-Ground Tunneling Technology on the BART Project, Edward W. Peterson and Peter Frobenius, CE:Oct 71:72

Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72:235:9173

The Viennese Subway System, Max Ellinger, TB:73:C-P-269

Shingles

The Measurement of Offshore Shingle Movement, Maurice J. Crickmore, C. B. Waters and W. A. Price, CE13:72:II-1005

Ship Anchors

The Vertical Holding Capacity of Marine Anchors In Sand, Stanley M. Bemben and Edward H. Kalajian, CEO-II:70:117

Shipbuilding

Graving Dock for 300,000-ton Ships, Charles F. Millard and Jay J. Hassani, CE:June 71:71

Lift Dock Combines Drydock and Transfer Platform, Amirikian Arsham, CE:July 71:37

New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712

1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389

Ship Hulls

Concrete Hulls For Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, CEO-II:70:999

Impact Loading Of Submersible Hulls, Frederick John Dzialo, CEO-II:70:487

Impact Resistance of Ferro-Cement, Surendra P. Shah and William H. Key, Jr., ST1:Jan 72:111:8640

Waves Generated By Model Ship Hull, Robert M. Sorensen, WW4:Nov 69:513:6910

Ship Maneuvering

Dynamics of Ship Anchor-Lines in Waves and Currents, Basil W. Wilson and Donald H. Garbaccio, WW4:Nov 64:449:6888

Economic Channels and Maneuvering Areas for Ships, Clarence F. Wicker, WW3:Aug 71:443:8308

Economics of Channels and Maneuvering Areas for Ships, Richard G. Waugh, Jr., WW4:Nov 71:671:8537

Speed of Ships in Restricted Navigation Channels, R. Bryan Schofield, WW2:May 74:133:10539

Vessel Controllability in Restricted Waters, Edwin W. Eden, Jr., WW3:Aug 71:475:8310

Shipping Containers

Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317

Containerport Engineering for the Port of Oakland, E. F. Nielsen, CE:Jan 69:40

Containership Finger Pier has Unique Fender System, Warren M. Buser, CE:Apr 71:58

Ships

Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098

Avalon Transportation Wharf, James W. Dunham, WW2:May 71:371:8104

Case History of Los Angeles-Long Beach Harbors, Robert W. Whalin, Claude E. Chatham, Donald L. Durham and Ellis B. Pickett, WAVES:Sept 74:466

Charting New Transportation Environment, John A. Osborn, SU2:Sept 70:265:7565

Economic Channels and Maneuvering Areas for Ships, Clarence F. Wicker, WW3:Aug 71:443:8308

Economics of Channels and Maneuvering Areas for Ships, Richard G. Waugh, Jr., WW4:Nov 71:671:8537

Effect on Waterway Depth and Alignments, Casimir J. Kray, WW2:May 70:497:7305

Full Scale Observation of Berthing Impacts: Their Interpretation, John T. O'Brien, BMS:71:203

Full Scale Observation of the Behavior of Moored Ships, Basil W. Wilson, BMS:71:117

Full Scale Observation of the Behavior of Moored Ships, John T. O'Brien, BMS:71:130

Full Scale Observation of the Behavior of Moored Ships, Robert C. H. Russell, BMS:71:133

Full Scale Observations on Berthing Impacts: Their Interpretation, Brendan F. Saurin, BMS:71:198

Harbor Study for San Nicholas Bay, Peru, James M. Murphy and Emmett J. Murphy, WW2:May 70:251:7271

The Mechanics of Impact and Evaluation of the Hydrodynamic Mass Analytic Study of the Problem of Berthing, Fernando Vasco Costa, BMS:71:157
The Moored Ship as an Oscillating System, Robert C.H. Russell, BMS:71:48
The Moored Ship as an Oscillating System - The Non-linear Problem, Antonio G. Portela, BMS:71:67
Offshore Mooring Systems, Robert C. H. Russell, BMS:71:254
Off-shore Mooring Systems at Exposed Locations, Albert Steenmeyer, BMS:71:241
Off-shore Mooring Systems at Protected or Semi-protected Locations, Albert Steenmeyer, BMS:71:224
Physical Model of the Moored Ship as an Oscillating System, Fernando Vasco Costa, BMS:71:53
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48
Queueing at Single-Berth Shipping Terminal, Alan J. Miller, WW1:Feb 71:43:7895
References to Literature on Mooring and Berthing of Ships Mainly Published between 1965 and 1970, Basil W. Wilson, BMS:71:288
Regional Approach to Port Development Planning, Howard J. Marsden, WW1:Feb 71:33:7896
Seiches and Other Causes of the Motion of Ships Already Moored, Basil W. Wilson, BMS:71:1
Seiches and Other Causes of the Motion of Ships Already Moored, John T. O'Brien, BMS:71:20
Selection of Fenders, Fernando Vasco Costa, BMS:71:260
Speed of Ships in Restricted Navigation Channels, R. Bryan Schofield, WW2:May 74:133:10539
Use of Models for the Study of the Behavior of Moored Ships, Francis Biesel, BMS:71:136
Vessel Controllability in Restricted Waters, Edwin W. Eden, Jr., WW3:Aug 71:475:8310
Views of Port Industry, Roger H. Gilman, WW1:Feb 71:3:7919
Water Depths Required for Ship Navigation, Richard G. Waugh, Jr., WW3:Aug 71:455:8309
Water Waves Produced by Ships, Robert M. Sorensen, WW2:May 73:245:9754
Waves Generated by Large Ships and Small Boats, Madan M. Das and Joe W. Johnson, 12CEC:71:2281
Ways to Improve Berthing Operations, Basil W. Wilson, BMS:71:268
Ways to Improve Berthing Operations, Fernando Vasco Costa, BMS:71:273

Shipyards
Floating Dry Docks for Ship Launching, Kenneth R. Broome and William S. Gaither, WW1:Feb 70:121:7110

Shoaling
Case History of Mission Bay Inlet, San Diego, California, William J. Herron, Jr., CE13:72:II-801
Equilibrium Range Spectra in Shoaling Water, Takeshi Ijima, Takahiko Matsuo and Kazutami Koga, 12CEC:71:137
Estuary Inlet Channel Stabilization Study Using A Hydraulic Model, Theodore T. Lee, 12CEC:71:1117
Natural Flushing Ability in Tidal Inlets, I. B. Mota Oliveira, 12CEC:71:1827
Periodic Waves Shoaling in Waters over Steeply Sloping Bottoms, Harihara Rama, 12CEC:71:363
Probabilities of Breaking Wave Characteristics, J. Ian Collins, 12CEC:71:399
Shoaling of Cnoidal Waves, I. A. Svendsen and O. Brink-Kjaer, CE13:72:I-365
Shoaling of Finite Amplitude Long Waves on a Beach of Constant Slope, Yuichi Iwagaki and Tetsuo Sakai, CE13:72:I-347
Shoaling of Finite-Amplitude Waves on Plane Beaches, Robert K. C. Chan and Robert L. Street, 12CEC:71:345
Shoaling of Finite-Amplitude Waves on Plane Beaches, Robert K. C. Chan and Robert L. Street, 12CEC:71:345
Time Dependent Shear Stress Beneath a Shoaling Wave, John S. Fisher, Bruce Johnson and Michael E. McCormick, WAVES:Sept 74:799

Shoals
Equilibrium Range Spectra in Shoaling Water, Takeshi Ijima, Takahiko Matsuo and Kazutami Koga, 12CEC:71:137
Natural Flushing Ability in Tidal Inlets, I. B. Mota Oliveira, 12CEC:71:1827
Periodic Waves Shoaling in Waters over Steeply Sloping Bottoms, Harihara Rama, 12CEC:71:363
Shoaling of Solitary Waves on Small Slopes, Frederick E. Camfield and Robert L. Street, WW1:Feb 69:1:6380

Shock
An Approach to Time-Varying Spectral Analysis, Shih-Chi Liu, EM1:Feb 72:243:8733
Elastic Free-Field Motion Due to Nuclear Blast, Leif E. Fugelso, Robert K. Waddick and Glen L. Heidhardt, EM6:Dec 68:1337:6266

Shock (Mechanics)
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603
Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166

Shock Mechanics
Response of Buried Cylinders Encased in Foam, Carl J. Costantino and Eben Vey, SM5:Sept 69:1159:6769

Shock Tests
Response of Completely Mixed Systems to Hydraulic Shock Loads, Thazhethil K. George and Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103

Shock Waves
Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115
Impact Loading Of Submersible Hulls, Frederick John Dzialo, CEO-II:70:487
Response of Completely Mixed Systems to Hydraulic Shock Loads, Thazhethil K. George and Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103

Shopping Centers
Fulton Arcade (A Pedestrian/Transitway in Downtown Brooklyn), Richard M. Rosan, BP73:Dec 73:80
Pedestrian Mall: Purpose, Form, Design, Success, Crawford C. Westbrook, BP73:Dec 73:74
Planning the Pedestrian Environment, Herbert S. Levinson, BP73:Dec 73:37
Shopping Centers Development Team, J. Ross McKeever, CE:Sept 69:89

Shore Protection
Artificial Beach Nourishment on the German North Sea Coast, Johann Kramer, CE13:72:II-1465
Artificial Nourishment of Copacabana Beach, Daniel Vera-Cruz, CE13:72:II-1451
Beach Behavior, North Shore, Long Island Sound, Robert A. McCabe, WW4:Nov 70:781:7679
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Breaker Travel and Choice of Design Wave Height, Cyril J. Galvin, Jr., WW2:May 69:175:6569
Calculated Sand Fills and Groin Systems, John Simpson Hale, CE13:72:II-1385
Characteristics of Shingle Beaches: The Solution to Some Practical Problems, A. M. Muir Wood, 12CEC:71:1059
Coastal Sand Management System, Birchard M. Brush, CE13:72:II-1503
Design of Filter System for Rubble-Mound Structures, Theodore T. Lee, CE13:72:III-1917

The Dynamics of a Coast with a Groyne System, W. T. Bakker, E. H.J. Klein Breteler and A. Roos, 12CEC:71:1001
Establishment of a Coastal Setback Line in Florida, James A. Purpura, CE13:72:II-1599
Field Tests on Two Permeable Groynes, W. A. Price, K. W. Tomlinson and D. H. Willis, CE13:72:II-1401
Gabions Guard River Banks Against 50,000 cfs Flows, Serge Lavagnino, CE:May 74:88
Hawaiian Beaches, Franciscus Gerritsen, CE13:72:II-1257
The History and Philosophy of Coastal Protection, Per Moller Bruun, CE13:72:I-33
Honolulu Reef Runway Dike, Robert Q. Palmer and James R. Walker, 12CEC:71:1629
Hurricane Surge Computations by Computer, Alan N. Sirkin, WW2:May 70:467:7299
Ice Effects on Coastal Structures, H. R. Kivisild and G. D. Ransford, CE13:72:III-1801
Laboratory Study for Design of Tsunami Barrier, Adel M. Kamel, WW4:Nov 70:767:7669
Land Reclamation and Groin-building in the Tidal Flats, Heie Focken Erchinger, 12CEC:71:1041
La Protection des Plages du Littoral du Lac Saint-Jean, Richard Bolvin and Yvon Cousineau, CE13:72:II-1485
Maximum Breaker Height for Design, J. Richard Weggel, CE13:72:I-419
Modular Systems Make Shore Protection Economical, Carl R. Wilder and Earl R. Koller, CE:Oct 71:60
Movable-Bed Model Studies of Perched Beach Concept, C. E. Chatham, Jr., CE13:72:II-1197
A New Approach to Coastal Defense, Richard Silvester and Siew-Koon Ho, CE:Sept 74:66
New Designs for Beach Protection Structures, G. D. Khaskhachikh, G. A. Tsaturiyan and Ya. S. Shulgin, CE13:72:III-1675
New Shape in Shore Protection, Greer E. Coursey, CE:Dec 73:68
The Nile Delta Coastal Protection Project, Ismail E. Mobarek, CE13:72:II-1409
An Offshore Beach Nourishment Scheme, Robert A. Dalrymple, 12CEC:71:955
Piling-Up Behind Low and Submerged Permeable Breakwaters, Mordechai H. Diskin, Michael L. Vajda and Illan Amir, WW2:May 70:359:7283
Plunging Wave Pressures on a Semi-cylindrical Tube, Yuan Jen and Pang-Mou Lin, 12CEC:71:1469
Predicting Changes in the Plan Shape of Beaches, W. A. Price, K. W. Tomlinson and D. H. Willis, CE13:72:II-1321
A Radiological Approach to Littoral Drift Problems, Joseph H. Bittner, CEO-II:70:725
Rate of Sediment Motion Using Fluorescent Tracer, Abdel-Latif A. Kadib, CE13:72:II-985
Relative Validities of Water Wave Theories, Robert G. Dean, WW1:Feb 70:105:7092
River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1:Jan 74:1:10281
Sea Observation in Coastal Areas: The Spanish Offshore Network, P. S. Bores, WAVES:Sept 74:13
Shock Pressure on Coastal Structures, Adel M. Kamel, WW3:Aug 70:689:7487
Some Experiments with Sand-filled Flexible Tubes, Per Roed Jakobsen and Arne Hasle Nielsen, 12CEC:71:1513
State of Groin Design and Effectiveness, J. H. Balsillie and Dennis W. Berg, CE13:72:II-1367
Studies on the Shore Process and Wave Features of the Western Coast of Taiwan, Kenneth S. T. Chang and Frederick L. W. Tang, 12CEC:71:729
Study of Mudbanks along the Southwest Coast of India, N. S. Moni, 12CEC:71:739
Systematic Study of Coastal Erosion and Defence Works in the Southwest Coast of India, N. S. Moni, CE13:72:II-1427
Tidal Inlet Problems Along the New England Coast, Oscar E. Arpin, 12CEC:71:1171
Typhoon Waves at the High Island Dam, Hong Kong, Peter Ackers, J. A.T. Aspden and J. L. Boyd, WAVES:Sept 74:523
Underwater Mound for the Protection of Durban's Beaches, Johan A. Zwamborn, G. A. W. Fromme and J. B. FitzPatrick, 12CEC:71:975
Use of Crenulate Shaped Bays to Stabilize Coasts, Richard Silvester and Siew-Koon Ho, CE13:72:II-1347
Wave Climate in the Eastern Caribbean, Compton Deane, WAVES:Sept 74:214
Wave Conditions and Coastal Structures, W. P.A. Broeders and G. van Loenen, WAVES:Sept 74:543
Wave Gages in Coastal Areas, J. J. Pilon, WAVES:Sept 74:585
Wave Statistics for Surfzone Structures, John Simpson Hale, WAVES:Sept 74:453

Shores

Dispersion Prediction from Current Meters, Mervin D. Palmer and J. Bryan Izatt, HY8:Aug 70:1667:7464
Establishment of a Coastal Setback Line in Florida, James A. Purpura, CE13:72:II-1599
San Francisco Bay Balancing of Development and Conservation Proposed, E. Jack Schoop, CE:May 69:54

Shoring

Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
Performance of Tied-Back Walls in Clay, Gerald W. Clough and Yuet Tsui, GT12:Dec 74:1259:11028
Tension Piles and Diagonal Tie-Backs, Norman L. Liver, CO1:July 69:107:6692
Tied-Back Deep Excavations in Los Angeles Area, Perry A. Maljian and James L. Van Beveren, CO3:Sept 74:337:10791
What's New in Sewer and Water Pipe, Kneeland A. Godfrey, Jr., CE:May 74:72

Shortages

Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, WW1:Feb 74:13:10325

Short Takeoff Aircraft

Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
STOL Passenger Demand in Underdeveloped Areas, Jason C. Yu, TE3:Aug 71:475:8298

Shotcrete

Bureau of Reclamation Shotcrete Design Practices, John W. Morris, SUSS:July 73:153
Constructing Washington D.C.'s Metro, Ellis E. Wilhoyt, Jr., CE:Nov 74:74
Corps of Engineers Studies of Shotcrete, Thomas J. Reading, SUSS:July 73:263
Current Field Research Program on Shotcrete, Harvey W. Parker, SUSS:July 73:330
Development of Shotcrete for Metro Construction in Washington, Kanwal S. Bawa, SUSS:July 73:33
Early Age Strength Properties of Shotcrete, Grant L. Anderson and Melvin E. Poad, SUSS:July 73:277
Geologic Considerations in Shotcrete Design, Edward J. Cording, SUSS:July 73:175
Instrumentation to Monitor Behavior of Shotcrete Support Systems, Ronald A. Jones and J. W. Mahar, SUSS:July 73:297
Keynote Address, Albert A. Mathews, SUSS:July 73:3
Large Aggregate Shotcrete Challenges Steel Ribs as a Tunnel Support, Harry Sutcliffe and Cole R. McClure, CE:Nov 69:51
Large Aggregate Shotcrete Challenges Steel Ribs as a Tunnel Support, Harry Sutcliffe and Cole R. McClure, CE:Nov 69:51

New Developments in In-Place Testing of Shotcrete, Todd E. Rutenbeck, SUSS:July 73:246
Opening Remarks, James R. Graham, SUSS:July 73:1
Polymer Shotcrete, James R. Graham, SUSS:July 73:418
Practical Aspects of Shotcrete Application, Fernando E. Valencia, SUSS:July 73:114
Quality Control and Application - New Melones Project, Leland A. Case, SUSS:July 73:235
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836
Remote Nozzle Permits High Production and Safety, James S. Goff, SUSS:July 73:405
Selection/Design of Shotcrete for Temporary Support, Ronald E. Heuer, SUSS:July 73:160
Shotcrete Durability and Strength - A Practical Viewpoint, Jan A. Blanck, SUSS:July 73:320
Shotcrete for Structural Rehabilitation, James P. Crawford, SUSS:July 73:367
Shotcrete Practices at the Henderson Mine, Robert C. Jones, SUSS:July 73:50
Shotcrete Safety and Environmental Control, Robert C. Bates, SUSS:July 73:130
Shotcrete Support in Rock Tunnels in Scandinavia, Owen S. Cecil, CE:Jan 70:72
Summary of Session III - European Shotcreting Practices, Tor L. Brekke, SUSS:July 73:96
Summary of Session II - Shotcrete Applications in the Americas, William A. Maples, SUSS:July 73:58
Summary of Session I - Opening, Charles F. Corns, SUSS:July 73:29
Summary of Session X - Shotcrete Case Histories and Specialties, Kenneth D. Hansen, SUSS:July 73:436
Summary of the Conference, Pierrepont E. Sperry, Jr., SUSS:July 73:441
Summary of Workshop A - Shotcrete Construction and Equipment, Harold E. Tibbs, SUSS:July 73:143
Summary of Workshop B - Shotcrete Design, P. L. Boileau, SUSS:July 73:232
Summary of Workshop C - Shotcrete Quality Control and Instrumentation, Paul J. Tilp, SUSS:July 73:351
Use of Remote Controlled Spraying Nozzle, Claes Alberts, SUSS:July 73:65
Use of Shotcrete for Tunnelling in Difficult Grounds, Pericle Quadrio Curzio, Glauco Barazzoni, Fiorenzo Nobili and Alessio Anselmi, SUSS:July 73:79
Use of Shotcrete from the Standpoint of the Owner, Gordon M. Miner, SUSS:July 73:13
Use of Shotcrete from the Standpoint of the Designer, Cole R. McClure, SUSS:July 73:18
Use of Shotcrete from the Standpoint of the Contractor, Kirk H. Fox, SUSS:July 73:22
Use of Special Cements in Shotcrete, Madan M. Singh and Seymour A. Bortz, SUSS:July 73:200
Using Accelerator - Wet Process, H. N. Steenson, SUSS:July 73:104
Volumetric Proportioning, Blending, and Mixing, Ralph W. Coho, Jr., SUSS:July 73:101

Shredders
Mini Automobile-shredding Plant for Western Michigan, Charles E. Haltenhoff, CE:Apr 71:55

Shrinkage
Analysis of Longitudinal Behavior of Buried Pipes, Harry G. Poulos, GT74:June 74:199
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1:Feb 72:17:8695
Creep and Shrinkage Law for Concrete at Variable Humidity, Zdenek P. Bazant and Spencer T. Wu, EM6:Dec 74:1183:10995
Creep, Cracking, and Shrinkage in Concrete Frame Structures, Lawrence G. Selna, ST12:Dec 69:2743:6949
Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741
Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831
Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765
Lamellar Tearing of Welded Steel, CE:Dec 73:34
Seepage Through Soil-Cement Facings, Glenn DeGroot, PES:72:I-751
Shrinkage and Shrinkage Restraints in Concrete Pavements, Shigeyoshi Nagataki, ST7:July 70:1333:7402
Shrinkage Effect of Structural Concrete Walls in Multi-Story Buildings, Iosif Gruner, Grigore Rotaru and Radu Frunza, TB:73:III-25-827
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12:Dec 72:1375:9454

Shrinkproofing
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1:Feb 72:17:8695

Shrubs
Stress Analysis of Hollow Cylindrical Inclusions, Sidiq M. Dar and Robert C. Bates, GT2:Feb 74:123:10364

Shutdowns
Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73:281:10164

Side Looking Radar
Applications of Airborne Remote Sensing Technology, Ralph W. Kiefer and James P. Scherz, SU1:Apr 70:57:7225
Remote Sensing in the Study of Coastal Processes, Orville T. Magoon and Douglas M. Pirie, CE13:72:III-2027

Sidesway
Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771
Buckling of Trapezoidal Frames Permitted to Sway, Adel Helmy Salem, ST12:Dec 69:2621:6940
Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72:1255:8937
Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, M. R. Horne, TB:73:II-15-311
Sidesway Instability of Unbraced Tube Buildings, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-598
Stability of Unbraced Single-Bay Multistory Frames, Adel Helmy Salem, ST2:Feb 73:223:9552

Sidewalks
Behavioral Evaluation of Pedestrian Countermeasures, Wallace G. Berger, BP73:Dec 73:112
Bikeway Planning/Construction - A PR Tool, John F. Graham, BP73:Dec 73:200
Chicago Bikeway Progress Report, John N. LaPlante, BP73:Dec 73:307
Chicago Experience, Joseph P. McDermott, BP73:Dec 73:172
Fulton Arcade (A Pedestrian/Transitway in Downtown Brooklyn), Richard M. Rosan, BP73:Dec 73:80
Human/Machine Interface in Moving Walk Design, Rick Kuner, MTI:May 72:139
Human Responses to Stairways, Walkways and Ramps: Some Recent Findings, John A. Templer, BP73:Dec 73:137
Maintenance of Bicycle Facilities - An Overview, Thomas A. Gawley and Walter H. Kraft, BP73:Dec 73:143
Mall Planning Strategy, Don C. Miles, BP73:Dec 73:675
Mobility as It Relates to the Handicapped and the Elderly's - An Overview, Steven C. Provost, BP73:Dec 73:411
Moving Walks, Ralph W. Blevins, BP73:Dec 73:463

Now That You Have One, What Have You Done For Your Bikeway Lately?, John M. Freiermuth, BP73:Dec 73:151

Operation and Maintenance of Campus Bicycle Facilities, John E. Baerwald, BP73:Dec 73:167

Pedestrian Mall: Purpose, Form, Design, Success, Crawford C. Westbrook, BP73:Dec 73:74

Planning and Designing for the Pedestrian Environment, Anthony R. Ameruso, BP73:Dec 73:204

Planning the Pedestrian Environment, Herbert S. Levinson, BP73:Dec 73:37

Research on Safety and Locational Criteria for Bicycle Facilities, Daniel T. Smith, Jr., BP73:Dec 73:134

Variable Speed Walkways, Ralph W. Blevins, Victor J. Dietz and Richard D. Burson, MTI:May 72:347

Signal Lights

Behavioral Evaluation of Pedestrian Countermeasures, Wallace G. Berger, BP73:Dec 73:112

Signals

Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77

Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097

Modern Applications of Traffic Control Devices, John A. Bruce, TE1:Feb 71:153:7906

Now That You Have One, What Have You Done For Your Bikeway Lately?, John M. Freiermuth, BP73:Dec 73:151

Proximal Decisions in Traffic Intersections, Lloyd Sako and Samuel Zundelevich, TE3:Aug 73:597:9915

Railroad Track Relocation Saves Time, Money, John G. Fry, CE:May 74:86

Signs

Getting the Job Done, Carl Berkowitz and Richard Cohen, BP73:Dec 73:282

Information System in Transportation Facilities, Paul Arthur, MTI:May 72:99

Modern Applications of Traffic Control Devices, John A. Bruce, TE1:Feb 71:153:7906

Now That You Have One, What Have You Done For Your Bikeway Lately?, John M. Freiermuth, BP73:Dec 73:151

Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928

Silica

Alkali-Silica Reaction: A Major Cause of Concrete Deterioration, Joseph D. Walters, IMROD:Sept 73:464

Silos

Bin Loads, Andrew W. Jenike and Jerry R. Johanson, ST4:Mar 68:1011:5916

Grain Storage Structures for Food Deficient Areas, Alexander M. Turitzin, ST10:Oct 69:2161:6835

Settlement Histories of Two Pile Supported Grain Silos, Melvin T. Davisson, PES:72:I-1155

Silting

Dams and Ecology: Can They be Made Compatible?, Darrell J. Turner, CE:Sept 71:76

Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538

Experiences with Tidal Salinity Model Europoort, A. J. van Rees, P. van der Kuur and H. J. Stroband, CE13:72:III-2345

Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, Nikolai P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259

Silts

Acoustic Emissions In Medium Plasticity Clayey Silt, Robert M. Koerner and A. E. Lord, TN: SM1:Jan 72:161:8618

Case History -- Embankment Failure on Soft Varved Silt, Richard S. Haupt and James P. Olson, PES:72:I-1

Compared Experiences with the S.P.T. (In Spanish), C. M. Arce, F. L. Torres and H. J. Vercelli, 4PCSM:71:II95

Earth Responses in Soft Ground Tunnelling, Peter M. Rebull, PES:72:I-1517

Geotechnical Properties of Hudson River Silts, Surendra K. Saxena and Timothy P. Smirnoff, TN: SM10:Oct 73:912:10042

Rationalization of Lacey's Regime Flow Equations, Mohammad Akram Gill, HY4:July 68:983:6039

Sedimentation of Reservoirs, I. C. dos M. Pais-Cuddou and Shri N. C. Rawel, IR3:Sept 69:415:6789

Silver Iodide

Ecological Consequences of Winter Cloud Seeding, Theodore W. Weaver and Arlin B. Super, IR3:Sept 73:387:9988

Modification of Convective Clouds in Northern Plains, Martin R. Schock and Arnett S. Dennis, OIDS:72:373

Silver Iodide Generators and Public Health, William J. Douglas, IR3:Sept 70:273:7535

Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9:Sept 72:1515:9187

Similitude

Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73:1401:10018

Drainage of Soil Profiles, Royal H. Brooks, Corey Benedict, Gilbert L. Corey and Arthur T. Cores, IR3:Sept 71:455:8389

Modeling Gas Mixing within Steel Chimney Liners, James J. Markowsky, EPCE:Aug 74:137

Similitude in Free-Surface Vortex Formations, Larry L. Daggett and Garbis H. Keulegan, HY11:Nov 74:1565:10941

Simulation of Piers in Hydraulic Models, David J. Ball, WW1:Feb 74:23:10313

Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Simulation

Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387:9128

Air Traffic Simulation, One and Two-Runway Airports, Stephen Hall, TE1:Feb 74:221:10342

Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544

Center Pivot Design Capacities in Eastern Colorado, Dale F. Heermann, Hollis H. Shull and Rome H. Mickelson, IR2:June 74:127:10588

Delaware River Basin Modeling, Lewis G. Hulman and David K. Ericson, HY1:Jan 72:105:8668

Distribution Of Response To Simulated Earthquakes, Paul H. Wirsching and James T.P. Yao, TN: EM4:Aug 70:515:7444

Evaluation of Airfield Performance by Simulation, Austin E. Brant, Jr. and Patrick J. McAward, Jr., TE2:May 74:505:10552

Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613

Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661

Flow Resistance from Cylindrical Roughness, Soronadi Nnaji and I-pai Wu, IR1:Mar 73:15:9612

Flow Simulation System, Richard F. Lanyon and James Jackson, HY8:Aug 74:1089:10743

GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shemsul A. Akhand, TE3:Aug 74:593:10717

Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
High-Speed Train Simulation Using Hydrodynamics, Robert A. Helfinstine and Charles Dalton, EM2:Apr 72:357:8804
Hydrologic Simulation Procedures As Applied To Vegetation Management, George Fleming, SEA:70:269
Monte Carlo Simulation of Industrial Waste Discharges, Paul M. Berthouex and Linfield C. Brown, SA5:Oct 69:887:6836
Ocean Wave Simulation for Engineering Design, Leon Emry Borgman, WW4:Nov 69:557:6925
Parametric Study of Wind Loading on Structures, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571:9960
River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201
Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, ST3:Mar 74:687:10435
Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020
Simulation Model for the Appraisal of Irrigation Projects, Paul Egli, OIDS:72:35
Simulation Model of Urban Refuse Collection, Marcus M. Truitt, Jon C. Liebman and Cornelius W. Kruse, SA2:Apr 69:289:6508
Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056
Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4:Aug 73:479:9943
Simulation of Excavation Using Finite Elements, Vallampadugai S. Chandrasekaran and George J.W. King, TN: GT9:Sept 74:1086:10774
Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
Simulation of Water Quality in Tarawera River, J. Christopher Rutherford and Michael J. O'Sullivan, EE2:Apr 74:369:10461
Simulation of Waterway Transport Systems, Joseph L. Carroll and Michael S. Bronzini, TE3:Aug 71:527:8311
Simulation of Wind Effects on Sprinkler Performance, Stephen V. Allison and Victor L. Hesse, IR4:Dec 69:537:6978
Sizing Pedestrian Queueing Areas, Peter A. Fausch, MTI:May 72:113
Staging of Improvements to Air Transport Terminals, Angus J. McKenzie, Jack W.E. Huggett and Kenneth W. Ogden, TE4:Nov 74:855:10920
Stochastic Models and Live Load Surveys, State-of-Art Report 2B, William E. Greene, Jr., TB:73:Ib-5-35
Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969
Systems Analysis and Solid Waste Planning, Robert M. Clark and James I. Gillean, EE1:Feb 74:7:10316
Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466
Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941
Unsteady Flow Simulation in Rivers and Reservoirs, Jack M. Garrison, Jean-Pierre P. Granju and James T. Price, HY5:Sept 69:1559:6771
Use of Simulation in Airport Planning and Design, Dana E. Low, TE4:Nov 74:985:10954
Using Experimental Models to Guide Data Gathering, Charles F. Meyer, HY10:Oct 71:1681:8449
Waves Induced by Non-Permanent Paddle Movements, Carlos de Campos Moraes, Fernando Silveira Ramos and Manuel Mendes de Carvalho, CE13:72:I-707

Sinkholes
Performance Record of Walter F. George Lock and Dam, Robert L. Crisp, Jr., PES:72:I-691

Sinks
Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581
Unsteady Seepage Toward Sink Beneath Free Surface, Bruce W. Hunt, HY4:Apr 70:859:7202

Siphons
Performance Characteristics of Siphon Outlets, Alan F. Babb and William K. Johnson, HY6:Nov 68:1421:6237
Siphons: Some Scale-Effects in Models, Richard B. Whittington and Kamil H.M. Ali, HY1:Jan 72:45:8629
Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093

Site Investigation
Foundation Study for Materials Test Structure, Melvin C. Hironaka and Raymond J. Smith, SM6:Nov 69:1431:6921
Identification of R&D Needs for Subsurface Site Investigations, George Brown Wallace, EFSE:Aug 74:372
Mobile-Home Parks, David A. Alley, Ivan Orton and John L. Young, CE:Sept 71:88
Nuclear Power Plant Siting on Deep Alluvium, Ronald F. Scott and Jack J. Schoustra, GT4:Apr 74:449:10497
Opportunity for Civil Engineers, CE:Apr 71:92

Sites
Economic Location of Locks, Eric E. Bottoms, TE1:Feb 69:77:6397
Mobile-Home Parks, David A. Alley, Ivan Orton and John L. Young, CE:Sept 71:88
New Approach to Site Selection Studies, W. Ray Seiple, PO1:July 74:63:10643
New Concepts in Suburban Drainage in Florida, Kenneth A. Bryant, Jr. and James N. Krider, IR73:Aug 73:471
Opportunity for Civil Engineers, CE:Apr 71:92
A Parallel Processing Approach To Bridge Planning, Andrew K.C. Wong and Tung Au, EC5:70:155
Preservation and Restoration of the Landscape, Herbert S. Conover, ECCD:72:365
Stochastic Scheduling of Linear Construction Sites, Joachim Dressler, CO4:Dec 74:571:11024
Walt Disney World -- A Philosophy of Planning, William E. Potter, PWS:Nov 72:71

Site Selection
Electric Utility Problems in Meeting Urban Planning Requirements, Alfred R. Golze, UP2:Sept 73:193:10016
Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
Inclusion of Social Values in Facility Location Planning, David Morris, UP1:July 72:17:9023
Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
Logical Approaches to Power Supply and Environment, Riley D. Woodson, PO2:Oct 72:181:9257
New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93:8981
New Approach to Site Selection Studies, W. Ray Seiple, PO1:July 74:63:10643

Nuclear Power Plant Siting on Deep Alluvium, Ronald F. Scott and Jack J. Schoustra, GT4:Apr 74:449:10497

Preliminary Design and Construction Concepts for Crystal Dam, James Legas, ECCD:72:191

Sanitary Landfills: The Latest Thinking, CE:Mar 73: 69

Site Related Design Considerations for Standardized Nuclear Power Plant Design, Edward A. Sweeney, SDNPF:Dec 73:415

Statistical Safety Factor Concept for Determining the Probable Maximum Flood, Boris S. Browzin, SDNPF:Dec 73:557

Walt Disney World -- A Philosophy of Planning, William E. Potter, PWS:Nov 72:71

Site Surveys

Environmental Aspects of Site Selection, Eugene F. Dudley, PO1:June 72:21:8971

Public Health Factors in Reactor Site Selection, J. G. Terrill, C. L. Weaver, E. D. Harward and J. M. Smith, SA3:June 69:545:6620

Surveying Responsibility of the Engineer-Manager, Daniel J. Watkins, SU1:May 71:1:8101

Size Determination

Economic Pipe Sizing in Pumped Irrigation Systems, Roland P. Perold, IR4:Dec 74:425:10988

Skew Bridges

Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7: July 72:1377:9013

Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1: Feb 73:201:9576

Skew and Elevated Support Effects on Curved Bridges, Donald W. Funkhouser and Conrad P. Heins, Jr., ST7:July 74:1379:10670

Skewed Structures

Analysis of Skew Plates with Shear Deformation Using Natural Coordinates, Yair Tene and Izhak Sheinman, EM2:Apr 74:235:10487

Some Orthotropic Skew Plate Finite Element Results, Gerard R. Monforton, TN: ST4:Apr 72:955:8838

Thermal Buckling of Restrained Skew Plates, Mudlapur S. Suryanarayana Prabhu and Somayajulu Durvasula, TN: EM6:Dec 74:1292:10979

Skewness

Buckling of Simply Supported Skew Plates, Somayajulu Durvasula, EM3:June 71:967:8218

Skid Resistance

Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45

Making Highways Skid-proof, John L. Beaton, CE: Mar 71:42

Pennsylvania Tries Mastic Asphalt Pavement, Dale B. Melott, CE:June 73:56

Polymer as Surface Treatment for Concrete, Alvin H. Meyer, ST6:June 74:1205:10615

Sprinkle Treatment Increases Highway Skid Resistance, George W. Maupin, Jr., CE:Feb 72:51

Wearability of PC Concrete Pavement Finishes, Alvin H. Meyer, TE3:Aug 74:719:10736

Skiing

Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50

Skin (Structural Member)

Automatic Design Of Shell Structures, Pete. G. Smith and Edward L. Wilson, EC5:70:289

Skin Effect

Recent Results in French Research on Reinforced Earth, Francois Schlosser and Nguyen-Thanh-Long, CO3:Sept 74:223:10800

Well Efficiency and Skin Effect, Yaron M. Sternberg, TN: IR2:June 73:203:9766

Skin Friction

Experimental Behavior of Downdrag in Deep Foundations, Robert M. Koerner, TN: SM2:Feb 71: 515:7860

Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71: 1269:8367

Longitudinal Motions of Taut Moorings, Tokuo Yamamoto, John H. Nath and Charles E. Smith, WW1:Feb 74:35:10321

Vertical Stresses Due to Deep Foundations, Abraham Ellstein and Leonard Rapoport, 4PCSM:71:II243

Skyscrapers

Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72: 1069:8911

Earthquake-proof Design Gives Rise to First Japanese Skyscrapere, Kiyoshi Muto, CE:Mar 71:49

Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062

Lateral-Load Analysis of Asymmetric Multistory Structures, Jacob Gluck, ST2:Feb 70:317:7089

Model Investigations of Shear Wall Structures, Alexander Coull and Andrew W. Irwin, ST6:June 72:1223:8936

Plastic Design of Coupled Frame-Shear Wall Structures, Peter F. Adams and James G. MacGregor, ST9:Sept 70:1861:7505

Settlements Development: Observed Versus Predicted, Abraham Ellstein, PES:72:I-1073

Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72: 327:8675

Tests on Steel-Frame, Shear-Wall Structures, Sauren N.G. Majumdar and Peter F. Adams, ST4:Apr 71: 1097:8031

Slab on Ground Construction

The Shear Strength of Reinforced Concrete Members—Slabs, by the Joint ASCE-ACI Task Committee 426 on Shear and Diagonal Tension of the Committee on Masonry and Reinforced Concrete of the Sturctural Division, Neil M. Hawkins, Chmn., ST8:Aug 74:1543:10733

Structural Ground Concept and Wire Fabric Save Time and Money, Don Gehring, CE:Nov 71:50

Slabs

Absolute Minimum Volume Of Reinforcement In Slabs, George I.N. Rozvany and Sai R. Adidam, TN: ST5:May 72:1217:8896

Analysis by Group Iteration Using Substructures, Moshe F. Rubinstein and Duane E. Wikholm, ST2: Feb 68:363:5779

Analysis of Symmetrically Loaded Slab on Elastic Solid, Yang H. Huang, TN: TE2:May 74:537:10511

Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437

Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515

Collapse Loads For Continuous Slabs With Orthotropic Reinforcement, B. Vijaya Rangan, TN: ST9:Sept 72:2149:9162

Containerport Engineering for the Port of Oakland, E. F. Nielsen, CE:Jan 69:40

Crack Width Control in Reinforced Concrete Two-Way Slabs, Edward G. Nawy and Glenn S. Orenstein, ST3:Mar 70:701:7182

Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452

Deep Slabs Subjected to Static and Blast Loading, Gayle E. Albritton, ST11:Nov 69:2449:6919

Design Method for Vertical Anchor Slabs in Sand, N. Krebs Ovesen and Helle Stromann, PES:72:I-1481

Empirical Frequency Analysis of Bridge Deck Slabs, Simon F. Ng and Garnesh G. Kulkarni, TN: ST4: Apr 74:842:10456

Ferrocement—Material Behavior in Flexure, Colin D. Johnston and Dallas N. Mowat, ST10:Oct 74:2053: 10878

Finite Strip Method Analysis of Elastic Slabs, Yau-Kai Cheung, EM6:Dec 68:1365:6267
Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834
Free Transverse Vibration of Flat Slabs, Paul P. Lynn and Nahit Kumbasar, EM1:Feb 69:255:6425
Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, Eugene P. Holland, TB:73:III-25-805
Integral Equation Method for a Corner Plate, Cecil M. Segedin and D. Brickell, ST1:Jan 68:41:5711
Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617
Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485
Precast Concrete Panels Cut Cost of Apartment Complex, Zivan Cohen, CE:May 71:48
Prefabricated Highways, William Zuk, TE2:May 72:387:8895
Rapid Concrete Pavement Replaced in 1-1/2 Hours, Jens E. Simonsen, CE:Apr 74:62
Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488
Simplified Approach to Lower Bound Solutions of Slabs, B. Vijaya Rangan, TN: ST3:Mar 70:747:7118
Spandrel-Slab Interaction, Mario G. Salvadori, ST1:Jan 70:89:7017
Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
Structural Behavior of Prestressed Concrete Reactor Vessels, Stanley L. Paul, ST7:July 71:1879:8249
Structural Ground Concept and Wire Fabric Save Time and Money, Don Gehring, CE:Nov 71:50
Tests of a Two-Way Reinforced Concrete Floor Slab, William L. Gamble, Mete A. Sozen and Chester P. Siess, ST6:June 69:1073:6586
Two-Way Slab System with Beams, Phil M. Ferguson, CE:Aug 74:90
Ultimate Strength of Cellular Flat Plate, Unnikrishna S. Pillai and K. Sapru, TN: ST5:May 74:1162:10536
Vibration of Heavy Industrial Slabs, James H. Woodward and Claudie K. McDonald, TN: ST8:Aug 73:1797:9911

Slags
Building Damage From Expansive Steel Slag Backfill, Carl B. Crawford and Kenneth N. Burn, SM6:Nov 69:1325:6879
Building Damage from Expansive Steel Slag Backfill, Carl B. Crawford and Kenneth N. Burn, PISST:71:235

Slender Bodies
Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248

Slenderness Ratio
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348
Computer Analysis for Slender Concrete Columns, John Gaughan, ST10:Oct 74:2123:10894
Dynamic Stability of Thin-Walled Column, Carl H. Popelar, EM3:June 72:657:8978
Fatigue Strength of Hybrid Plate Girders, A. Anthony Toprac and Murugesam Natarajan, ST4:Apr 71:1203:8069
Plastic Behavior of Hollow Structural Sections, Robert M. Korol and John Hudoba, ST5:May 72:1007:8872
Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620

Sliding
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
Noncircular Sliding Surfaces, James M. Bell, SM3:May 69:829:6567
Potrero Hill Slide and Correction, Travis Smith and Raymond H. Forsyth, SM3:Mar 71:541:8004
Progressive Failure in Slopes of Overconsolidated Plastic Clay and Clay Shales, Laurits Bjerrum, SM5:Sept 67:1:5456
Shear Strength of Flat Surfaces in Rock, James H. Coulson, RM13:72:77
Slides in Residual Soils From Shale and Limestone, Harold T. Whitney, George F. Sowers and B. Roger Carter, 4PCSM:71:II139
A Study of a Slide-prone Clay in Panama, Ralph R. W. Beene, 4PCSM:71:II129
Study of Clay Shale Slopes, Don C. Banks, RM13:72:303

Sliding Resistance
Shear Strength of Flat Surfaces in Rock, James H. Coulson, RM13:72:77

Slime
Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
Sludges and Associated Problems Involving Agricultural Drains in Florida Wetlands, Harry W. Ford, SEA:70:15

Slip Forms
Application of Slip Form Techniques to Dam Construction, J. F. Camellerie, ECCD:72:223

Slip Joints
Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70

Slipping
Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72:2663:9423
Defining the Slip Resistance of Surfaces Used for Pedestrian Traffic, Robert D. Doering, BP73:Dec 73:261
Inelastic Analysis of R/C Frame Structures, Shunsuke Otani, ST7:July 74:1433:10686
Movement of Small Gas Bubbles in Smoothly Decelerating Liquid, Subba Rao Gutti, HY7:July 71:117:8251
Noncircular Sliding Surfaces, James M. Bell, SM3:May 69:829:6567
Seismic Analysis of Underground Structural Elements, Hemant H. Shah and Shih-Lung Chu, PO1:July 74:53:10648
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72:13:8625

Slope
Channel Friction and Slope Effects on Harbor Resonance, Richard Paul Shaw and Chi-Kwong Lai, WW3:Aug 74:205:10706
Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73:1551:10033

Slope Deflection Method
Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169
Behavior of Howe, Pratt, and Warren Trusses, John D. Renton, ST2:Feb 69:183:6388
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481

Slope Indicators

Investigation of Dynamic Taping, Bruce W. Golley and John Sneddon, SU2:Nov 74:115:10938

Slope Protection

Armor Stability of Overtopped Breakwater, Patrick T. Lording and John R. Scott, WW2:May 71:341:8138

At Glen Elder Dam: Improved Soil-Cement Placement Procedure Used, Edward W. Gray, Jr., CE:May 69:36

Slopes

Body-Force Stresses in Gravity Structures, Rowland Richards, Jr. and Werner E. Schmid, SM1:Jan 68:205:5749

Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837

Effect of Unit Weight and Slope on Erosion, Richard L. Foster and L. Glen Martin, IR4:Dec 69:551:6984

Flow Characteristics of Sloping Channel Jumps, Nallamuthu Rajaratnam and Valupadas Mura Hari, HY6:June 74:731:10594

Free Surface Slopes at Controls in Channel Flow, David L. Wilkinson, HY8:Aug 74:1107:10753

Ghanats of Iran: Drainage of Sloping Aquifer, Mohammed Bybordi, IR3:Sept 74:245:10785

An Interesting Case of Stability in a Rock Fill Slope, Carlos M. Nieble and Paulo T. Cruz, 4PCSM:71:II167

Kimbley Pit Slope Failure, James V. Hamel, 4PCSM:71:II117

Shear Strength and Stability of Man-Made Slopes, Awtar Singh, SM6:Nov 70:1879:7652

Shoaling of Finite Amplitude Long Waves on a Beach of Constant Slope, Yuichi Iwagaki and Tetsuo Sakai, CE13:72:I-347

Slope Stability in Residual Soils, Don U. Deere and F. D. Patton, 4PCSM:71:I87

Stability and Performance of Slopes and Embankments (Book Review), Jack W. Hilf, CE:Aug 70:90

Structural Systems for Very Tall Buildings, Hannskarl Bandel, TB:73:Ia-3-627

Slope Stability

Accuracy Equilibrium Slope Stability Analyses, Stephen G. Wright and Fred H. Kulhawy, SM10:Oct 73:783:10097

Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817

Applications of Limit Plasticity in Soil Mechanics, W. D. Liam Finn, SM5:Sept 67:101:5424

Bank Stabilization in Susquehanna River Basin, James E. Crews, WW1:Feb 70:87:7061

Borrego Mountain Earthquake of April 8, 1968, T. Leslie Youd and Robert O. Castle, SM4:July 70:1201:7396

Circular and Logarithmic Spiral Slip Surfaces, Eric Spencer, SM1:Jan 69:227:6361

Clay Chemistry and Slope Stability, James K. Mitchell and Richard J. Woodward, TN: SM10:Oct 73:905:10042

Coefficient of Friction of Natural Rock Surfaces, Bartlett W. Paulding, Jr., SM2:Mar 70:385:7121

Development of Failure Around Excavated Slopes, Peter Dunlop and James M. Duncan, SM2:Mar 70:471:7162

Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837

Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731

Failure of Underwater Slope in San Francisco Bay, James M. Duncan and Albert L. Buchignani, SM9:Sept 73:687:10019

Field Solutions for Turbulent Seepage Flow, Alan K. Parkin, SM1:Jan 71:209:7794

General Slope Stability Analysis, James M. Bell, SM6:Nov 68:1253:6222

The Hydrology and Stability of Cutover Slopes, Donald H. Gray and R. Peter Brenner, IAWM:72:295

Influence of Progressive Failure On Slope Stabilities, Fredy Romani, Charles William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349

Interactive Graphics: Settlement and Slope Stability, Robert L. Schiffman and Jack R. Stein, ST1:Jan 71:253:7832

Interactive Graphics: Settlement & Slope Stability, Robert L. Schiffman and Jack R. Stein, EC5:70:407

An Interesting Case of Stability in a Rock Fill Slope, Carlos M. Nieble and Paulo T. Cruz, 4PCSM:71:II167

Kimbley Pit Slope Failure, James V. Hamel, 4PCSM:71:II117

Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315

Landslides and Foundation Design, Hsai-Yang Fang, TB:73:Ia-11-1012

Limit Analysis Of Stability Of Slopes, Wai F. Chen and Max W. Giger, SM1:Jan 71:19:7828

Los Angeles County Flood Control System and the Early 1969 Storms, Walter J. Wood, CE:Jan 70:58

Los Angeles Hillside Developments Put To Test by Recent Rains, Jack J. Schoustra and T. D. Lake, CE:Nov 69:39

Noncircular Sliding Surfaces, James M. Bell, SM3:May 69:829:6567

Observational Data on Ground Movements Related to Slope Instability, Stanley D. Wilson, SM5:Sept 70:1519:7508

Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221

Progressive Failure in Slopes of Overconsolidated Plastic Clay and Clay Shales, Laurits Bjerrum, SM5:Sept 67:1:5456

Progressive Failure of Excavated Rock Slopes, Nicholas Barton, RM13:72:139

Rational Model Describing Slope Erosion, Dale L. Rowlison and Glen L. Martin, IR1:Mar 71:39:7981

Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023

Rheologic Aspects of Rock Slope Failure, C. D. Broadbent and K. C. Ko, RM13:72:573

Safety Analysis of Slopes, Tien H. Wu and Leland M. Kraft, Jr., SM2:Mar 70:609:7174

Seepage Force on Interfacial Bed Particles, C. Samuel Martin and Mustafa M. Aral, HY7:July 71:1081:8239

Seismic Failures of Chilean Tailings Dams, Ricardo Dobry and Leonardo Alvarez, SM6:Nov 67:237:5582

Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, GT2:Feb 74:139:10360

Slope Analysis for Explosive Excavations, Richard H. Gates, RM13:72:243

Slopes in Stiff-Fissured Clays and Shales, James M. Duncan and Peter Dunlop, SM2:Mar 69:467:6449

Slope Stability in Residual Soils, Don U. Deere and F. D. Patton, 4PCSM:71:I87

Soil Arching in Slopes, Wen L. Wang and Bing C. Yen, GT1:Jan 74:61:10300

Stability Analysis of Embankments, John Lowe, III, SM4:July 67:33:5305

Stability and Performance of Slopes and Embankments (Book Review), Jack W. Hilf, CE:Aug 70:90

Stability of Rock Slopes-Graphical Methods, Pierre Londe, Gaston Vigier and Raymond Vormeringer, SM4:July 70:1411:7435

Stability of Slopes Undergoing Creep Deformation, Bing C. Yen, SM4:July 69:1075:6675

Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82

Study of Clay Shale Slopes, Don C. Banks, RM13:72:303

Tectonic Stresses and Rock Slope Stability, Jerry S. Dodd and H. Walter Anderson, RM13:72:171

Tocks Island Project Spillway Rock Mechanics Studies, A. Depman, K. Dodds and D. Parrillo, RM13:72:443

Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Sludge
Attitudes in Sludge Treatment and Disposal, Richard I. Dick, EE5:Oct 74:1077:10844
Character of Sludge Drying, J. Charles Jennett and Israel W. Santry, Jr., SA5:Oct 69:849:6833
Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73: 365:9713
Design of Sludge Digestion Tanks, Richard D. Pomeroy, SA5:Oct 68:769:6137
Digestion: Concentration-Loading-Time Limits, Ralph H. Clark and V. Darryl Orr, TN: SA5:Oct 72:809:9229
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73: 923:10200
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72: 927:9443
Plant Performance Using Dissolved Oxygen Control, Joseph F. Roesler, EE5:Oct 74:1069:10841
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205: 9971
Sludges and Associated Problems Involving Agricultural Drains in Florida Wetlands, Harry W. Ford, SEA:70:15
Treatment of Mine Drainage by Industry in Pennsylvania, Walter N. Heine and Ernest F. Giovannitti, SA3:June 70:743:7362

Sludge Digestion
Chicago's Sludge-Recycling Project Wins 1974 Outstanding Civil Engineering Achievement Award, CE:June 74:43
Design of Sludge Digestion Tanks, Richard D. Pomeroy, SA5:Oct 68:769:6137
Digestion: Concentration-Loading-Time Limits, Ralph H. Clark and V. Darryl Orr, TN: SA5:Oct 72:809:9229
Drying of Sand-Digested Sludge Mixtures, Martin E. Harper and Brian W. Mar, SA2:Apr 70:381:7222
Physical Behavior of Flocculent Suspensions in Upflow, James C. Brown and Enrique LaMotta, SA2:Apr 71:209:8054
Role of Activated Sludge Final Settling Tanks, Richard I. Dick, SA2:Apr 70:423:7231

Sludge Disposal
Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
Chicago's Sludge-Recycling Project Wins 1974 Outstanding Civil Engineering Achievement Award, CE:June 74:43
Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73: 365:9713
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Hydrodynamic Analysis of Sludge Dumped in Coastal Waters, Billy L. Edge, CE13:72:III-2187
Japan Develops Water Pollution Control Technology, Takeshi Goda and Hisashi Sumitomo, CE:Nov 71: 42
Lagoon Disposal Of Water Treatment Plant Wastes, Paul H. King, Walter S. Medding and Clifford W. Randall, TN: SA4:Aug 70:1031:7445
New Wastewater Treatment Plant Reuses Its Oil Sludge, James W. Hubbell, CE:Sept 70:81
Ocean Dumping: What and Where, If at All?, Eugene E. Dallaire, CE:Nov 71:58
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72: 927:9443
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205: 9971
Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, Alexander Penman, CE:Nov 73:65

Sludge Drying
Character of Sludge Drying, J. Charles Jennett and Israel W. Santry, Jr., SA5:Oct 69:849:6833
Drying of Sand-Digested Sludge Mixtures, Martin E. Harper and Brian W. Mar, SA2:Apr 70:381:7222
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
New Wastewater Treatment Plant Reuses Its Oil Sludge, James W. Hubbell, CE:Sept 70:81
Scale-Up of Solid Bowl Centrifuge Performance, P. Aarne Vesilind, EE2:Apr 74:479:10474

Sludge Treatment
Analog Simulation of Activated Sludge Systems, Carl E. Burkhead and Don J. Wood, SA3:June 69:593: 6631
Design and Operation Model of Activated Sludge, Joseph H. Sherrard and Alonzo W. Lawrence, EE6: Dec 73:773:10220
Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, Alexander Penman, CE:Nov 73:65

Slug Flow
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045

Sluice Gates
Solution of Flow Under Sluice Gate, Yong Kwun Chung, EM1:Feb 72:121:8744

Sluices
Regional Planning Sewerage Systems, John D. Parkhurst, CWFE:Mar 71:337

Sluices (Hydraulic Engineering)
Aswan High Dam: Rockfill Built Under Water, Taher Abu-Wafa and Aziz H. Labib, CE:Aug 71:64

Slurries
Behavior of Bored Piles in Beaumont Clay, Michael W. O'Neill and Lymon C. Reese, SM2:Feb 72:195: 8741
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157
Homogeneous Suspensions in Circular Conduits, Walter H. Graf and Ertan R. Acaroglu, PL2:July 67:63:5352
Lime Slurry Pressure Injection Tames Expansive Clays, Paul J. Wright, CE:Oct 73:42
Pressurized-Slurry Shields Bore Submarine Tunnels, Takuya Ohira and Shunta Shiraishi, CE:May 72:55
Slurry-Trench Construction for Basement of World Trade Center, Martin S. Kapp, CE:Apr 69:36

Slurrying
Camanche Dike-2 Slurry Trench Seepage Cutoff, Walter F. Anton and David J. Dayton, PES:72:I-735
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845
The Performance of a Subway Excavation, T. William Lambe, L. Anthony Wolfskill and Walter E. Jaworski, PES:72:I-1403
Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259
Performance of Two Slurry Wall Systems in Chicago, James A. Cunningham and Jose I. Fernandez, PES: 72:I-1425
Slurry-Trench Construction for Basement of World Trade Center, Martin S. Kapp, CE:Apr 69:36
Soils Engineering For Wells Project, Harris H. Burke, PO2:Mar 71:317:7976
Soil-Structure Interaction, Ralph B. Peck, PES:73:II-145
Soil-Structure Interaction -- Reporter's Remarks, Gerald W. Clough, PES:73:III-247

Small Watersheds
Flood Frequency Estimating Techniques for Small Watersheds, George Fleming and Delbert D. Franz, HY9:Sept 71:1441:8383

Smoke
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061

Smoke Abatement
Clean Air Management in Allegheny County, Pa., Edward L. Stockton, SA5:Oct 70:1211:7609

Smoothness
Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830

Snails
Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994

Snow
Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826
Effect of Snow Cover on Upward Movement of Soil Moisture, Eugene L. Peck, IR4:Dec 74:405:10989
Long-Chain Alcohol Suppression of Snow Evaporation, James R. Meiman and Charles W. Slaughter, HY6:Nov 67:271:5598
Operational Experience with Snow Pillows in California, Glenn H. Castel, IR1:Mar 69:105:6444
Successful Ice Dusting at Fairbanks, Alaska, 1966, R. Gordan Cook and Mason D. Wade, Jr., HY1:Jan 68:31:5717
Volume of Snowmelt Intercepted by Logging Roads, Edward R. Burroughs, Jr., Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770
Water Pollution and Associated Effects from Street Salting, Richard Field, Edmund J. Struzeski, Jr., Hugh E. Masters and Anthony N. Tafuri, EE2:Apr 74:459:10473
Weather Modification as a Watershed Management Tool, Merlin C. Williams, IR1:Mar 69:15:6434

Snowfall
Ecological Consequences of Winter Cloud Seeding, Theodore W. Weaver and Arlin B. Super, IR3:Sept 73:387:9988
Snow Fence Shielding of Precipitation Gages, Paul A. Rechard and Lee W. Larson, HY9:Sept 71:1427:8386

Snow Management
Snow Fence Shielding of Precipitation Gages, Paul A. Rechard and Lee W. Larson, HY9:Sept 71:1427:8386

Snowpacks
Suppression of Evaporation Losses from Snowpacks, James L. Smith and Howard G. Halverson, IAWM:72:5

Snow Removal
Routing for Public Service Vehicles, David H. Marks and Robert Stricker, UP2:Dec 71:165:8573

Snow Surveys
Reservoir Operation Using Snow Survey Data, Phillip E. Farnes, HYB:Aug 73:249

Social Aspects
Are Civil Engineers Socially Responsible?, David Crump, CE:Jan 72:59
Assuring a Desirable Quality of Life, CE:Sept 71:73
Assuring a Desirable Quality of Life, PWS:Nov 72:237
Civil Engineering and Public Affairs: New Direction in Undergraduate Education at Carnegie-Mellon University, Francis Clay McMichael, CEE:Feb 74:1-689
Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255
Educating Public Works Engineers and Administrators, Donald C. Stone, CEE:Feb 74:1-679
Management Degree Program for Employed Public Works Directors, A. Morgan Johnson, CEE:Feb 74:1-728
Management Education for Civil Engineers, Stephens W. Nunnally and William H. Wisely, CEE:Feb 74:1-696
Public Works Engineering and Administration- The Pittsburgh Experience, George M. Tomsho and Joel I. Abrams, CEE:Feb 74:1-723
Simulation Techniques for Water Project Analyses, Milton L. Holloway and Lial F. Tischler, IR3:Sept 74:211:10784
Societal Factors and Tall Buildings, State-of-Art Report 2, Charles Brownstein and Leonard Ruchelman, TB:72:C-AC19-151
The Socio-Engineering Program at S.U.N.Y.-Buffalo, George C. Lee, CEE:Feb 74:1-703
Socio-Technical Programs in Civil Engineering at O.S.U., Michael B. Godfrey and Elbert E. Whitlatch, Jr., CEE:Feb 74:1-713
Weather Modification and People, Robert G. Beebe, OIDS:72:435

Social Change
Challenges for ASCE, Samuel S. Baxter, CE:July 71:67
Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468
Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884
Social Considerations of Urban Transportation Systems, Robert L. Morris, TE3:Aug 70:333:7471
"The Third Sector," by Theodore Levitt (Book Review), Samuel C. Florman, CE:June 74:28

Social Communication
Assuring a Desirable Quality of Life, CE:Sept 71:73
Assuring a Desirable Quality of Life, PWS:Nov 72:237

Social Needs
Analyzing Urban Transporatation Innovations, Joseph L. Schofer, UTI:71:187
Antidote for Environmental Hysteria, Samuel S. Baxter, PP1:Jan 72:1:8663
Are Civil Engineers Socially Responsible?, David Crump, CE:Jan 72:59
ASCE Tackles Land Use Planning, Kneeland A. Godfrey, Jr., CE:July 74:66
Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566
Behavior and Transit Vehicle Design, Robert Lepper, MTI:May 72:37
The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667
Citizens--A Vital Part of Transportation Planning, Arnold M. Cogan and Wallace A. Dela Barre, TN: TE1:Feb 74:289:10311
Citizens help plan Ottawa freeway, CE:July 74:60
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73:69:9599
Civil Engineering and Public Affairs: New Direction in Undergraduate Education at Carnegie-Mellon University, Francis Clay McMichael, CEE:Feb 74:1-689
The Civil Engineer in the Multidisciplinary Design Team, David A. Novick, PP2:Apr 72:221:8826
The Civil Engineer of the Future - A Renaissance Man, David A. Novick and Sheldon Schumacher, PP1:Jan 73:9:9489
Commentary, Irving Scheinbart, CEWAU:74:221
Commentary, Ernest N. Linder, CEWAU:74:262
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
Considering Social Value in Engineering Projects, Charles G. Sudduth, PP1:Jan 72:43:8655

Consumers Water Quality Index, Thomas M. Walski and Frank L. Parker, EE3:June 74:593:10601
Defending the Environment: A Strategy for Citizen Action, by Joseph L. Sax (Book Review), Gilbert White, CE:Sept 71:20
Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4: Nov 72:807:9320
Designing Transportation for People, James M. Beggs, MTI:May 72:7
Development of a Planning Program: A Case Study, William K. Johnson, Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71
Doctoral Education and the Practicing Professional, Warren J. Baker and Edward J. Rhomberg, CEE: Feb 74:1-764
Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
Educating Public Works Engineers and Administrators, Donald C. Stone, CEE:Feb 74:1-679
Education for Leadership, C. Maxwell Stanley, CEE: Feb 74:1-312
Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367: 9751
The Engineer and the Environment, C. Maxwell Stanley, CE:July 72:78
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Engineering and Today's Social Problems, Donald C. Slichter, CE:Mar 72:64
Engineering Education for Public Participation, John W.N. Fead, CEE:Feb 74:1-525
Engineering Policies, Politics, and Pragmatism, Robert F. Baker, TE1:Feb 74:121:10320
The Engineer's Role, Frederick J. Clarke, PP2:Apr 72:163:8825
Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1: Jan 72:33:8657
Evaluation of National Priorities: The Post Interstate Highway System, Paul L. Sitton, UTI:71:3
The Future of Private Engineering Education, Wils L. Cooley and Clive L. Dym, EI2:Apr 74:97:10458
Future Transportation Planning for People by UMTA, Carlos C. Villarreal, MTI:May 72:17
Goal Formulation for Socio-technical Systems, G. Scott Rutherford, Joseph L. Schofer and Martin Wachs, UP2:Sept 73:157:9985
Goals for Dallas Program, Erik Jonsson, CE:Sept 72: 58
Graduate Management Curricula for Experienced Engineers, William D. Brinckloe, Alfred C. Ingersoll and Ricardo Gonzales, Jr., CE:Sept 74:99
Health Aspects of Water Management, Daniel A. Okun, PWS:Nov 72:133
Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment, Thomas A.L. Paton, PWS:Nov 72:81
Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137
In Defense of Dubos and Ellul, Kim de Rubertis, CE: Dec 72:51
Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662
Introducing Undergraduates to Environmental Quality, Alonzo W. Lawrence, CEE:Feb 74:1-83
Introduction to Session VI -- Applications of New Technology to the Solution of Environmental Problems, Samuel S. Baxter, PWS:Nov 72:201
Irrigation Development in Bangladesh, Stephen V. Allison and Kazi F. Jalal, IR1:Mar 74:69:10394
Land Use Plans: Preparing One, Legislation; How to Prepare a Plan, CE:Aug 74:51
Legal and Institutional Constraints in Consolidating Irrigation Systems, George E. Radosevich, OIDS: 72:349
Let's Make the Needs Known so Someone Will Do Something About Them, Lawrence D. Dahms, NA: Mar 71:1
Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953
Making Engineering Curricula More Relevant, Mario G. Salvadori, CE:June 74:70
Mall Planning Strategy, Don C. Miles, BP73:Dec 73: 675
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72: 115
Needed - A New Outlook for Irrigation, Ellis L. Armstrong, OIDS:72:1
New Approaches to Urban Transportation Needs, Jack Kinstlinger, NA:Mar 71:197
New Directions and Techniques in Highway Location Planning, Stanley L. Peters, TE2:May 74: 305:10518
Optimization of an Existing Large Complex Drainage System, N. N. Khanal and Robert L. Hamrick, OIDS:72:503
Organizational Alternatives in Consolidating Irrigation Systems, Evan Vlachos, OIDS:72:317
Participation Planning for Boston Metro-Area Transportation, John G. Wofford, CE:Apr 73:78
Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539
Planning for Clean Water in Terms of the Ecology and Social Environment, Percy H. McGauhey, CWFE:Mar 71:29
Principles and Standards for Water and Land Resources Planning, W. Don Maughn, PP3:July 72: 311:9059
Private Enterprise Aids Public Recreation, Douglas W. Barr, IAWM:72:399
Professional Aspects of Public Works Management, Myron D. Calkins, CEE:Feb 74:1-339
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509
Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487
Public Participation in Environmental Design of Flood Control Channels, Phillip F. Dunn, Jr., PP3: July 72:363:9051
Public Participation in Planning the St. John River, Desmond M. Connor and Keith T. Bradley, OIDS: 72:279
Public Participation in the I-66 Corridor Transportation Alternates Study, John P. Fowler, II, UT73:May 73:11
Public Participation in Urban Transit Service, Michael G. Ferreri, TE4:Nov 73:701:10121
Public Policy: Who Speaks for the Engineer, Augustine J. Fredrich, EI1:Jan 74:1:10266
Public Service Facilities and the Environment, George E. Tomlinson, PWS:Nov 72:95
Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351: 8888
Purdue Students Tackle Social Projects, David Brenchley, Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83
Report on the Session on Planning for Clean Water in Terms of Ecology and the Social Environment, William F. Garber, CWFE:Mar 71:35
Role of a Small College in Education of Engineers, Jon A. Cole and Edward F. Cross, CEE:Feb 74:1-55
The Role of the Civil Engineer in Statewide Health Planning, William H. Wisely, PP4:Oct 72:669:9284
Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
Small Budget Rapid Transit, Louis T. Klauder, NA: Mar 71:69
Social and Institutional Aspects of Irrigation and Drainage, Asit K. Biswas, OIDS:72:261
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139

Societal Factors and Tall Buildings, State-of-Art Report 2, Charles Brownstein and Leonard Ruchelman, TB:72:C-AC19-151
Dsc, Society and technology, Felipe U. Derteano, CE:May 72:54
The Socio-Engineering Program at S.U.N.Y.-Buffalo, George C. Lee, CEE:Feb 74:1-703
Socio-Technical Programs in Civil Engineering at O.S.U., Michael B. Godfrey and Elbert E. Whitlatch, Jr., CEE:Feb 74:1-713
Some Notes on Approaches and Viewpoints of Private Agencies to Metropolitan Water Management, Stifel W. Jens, UWRM:71:47
Some Reflections at Retirement Time, William H. Wisely, CE:Apr 72:45
Some Thoughts on Urban Transportation Goals and Objectives, Milton Pikarsky, NA:Mar 71:25
Statewide Transportation Planning, Frederick J. Wegmann and Everett C. Carter, TE2:May 73:323:9734
Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658
Student Assistance for Local Governments, Lansford C. Bell, CEE:Feb 74:1-143
A Study in Community Support: The Wheat Ridge Story, Boyd A. Kraemer, BP73:Dec 73:285
Systematically Analyzing Transportation Alternatives, Marvin L. Manheim and Earl R. Ruiter, UTI:71:207
Systems and Concepts, Preface, Fazlur R. Khan, TB:73:Ia-1
Tall Buildings in the World (The Viewpoint of a Non-American), Duiliu Sfintesco, TB:73:C-13
Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512
Theory and Practice of Public Participation in Planning, Gene E. Willeke, IR1:Mar 74:75:10391
Toward A Socio-Technology of High Rise Buildings, George Bugliarello and Harold Simon, TB:73:Ia-1-270
Transportation and Urban Renewal - Experience in the United Kingdom, William K. Mackay, UP1:Mar 73:1:9624
Transportation Planning Myths and Realities, Raymond H. Ellis, UTI:71:243
Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955
The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
Urban Transportation - A Persistent Paradox, John C. Kohl, NA:Mar 71:61
Urban Transportation Needs: Problems and Solutions, Austin E. Brant, Jr., Dana E. Low and Gerald P. Shea, NA:Mar 71:13
User Oriented Approach to Housing Design for Indians, Richard D. Bauman and Arn Henderson, UP1:Mar 74:29:10384
Ut Prosimus et Ducamus, Dan H. Pletta, CEE:Feb 74:1-459
Walt Disney World -- A Philosophy of Planning, William E. Potter, PWS:Nov 72:71
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56
Weather Modification and People, Robert G. Beebe, OIDS:72:435
WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121
Youth Makes Waves About Dirty Water, Ray Morales and Ralph Wagner, CWFE:Mar 71:43
236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

Social Organization

Assuring a Desirable Quality of Life, CE:Sept 71:73
Assuring a Desirable Quality of Life, PWS:Nov 72:237

Social Participation

Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409
ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77
ASCE Involvement in Social Action, Stephen L. Tuttle, EI3:July 74:201:10690
ASCE Tackles Land Use Planning, Kneeland A. Godfrey, Jr., CE:July 74:66
Berkeley Offers Professional Masters Degree, Howard D. Eberhart, CE:Nov 73:74
Boulder Creek - An Environmental Status Report, Gerard E. Mick, CO1:Mar 74:1:10389
The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667
Citizen Participation: Here to Stay, Gene E. Willeke, CE:Jan 74:78
Citizens--A Vital Part of Transportation Planning, Arnold M. Cogan and Wallace A. Dela Barre, TN:TE1:Feb 74:289:10311
Citizens help plan Ottawa freeway, CE:July 74:60
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73:69:9599
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880
Civil Engineering and Public Affairs: New Direction in Undergraduate Education at Carnegie-Mellon University, Francis Clay McMichael, CEE:Feb 74:1-689
The Civil Engineer in Urban Affairs and Planning, Sigurd Grava, CEE:Feb 74:1-173
The Civil Engineer's Image, Edward H. Kiessling, CEWAU:74:273
Commentary, Irving Scheinbart, CEWAU:74:221
Commentary, Ernest N. Linder, CEWAU:74:262
Correlation of Environmental Impact Evaluations and Highway Transportation Planning, Gerald D. Love, UT73:May 73:71
A Counter-Perspective on Pollution Problems, Jimmie L. Thomas, CE:Aug 74:80
Development of a Planning Program: A Case Study, William K. Johnson, Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71
Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442
Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751
Engineering Education for Public Participation, John W.N. Fead, CEE:Feb 74:1-525
Engineering Education Versus Engineering Practice, Michael N. Goodkind, CEE:Feb 74:1-452
Engineering Students Learn Social Awareness at UMR, Fred Lamar, CE:May 74:54
Environmental Impact of the New Jersey Turnpike Toms River Extension, John C. Goodrich and Byron H. Willis, UT73:May 73:253
Evaluating Regional Plans and Community Impacts, Joseph L. Schofer and Darwin G. Stuart, UP1:Mar 74:93:10412
The Future of Private Engineering Education, Wils L. Cooley and Clive L. Dym, EI2:Apr 74:97:10458
Goal Formulation for Socio-technical Systems, G. Scott Rutherford, Joseph L. Schofer and Martin Wachs, UP2:Sept 73:157:9985
Graduate Management Curricula for Experienced Engineers, William D. Brinckloe, Alfred C. Ingersoll and Ricardo Gonzales, Jr., CE:Sept 74:99
Health Aspects of Water Management, Daniel A. Okun, PWS:Nov 72:133
How to Entice Minority Youth into Engineering, Howard Jackson, CE:July 74:54
Humanities and Social Sciences in Engineering Education, 1974, Omer Allan Gianniny, Jr., CEE:Feb 74:1-530
Improving Environmental Impact Procedures for Highway Projects, James Cianciosi and Allan G.R. Bullen, UT73:May 73:33
Introducing Undergraduates to Environmental Quality, Alonzo W. Lawrence, CEE:Feb 74:1-83
Introduction to Session VI -- Applications of New Technology to the Solution of Environmental Problems, Samuel S. Baxter, PWS:Nov 72:201
Irrigation Development in Bangladesh, Stephen V. Allison and Kazi F. Jalal, IR1:Mar 74:69:10394

Land Use Plans: Preparing One, Legislation; How to Prepare a Plan, CE:Aug 74:51
Mall Planning Strategy, Don C. Miles, BP73:Dec 73: 675
New Approach to Site Selection Studies, W. Ray Seiple, PO1:July 74:63:10643
New Directions and Techniques in Highway Location Planning, Stanley L. Peters, TE2:May 74: 305:10518
Observations on Civil Engineering Executive/ Management Needs as a Part of Civil Engineering Education, Walter G. Heintzleman, CEE:Feb 74:1-361
Participation Planning for Boston Metro-Area Transportation, John G. Wofford, CE:Apr 73:78
Professional Aspects of Public Works Management, Myron D. Calkins, CEE:Feb 74:1-339
Promotion as a Bikeway Planning Factor, Norman R. Hawirko, BP73:Dec 73:661
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509
Public and Legislative Support for Bikeways, John Auerbach, BP73:Dec 73:20
Public Participation in the I-66 Corridor Transportation Alternates Study, John P. Fowler, II, UT73:May 73:11
Public Participation in Urban Transit Service, Michael G. Ferreri, TE4:Nov 73:701:10121
Public Policy: Who Speaks for the Engineer, Augustine J. Fredrich, EI1:Jan 74:1:10266
Purdue Students Tackle Social Projects, David Brenchley, Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83
Reappraising Metropolitan Transportation Needs, Thomas F. Humphrey, TE2:May 74:353:10532
Reexamination of Transportation Planning, Raymond H. Ellis, TE2:May 73:371:9752
Role of a Small College in Education of Engineers, Jon A. Cole and Edward F. Cross, CEE:Feb 74:1-55
Role of the Public in Weather Modification, Adrian R. Chamberlain, IR73:Aug 73:171
San Antonio: Classic "Stop the Freeway" Case, Virginia Fairweather, CE:July 73:59
San Francisco BCDC Revisited, E. Jack Schoop, CE: Apr 73:71
Social Concerns—Nuclear Offshore River Basin Construction, Harlan W. Fair, CO1:Mar 74:51: 10417
The Socio-Engineering Program at S.U.N.Y.-Buffalo, George C. Lee, CEE:Feb 74:1-703
Socio-Technical Programs in Civil Engineering at O.S.U., Michael B. Godfrey and Elbert E. Whitlatch, Jr., CEE:Feb 74:1-713
Statewide Transportation Planning, Frederick J. Wegmann and Everett C. Carter, TE2:May 73:323: 9734
Student Assistance for Local Governments, Lansford C. Bell, CEE:Feb 74:1-143
A Study in Community Support: The Wheat Ridge Story, Boyd A. Kraemer, BP73:Dec 73:285
Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062
Theory and Practice of Public Participation in Planning, Gene E. Willeke, IR1:Mar 74:75:10391
"The Third Sector," by Theodore Levitt (Book Review), Samuel C. Florman, CE:June 74:28
Toward A Socio-Technology of High Rise Buildings, George Bugliarello and Harold Simon, TB:73:Ia-1-270
Transformation of Plans into Actions, Johannes W Kurz, UP2:Sept 73:183:10029
Walt Disney World -- A Philosophy of Planning, William E. Potter, PWS:Nov 72:71
WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121

Social Reforms
ASCE and Social Issues, Oscar S. Bray, CE:May 71: 58
Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884

Social Sciences
Humanities and Social Sciences in Engineering Education, 1974, Omer Allan Gianniny, Jr., CEE: Feb 74:1-530

Social Values
The City Viewpoint on Environmental Issues, Milton Pikarsky, UT73:May 73:1
The Public Discussion of the Work of Other Engineers—Ethical or Unethical, Harold H. Wagle, EI1:Jan 74:37:10268
Urban Commodity Flow - Suggested Research Projects, Warren B. Lovejoy, UP1:July 72:55:9047

Societies
Using Technology to Solve Environmental Problems, Ernest T. Smerdon and Robert B. Gaither, EI4:Oct 74:273:10847

Sociology
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897
Use of Sociology in Design Practice, Robert Gutman, ABS:71:109

Soil Analysis
Computer Aids Draftsmen in Soil Profiles and Analysis, George Kisak and B. James Greenfield, CE:Feb 71:67
Slope Stability in Residual Soils, Don U. Deere and F. D. Patton, 4PCSM:71:I87

Soil Cement
At Glen Elder Dam: Improved Soil-Cement Placement Procedure Used, Edward W. Gray, Jr., CE:May 69:36
Need for Estimated Cement Requirements for Stabilizing Lateritic Soils, Samuel A. Ola, TE2:May 74:379:10534
Soil-Cement Bases Under Thin Bituminous Surfacing, Boniface C. Obi, TE2:May 72:167:8871
Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12: Dec 72:1375:9454

Soil Chemistry
Estimating Soil Permeability Rates, Merlin E. Horn, IR2:June 71:263:8169
A Method for Specifying Percentage Soil Compaction, Edward J. Monahan, CE:May 74:82

Soil Classification
Important Ground Parameters in Soft Ground Tunneling, Donald E. Heuer, EFSE:Aug 74:41
Standardization of Particle-Size Ranges, Charles C. Ladd, SM5:Sept 69:1247:6795

Soil Classifications
Rapid Determination of Plasticity Index, Roland A. Pettitt, CE:May 71:74

Soil Compacting
A Possible 1-Point System Method For Laboratory Compaction Testing, John J. Galvan, CE:Mar 72:78

Soil Compaction
Stress-Strain Properties of Compacted Clays, David E. Daniel and Roy E. Olson, GT10:Oct 74:1123: 10869

Soil Conservation
Estimation of Rainfall Erosion Index, John K.H. Ateshian, IR3:Sept 74:293:10817

Soil Consolidation Tests
Consolidation Properties of Wilkinson Basin Soils, Peter T. Dzwilewski and Adrian F. Richards, TN: GT10:Oct 74:1175:10857

Soil Density
Standard Penetration Test for Sand Denseness, Harold J. Gibbs, 4PCSM:71:II27
Standard Test Boring with Drilling Mud, Charles S. Hedges, 4PCSM:71:II63

Soil Dynamics

Blast Loaded Buried Arches, Jimmy P. Balsara, EM1: Feb 70:1:7058

Propagation of Waves in Dissipative Media, Burak Erman, Fuat Guzaltan and Attila Askar, TN: GT12:Dec 74:1321:10981

Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., GT3:Mar 74:247:10410

Torsional Vibrations of Circular Foundations, Gerd F. Weissmann, SM9:Sept 71:1293:8402

Soil Erosion

Estimation of Rainfall Erosion Index, John K.H. Ateshian, IR3:Sept 74:293:10817

Preloading for Heavy Industrial Installations, Panaghiotis C. Kotzias and Aris C. Stamatopoulos, PISST:71:321

Sedimentation Engineering, Chapter VI: Economic Aspects of Sedimentation, Vito A. Vanoni, Chmn., HY1:Jan 69:191:6334

Stream Enrichment from Farm Operations, Neal E. Minshall, Stanley S. Witzel and M. Starr Nichols, SA2:Apr 70:513:7238

Soil Formation

Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375

Soil Investigations

Foundation Design of the Waterford Nuclear Plant, Joseph L. Ehasz, Jr. and E. Radin, SDNPF:Dec 73: 83

High Fills Resting on Residual Soils (in Spanish), Christian K. De Fries and Edgar Pardo Stolk, 4PCSM:71:II153

A Recommended Borehole Investigation System for Soft Ground, Stephen Alsup, EFSE:Aug 74:117

Soil Liquefaction

Soil Liquefaction by Torsional Simple Shear Device, Isao Ishibashi and Mehmet A. Sherif, GT8:Aug 74: 871:10752

Soil Mechanics

Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270

Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72: 327:8827

Accuracy Equilibrium Slope Stability Analyses, Stephen G. Wright and Fred H. Kulhawy, SM10: Oct 73:783:10097

Accuracy of Field Deformation Measurements, James P. Gould and C. John Dunnicliff, 4PCSM:71:I313

Aging Effects on Swell Potential of Compacted Clays, Gabriel Kassiff and Raphael Baker, SM3: Mar 71:529:7951

Air Permeability of Compacted Cohesive Soils, Leonard J. Langfelder, C. F. Chen and J. A. Justice, SM4:July 68:981:6040

The Allowable Settlement and the Design of Foundations, Fernando Emmanuel Barata, 4PCSM: 71:II197

Analysis and Design of Tower Foundations, Richard L. Wiggins, PO1:Mar 69:77:6469

Analysis of an Inhomogeneous Elastic Half-Space, W. David Carrier, III and John T. Christian, TN: SM3: Mar 73:299:9632

Analysis of Arching Pressures in Ideal Elastic Soil, Zv. Getzler, Menachem Gellert and Ruben Eitan, SM4:July 70:1357:7431

Analysis of Circular Footings on Layered Soils, Chandrakant S. Desai and Lymon C. Reese, SM4: July 70:1289:7408

An Analysis of Consolidation Theories, Robert L. Schiffman, Albert T-F Chen and Jane C. Jordan, SM1:Jan 69:285:6370

Analysis of Load-Bearing Fills over Soft Subsoils, James K. Mitchell and William S. Gardner, SM11: Nov 71:1549:8522

Analysis of Longitudinal Behavior of Buried Pipes, Harry G. Poulos, GT74:June 74:199

Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391: 9740

Analysis of Sheffield Dam Failure, H. Bolton Seed, Kenneth L. Lee and Izzat M. Idriss, SM6:Nov 69: 1453:6906

Analysis of Soil Movement Around a Deep Excavation, Chin-Yung Chang and James M. Duncan, SM5:Sept 70:1655:7512

Analysis of the Triaxial Test for Granular Soils, Paul R. Paslay and Jay B. Weidler, EM3:June 69:587: 6611

Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480

Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210

An Analytical Description of the Behavior of Granular Media, Jay B. Weidler and Paul R. Paslay, EM2:Apr 69:379:6491

Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187: 9338

Apollo 11: Soil Mechanics Results, Nicholas C. Costes, W. David Carrier, III, James K. Mitchell and Ronald F. Scott, SM6:Nov 70:2045:7704

Applications of Limit Plasticity in Soil Mechanics, W. D. Liam Finn, SM5:Sept 67:101:5424

Axial Stress-Strain Characteristics of Sand, Herbert Breth, Ernst Schuster and Prabhakar J. Pise, SM8: Aug 73:617:9919

Axisymmetric Stress Wave Propagation in Sand, Richard A. Wetzel and Eben Vey, SM5:Oct 70: 1763:7539

Bearing Capacities by Plasticity Theory, Hon-Yim Ko and Ronald F. Scott, SM1:Jan 73:25:9497

Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73: 433:9816

Bearing Capacity Factors for Inclined Loads, N. S.V. Kameswara Rao and S. Krishnamurthy, TN: SM11: Nov 72:1286:9312

Bearing Capacity of Anisotropic Cohesive Soil, Edward H. Davis and John T. Christian, SM5:May 71:753:8146

Bearing Capacity of Eccentrically Loaded Footings, Shamsher Prakash and Swami Saran, SM1:Jan 71: 95:7814

Bearing Capacity of Footings in Plane Strain, Hon-Yim Ko and Luther W. Davidson, SM1:Jan 73:1: 9496

Bearing Capacity of Footings on Anisotropic Soils, Annapareddy Siva Reddy and Ramanathan J. Srinivasan, SM6:Nov 70:1967:7677

Bearing Capacity of Foundation on Sand, Assad Abdul-Baki and Lewis A. Beik, SM2:Mar 70:545: 7158

Bearing Capacity of Partly Saturated Soils, Annapareddy Siva Reddy and Gavidi Mogaliah, TN: SM6:Nov 70:2175:7646

Bearing Capacity Theory From Experimental Results, A. Verghese Chummar, SM12:Dec 72:1311:9411

Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626

Behavior of Dry Sands under Cyclic Loading, D. H. Timmerman and Tien H. Wu, SM4:July 69:1097: 6698

The Behavior of Foundations During Construction, T. William Lambe, SM1:Jan 68:93:5740

Behavior of Laterally Loaded Piles: I-Single Piles, Harry G. Poulos, SM5:May 71:711:8092

Behavior of Laterally Loaded Piles: II-Pile Groups, Harry G. Poulos, SM5:May 71:733:8093

Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837

Behavior Of Porous Bed Near Flow Singularity, C. Samuel Martin, SM2:Feb 71:393:7935

Behavior of Returned Lunar Soil in Vacuum, W. David Carrier, III, Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156

Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71: 1675:8577

Behavior of Single Mineral Soils in Triaxial Shear, Robert M. Koerner, SM4:July 70:1373:7432
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
Body-Force Stresses in Gravity Structures, Rowland Richards, Jr. and Werner E. Schmid, SM1:Jan 68:205:5749
Bonding, Effective Stresses and Strength of Soils, T. S. Ramanatha Iyer, Awtar Singh and Richard G. Campanella, SM5:Sept 69:1219:6786
Borrego Mountain Earthquake of April 8, 1968, T. Leslie Youd and Robert O. Castle, SM4:July 70:1201:7396
Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4:Apr 72:311:8817
Braced Excavations, T. William Lambe and Edmund K. Turner, LS:70:149
Breakout Resistance of Objects Embedded In Ocean Bottom, Aleksandar Sedmak Vesic, CEO-II:70:137
Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71:1183:8372
Bridge Foundation Behavior in Alaska Earthquake, Grant A. Ross, H. Bolton Seed and Ralph R. Migliaccio, SM4:July 69:1007:6664
Buckling of Fully and Partially Embedded Piles, Annapareddy Siva Reddy and Arun J. Valsangkar, SM6:Nov 70:1951:7688
Buckling of Partially Embedded Piles in Sand, Kenneth L. Lee, SM1:Jan 68:255:5754
Buckling of Soil-Surrounded Tubes, James A. Cheney, EM4:Aug 71:1121:8297
Building Damage From Expansive Steel Slag Backfill, Carl B. Crawford and Kenneth N. Burn, SM6:Nov 69:1325:6879
Building Damage from Expansive Steel Slag Backfill, Carl B. Crawford and Kenneth N. Burn, PISST:71:235
The Business and Practice of Foundation Engineering in Venezuela, Gustavo Perez Guerra, 4PCSM:71:II379
Buttress Design Earthquake-Induced Slides, Erwin Long and Warren George, SM4:July 67:595:5332
Calculated and Observed Vibration Amplitudes, Peter J. Moore, SM1:Jan 71:141:7789
Capacitance Techniques For Radial Deformations, Adolph G. Altschaeffl and Louis P. Mishu, TN: SM4:July 70:1487:7387
Carbonate Cementation in Deep-Ocean Sediments, William E. Kelly, Vito A. Nacci, Mian C. Wang and Kenneth R. Demars, TN: GT3:Mar 74:383:10420
Case History -- Embankment Failure on Soft Varved Silt, Richard S. Haupt and James P. Olson, PES:72:I-1
Causes of Clay Sensitivity, James K. Mitchell and William N. Houston, SM3:May 69:845:6568
Characteristics of Rock Motions During Earthquakes, H. Bolton Seed, Izzat M. Idriss and Fred W. Kiefer, SM5:Sept 69:1199:6783
Chemical Grouting Technology, Reuben H. Karol, SM1:Jan 68:175:5748
Circular and Logarithmic Spiral Slip Surfaces, Eric Spencer, SM1:Jan 69:227:6361
Circular Discontinuously Braced Excavation (In Spanish), Andres Perez M., 4PCSM:71:II203
Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
Civil Engineers in the Aerospace Program, Stewart W. Johnson, ESE:Apr 70:127
Clay Chemistry and Slope Stability, James K. Mitchell and Richard J. Woodward, TN: SM10:Oct 73:905:10042
Coefficient of Friction of Natural Rock Surfaces, Bartlett W. Paulding, Jr., SM2:Mar 70:385:7121
Coefficient of Secondary Compression, Gholamreza Mesri, SM1:Jan 73:123:9515
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075
Collapse of Fargo Grain Elevator, Reymond L. Nordlund and Don U. Deere, SM2:Mar 70:585:7172
Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568
Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908
Compaction Grouting Technique and Observations, Edward D. Graf, SM5:Sept 69:1151:6766
Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939:10170
Compaction of Sands By Repeated Shear Straining, T. Leslie Youd, SM7:July 72:709:9063
Compaction of Slightly Organic Soils, Arley G. Franklin, Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873
Comparative Study of Soil Spring and Finite Element Models for Seismic Soil-Structure Interaction Analysis of Nuclear Power Plants, P. K. Agrawal, Shih-Lung Chu and Hemant H. Shah, SDNPF:Dec 73:63
Compared Experiences with the S.P.T. (In Spanish), C. M. Arce, F. L. Torres and H. J. Vercelli, 4PCSM:71:II95
Comparison of Footing Vibration Tests with Theory, Frank E. Richart, Jr. and Robert V. Whitman, SM6:Nov 67:143:5568
Comparison of Plane Strain and Triaxial Tests on Sand, Kenneth L. Lee, SM3:May 70:901:7276
Comparison of Stress-Dilatancy Theories, George J. W. King and Edward A. Dickin, SM5:Sept 70:1697:7516
Consolidation at Constant Rate of Strain, Anwar E.Z. Wissa, John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
Consolidation of a Layer Under a Strip Load, John T. Christian, Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030
Consolidation of Clay and Peat with Variable Properties, Trevor J. Poskitt, SM6:June 71:841:8178
Consolidation of Clay Layer in Two Dimensions, Sivajogi D. Koppula and Norbert R. Morgenstern, SM1:Jan 72:79:8674
Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73:365:9713
Consolidation-Time Relationship for Layered Clays, Yang H. Huang, TN: SM1:Jan 70:371:7022
Constitutive Relations for Inelastic Granular Medium, Jay B. Weidler and Paul R. Paslay, EM4:Aug 70:395:7475
Constructional Deformations in Rockfill Dam, Arthur D. Penman and Andrew Charles, SM2:Feb 73:139:9560
Contact Pressure of a Rigid Circular Foundation, Michael M.K. Ho and R. Lopes, SM3:May 69:791:6554
Controlled Gradient Consolidation Test, John Lowe, III, Ernest Jonas and Vladimir Obrician, SM1:Jan 69:77:6327
Control of Deformation Rates in Soil Testing, Roy E. Olson, Vincent J. McDonald and James N. Sterner, TN: SM1:Jan 71:283:7787
Criteria for Lateral Pressures for Braced Cuts, William J. Armento, PES:72:I-1283
Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793:10057
Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
Cyclic Stress-Strain Characteristics of Clay, Gerald R. Thiers and H. Bolton Seed, SM2:Mar 68:555:5871
Data Reduction from Nonlinear Response Curves, Milos Novak, EM4:Aug 71:1187:8300
Decision Theory Applied to Settlement Predictions, Joseph I. Folayan, Kaare Hoeg and Jack R. Benjamin, SM4:July 70:1127:7390
Deflections of Shallow Pier Foundations, Donald C. Slack and John N. Walker, SM4:July 70:1143:7391
Deformation and Stability of Viscoelastic Soil Media, Cetin Soydemir and Werner E. Schmid, SM6:Nov 70:2081:7708

Deformation Characteristics of Sands Under Cyclic Loading, Marshall L. Silver and H. Bolton Seed, SM8:Aug 71:1081:8334

Deformation of Sand in Shear, Hon-Yim Ko and Ronald F. Scott, SM5:Sept 67:283:5470

Densification and Shear of Sand During Vibration, T. Leslie Youd, SM3:May 70:863:7272

Density Of Adsorbed Water At Plastic Limit, Edward J. Doheny and A. Alexander Fungaroli, TN: SM5:May 72:523:8865

Density Studies of Cohesive Trench Backfills, Van A. Silver, Henry M. Reitz and Richard C. Huning, TN: SM2:Mar 70:789:7117

Depth Prediction For Earth-Penetrating Projectiles, C. Wayne Young, SM3:May 69:803:6558

Design and Testing of Cone and Hypar Footings, Robert L. Nicholls and Mohammad V. Izadi, SM1: Jan 68:47:5732

Design Construction and Performance of Cellular Cofferdams, Yves Lacroix, Melvin I. Esrig and Ulrich Luscher, LS:70:271

Design Of Earth Retaining Structures For Dynamic Loads, H. Bolton Seed and Robert V. Whitman, LS:70:103

Design Procedures for Dynamically Loaded Foundations, R. V. Richard, SM6:Nov 67:169:5569

Development of Failure Around Excavated Slopes, Peter Dunlop and James M. Duncan, SM2:Mar 70: 471:7162

Difficult Excavation at Carley Porter Tunnel, Paul J. Varello, CE:June 70:66

Distribution of Wind Loads to Soils, State-of-Art Report 2, Salvatore V. DeSimone, TB:73:Ia-11-881

Drained Liquefaction Testing in Simple Shear, Dennison J. Pickering, TN: SM12:Dec 73:1179: 10189

Drained Strength Characteristics of Sands, Kenneth L. Lee and H. Bolton Seed, SM6:Nov 67:117:5561

Duplication of Dilatancy in Analysis of Jointed Rocks, Richard E. Goodman and Jacques Dubois, SM4:Apr 72:399:8853

Dynamic Cone and Standard Penetration Test in Silty Sands (In Spanish), Ricardo Dobry, 4PCSM: 71:II1

Dynamic LoadingP, Elio E. D'Appolonia, PISST:71: 141

Dynamic Loadings, Elio E. D'Appolonia, SM1:Jan 70:49:7010

Dynamic Moduli and Damping Ratios For Soft Clay, William D. Kovacs, H. Bolton Seed and Clarence K. Chan, SM1:Jan 71:59:7813

Dynamic Prestraining of Dry Sand, Vincent P. Drnevich and Frank E. Richart, Jr., SM2:Mar 70: 453:7160

Dynamic Response of Embedded Machine Foundations, Kenneth H. Stokoe, II and Frank E. Richart, Jr., GT4:Apr 74:427:10499

Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72: 1005:9363

Dynamic Shearing Resistance of Dry Ottawa Sand, Kenan Atakol and H. Gordon Larew, SM2:Mar 70: 705:7186

Dynamic Strip Load On Elastic-Plastic Soil, Kaare Hoeg and H. A. Balakrishna Rao, SM2:Mar 70:429: 7138

A Dynamic Structure-Soil-Wave Model For Deep Water, Billy L. Edge and Paul G. Mayer, CEO-II: 70:13

Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, SM12:Dec 73:1153:10237

Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383: 8399

Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Effective Stress Principle in Saturated Clay, H. E. Evans and Roland W. Lewis, SM2:Mar 70:671: 7183

Effect of Mica on K_0 Compressibility of Two Soils, Charles A. Moore, SM9:Sept 71:1275:8401

Effect of Particle Characteristics on Soil Strength, Robert M. Koerner, SM4:July 70:1221:7393

Effect of Sampling on Compressibility of Soft Clay, Iraj Noorany and Iraj Poormand, TN: SM12:Dec 73:1184:10189

Effect of Seepage Stream on Artificial Soil Freezing, Hadi T. Hashemi and Cedomir M. Sliepcevich, SM3:Mar 73:267:9630

Effect of Seismic Loading on Undrained Clay Creep, Thomas L. Holzer and Kaare Hoeg, TN: SM1:Jan 73:283:9505

Effect of Strain History on Liquefaction of Sand, W. D. Liam Finn, Peter L. Bransby and Dennison J. Pickering, SM6:Nov 70:1917:7670

Effect of Tension on Stability of Embankments, Eric Spencer, SM5:Sept 68:1159:6127

Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999

Effects of Foundation Construction on Nearby Structures, David J. D'Appolonia, 4PCSM:71:I189

Effects of Loading Method on Triaxial Test Results, Raymond Lundgren, James K. Mitchell and James H. Wilson, SM2:Mar 68:407:5844

Effects of Vibroflotation on Clayey Sands, Desmond L. Webb and R. Ian Hall, SM6:Nov 69:1365:6882

Effects of Vibroflotation on Clayey Sands, Desmond L. Webb and R. Ian Hall, PISST:71:393

Elastic Analysis for Behavior of Rockfill, Neville O. Boughton, SM5:Sept 70:1715:7532

Elastic Analysis of Zoned Orthotropic Continua, Geoffrey R. Tomlin and Roy Butterfield, EM3:June 74:511:10604

Elastic Behavior of Cohesionless Soil, Igor Holubec, SM6:Nov 68:1215:6216

Elastic Behavior of Sand, Mohamed A. El-Sohby, SM6:Nov 69:1393:6916

Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72: 1325:9417

Electrical Dispersion in Relation to Soil Structure, James K. Mitchell and Kandiah Arulanandan, SM2: Mar 68:447:5853

Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235

Electric Penetrometer For Site Investigations, Jacobus de Ruiter, SM2:Feb 71:457:7907

Embankment Construction On Yielding Sea Bottom, Aris C. Stamatopoulos and Panaghiotis C. Kotzias, SM7:July 72:727:9066

Embankment Pore Pressures During Construction, Walter C. Sherman, Jr. and Gerald W. Clough, SM2:Mar 68:527:5867

Empirical Damping Constants for Sands and Clays, Harry M. Coyle and Gary C. Gibson, SM3:May 70:949:7296

End Bearing and Skin Friction Resistance of Piles, Bengt B. Broms and Lars Hellman, SM2:Mar 68: 421:5846

Engineering Behavior and Structure of Compacted Clay, Laing Barden and Geoffrey R. Sides, SM4: July 70:1171:7397

Engineering Computer Program Documentation Standards, G. Andrew Reti, Chmn., SM3:Mar 73: 249:9614

Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72: 361:8840

Engineering Properties of Mine Tailings, Howard C. Pettibone and C. Daniel Kealy, SM9:Sept 71:1207: 8382

Engineering Properties of Sea Floor Sediments from La Jolla Canyon, Iraj Noorany and Robert A. Zinser, CE13:72:II-1559

Engineering Properties of Submarine Soils: State-of-the Art Review, Iraj Noorany and Stanley F. Gizienski, SM5:Sept 70:1735:7536

Estimation of Climatic Parameters for Frost Depth Prediction, Lyle K. Moulton and James H. Schaub, TE4:Nov 69:605:6872

Estimation of Pavement Surface Freezing Indices, Lyle K. Moulton and James H. Schaub, TE4:Nov 69:587:6871

Euler Beams on a Two Parameter Foundation Model, Milton E. Harr, John L. Davidson, Da-Min Ho, Luis E. Pombo, S. V. Ramaswamy and John C. Rosner, SM4:July 69:933:6651

Evaluation of Pore Pressures Beneath and Embankment, David J. D'Appolonia, T. William Lambe and Harry G. Poulos, SM6:June 71:881:8213

Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672

Evaluation of Quick Test For Lime Stabilization, Marshall R. Thompson and James L. Eades, TN: SM2:Mar 70:795:7117

Expansion of Cavities in Infinite Soil Mass, Aleksandar Sedmak Vesic, SM3:Mar 72:265:8790

Expansion of Cylindrical Probes in Cohesive Soils, Francois Baguelin, Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129:9377

Expansive Soils -- the Hidden Disaster, D. Earl Jones, Jr. and Wesley G. Holtz, CE:Aug 73:49

Extension Tests on Soft Clays Without Membranes, T. S. Ramanatha Iyer, TN: SM6:June 73:486:9815

Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980

Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731

Failure of Underwater Slope in San Francisco Bay, James M. Duncan and Albert L. Buchignani, SM9: Sept 73:687:10019

Field Consolidation of High Ash Papermill Sludge, Robert P. Vallee and Orlando B. Andersland, GT3: Mar 74:309:10431

Field Solutions for Turbulent Seepage Flow, Alan K. Parkin, SM1:Jan 71:209:7794

Field Studies of Response of Peat to Plate Loading, J. B. Forrest and I. C. MacFarlane, SM4:July 69:949:6652

Financial Tools for a Geotechnical Consulting Firm, Roy T. Sheehey, 4PCSM:71:II345

Finite Dynamic Model for Infinite Media, John Lysmer and Roger L. Kuhlemeyer, EM4:Aug 69:859:6719

Finite Element Analyses of Port Allen Lock, James M. Duncan and Gerald W. Clough, SM8:Aug 71:1053:8317

Finite Element Analyses of Retaining Wall Behavior, Gerald W. Clough and James M. Duncan, SM12: Dec 71:1657:8583

Finite-Element Analysis of Seepage in Elastic Media, Ranbir S. Sandhu and Edward L. Wilson, EM3: June 69:641:6615

Finite-Element Analysis of Seepage Through Dams, W. D. Liam Finn, SM6:Nov 67:41:5552

Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650

Finite Element Method Accuracy for Wave Propagation Problems, Roger L. Kuhlemeyer and John Lysmer, TN: SM5:May 73:421:9703

Finite Element Method Applied to Some Problems in Soil Mechanics, Chiyyarath V. Girijavallabhan and Lymon C. Reese, SM2:Mar 68:473:5864

Finite Element Methods for the Nonlinear and Time-Dependent Analysis of Geotechnical Problems, Chin-Yung Chang, Keshavan Nair and Ram D. Singh, GT74:June 74:269

Flow of Air Through Soils, Geoffrey E. Blight, SM4: Apr 71:607:8026

Flow Through Rockfill Dam, Horace A. Johnson, SM2:Feb 71:329:7914

Foundation Compliance Effects on Earthquake Response Spectra, Alberto Castellani, SM4:July 70:1335:7425

Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026

Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273

Foundation Precompression With Vertical Sand Drains, Stanley J. Johnson, SM1:Jan 70:145:7019

Foundation Precompression with Vertical Sand Drains, Stanley J. Johnson, PISST:71:9

Foundation Study for Materials Test Structure, Melvin C. Hironaka and Raymond J. Smith, SM6: Nov 69:1431:6921

Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274

General Slope Stability Analysis, James M. Bell, SM6:Nov 68:1253:6222

General Stress-Strain-Time Function for Soils, Awtar Singh and James K. Mitchell, SM1:Jan 68:21:5728

Geotechnical Considerations Of Lateral Stresses, David J. Henkel, LS:70:1

Geotechnical Properties of Hudson River Silts, Surendra K. Saxena and Timothy P. Smirnoff, TN: SM10:Oct 73:912:10042

The Gloucester Test Fill, Michael Bozozuk and Gerald A. Leonards, PES:72:I-299

Graphical Stability Analysis of Slopes in Jointed Rock, Klaus W. John, SM2:Mar 68:497:5865

Grout Hole Orientation-Mathematical Solution, J. S. Singhota, SM4:July 69:995:6660

Guide for Depth of Foundation Exploration, Ronald E. Smith, SM2:Mar 70:377:7120

Guidelines for Compaction Control of Fill, Raymond J. Frost, TN: SM12:Dec 73:1189:10189

Guide Specifications for Chemical Grouts, W. K. Seaman, SM2:Mar 68:345:5830

Heave and Lateral Movements Due to Pile Driving, D. Joseph Hagerty and Ralph B. Peck, SM11:Nov 71:1513:8497

High Fills Resting on Residual Soils (in Spanish), Christian K. De Fries and Edgar Pardo Stolk, 4PCSM:71:II153

Horizontal Movements Related to Subsidence, Kenneth L. Lee and Chih-Kang P. Shen, SM1:Jan 69:139:6336

Hydraulic Fills to Support Structural Loads, Robert V. Whitman, SM1:Jan 70:23:7009

Hydraulic Fills to Support Structural Loads, Robert V. Whitman, PISST:71:169

Impedance Effects On Unsaturated Flow In A Non-Swelling Soil, Hong Yau Wong and Raymond N. Yong, TN: SM8:Aug 72:837:9085

Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708

Impulsive Load Stiffness of Flexible Pavements, Nelson M. Isada, SM2:Mar 70:639:7176

Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10: Oct 71:1431:8451

An Induced Failure at a Trial Embankment At King's Lynn, Norfolk, England, P. F. Wilkes, PES: 72:I-29

An Induced Failure at a Trial Embankment: Part II Finite Element Computations, C. P. Wroth and B. Simpson, PES:72:I-65

Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50

Inflection Point Method for Computing Cv, Francis R. Cour, TN: SM5:May 71:827:8087

Influence of Progressive Failure On Slope Stabilities, Fredy Romani, Charles William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349

Influence of Soil Conditions on Building Damage Potential During Earthquakes, H. Bolton Seed and Izzat M. Idriss, ST2:Feb 71:639:7909

Initial Settlement of Structures on Clay, David J. D'Appolonia, Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438

In-Place Ocean Soil Strength By Accelerometer, Ronald F. Scott, SM1:Jan 70:199:7013

In-place Treatment of Foundation Soils, James K. Mitchell, SM1:Jan 70:73:7035

In-Place Treatment of Foundation Soils, James K. Mitchell, PISST:71:93

In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72:899:9202

In-Situ Investigation Using SH-Waves, Marcis Kurzeme, SM2:Feb 71:341:7918

In-Situ Measurement Of Soil Creep, R. A. Lohnes, Alvaro Millan and Richard L. Handy, TN: SM1: Jan 72:143:8618
In Situ Shear Wave Velocity by Cross-Hole Method, Kenneth H. Stokoe, II and Richard D. Woods, SM5:May 72:443:8904
In Situ Strength of Rolled and Hydraulic Fill, Geoffrey E. Blight, SM3:May 70:881:7273
Insulated and Improved Sub-grades for Eliminating Frost Heave, Edward P. Keiner, Jr., CE:Feb 69:38
The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
Interactive Graphics: Settlement and Slope Stability, Robert L. Schiffman and Jack R. Stein, ST1:Jan 71: 253:7832
Interactive Graphics: Settlement & Slope Stability, Robert L. Schiffman and Jack R. Stein, EC5:70:407
An Interesting Case of Stability in a Rock Fill Slope, Carlos M. Nieble and Paulo T. Cruz, 4PCSM:71: II167
International Abstracts Section, Joseph M. DeSalvo, Chmn., SM3:May 70:1091:7294
International Abstracts Section, Joseph M. DeSalvo, Chmn., SM4:July 70:1505:7428
International Abstracts Section, Joseph M. DeSalvo, Chmn., SM6:Nov 70:2197:7665
International Abstracts Section, Committee on Information Retrieval, Joseph M. DeSalvo, Chmn., SA8:Aug 71:1145:8341
International Abstracts Selection, Committee on Information Retrieval, Joseph M. DeSalvo, Chmn., SM1:Jan 71:313:7848
Investigation of Spherical Shell Foundation, A. K. Sharma, TN: SM6:June 73:489:9815
Keynote Address: The Performance of Earth Structures and Foundations, T. William Lambe, 4PCSM:72:III7
Khazzan Dubai No. 1: Pile Design and Installation, James A. Wees and Robert S. Chamberlin, SM10: Oct 71:1415:8439
Kimbley Pit Slope Failure, James V. Hamel, 4PCSM: 71:II117
Landslides in Weathered Volcanics in Puerto Rico, George F. Sowers, 4PCSM:71:II105
La Protection des Plages du Littoral du Lac Saint-Jean, Richard Bolvin and Yvon Cousineau, CE13: 72:II-1485
Lateral and Rocking Vibration of Footings, Anestis S. Veletsos and Yau T. Wei, SM9:Sept 71:1227:8388
Lateral Load Tests on Piles-Arkansas River Project, Mahmood M. Alizadeh and Melvin T. Davisson, SM5:Sept 70:1583:7510
Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360
Lateral Pressures On Rigid Permanent Structures, James P. Gould, LS:70:219
Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
Limit Analysis of Plane Problems in Soil Mechanics, John Lysmer, SM4:July 70:1311:7416
Limit Analysis Of Stability Of Slopes, Wai F. Chen and Max W. Giger, SM1:Jan 71:19:7828
Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133
Liquid Limit Values by Soil Moisture Tension, Eugene R. Russell and L. Jack Mickle, SM3:May 70:967:7298
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
Load Transfer in Earth and Rockfill Dams, L. Radley Squier, SM1:Jan 70:213:7004
Long-term Pressures Effects on Shear Modulus of Soils, Sherif S. Afifi, SM10:Oct 71:1445:8475
Low Velocity Penetration of Kaolin Clay, James D. Murff and Harry M. Coyle, SM5:May 73:375:9737
Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592
Material Model for Granular Soils, Frank L. DiMaggio and Ivan S. Sandler, EM3:June 71:935: 8212
Mean Pore Sizes from Flow Measurements, Richard P. Long and Thomas F. Zimmie, TN: SM7:July 73: 583:9865
Measured Performance of Braced Excavation, T. William Lambe, L. Anthony Wolfskill and Ing H. Wong, SM3:May 70:817:7307
Mechanical Properties of a Sand-Ice System, Roy R. Goughnour and Orlando B. Andersland, SM4:July 68:923:6030
Mechanical Properties of a Sand-Ice System, Roy R. Goughnour and Orlando B. Andersland, PISST:71: 287
Mechanisms Controlling Compressibility of Clays, Roy E. Olson and Gholamreza Mesri, SM6:Nov 70:1863:7649
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240
Method for Predicting Initial Settlement, David J. D'Appolonia and T. William Lambe, SM2:Mar 70: 523:7167
A Method for Specifying Percentage Soil Compaction, Edward J. Monahan, CE:May 74:82
Methods of Estimating Lateral Loads And Deformations, Norbert R. Morgenstern and Zdenek Eisenstein, LS:70:51
Mine Grouting to Control Building Settlement, Charles I. Mansur and Marion C. Skouby, SM2: Mar 70:511:7166
Mine Subsidence and Support Methods in Pittsburgh Area, Richard E. Gray and James F. Meyers, SM4: July 70:1267:7407
Mixing-in-Place Soil and Portland Cement, James L. Sherard, SM6:Nov 69:1357:6909
Model for Machine-pile Foundation-soil System, Madhira Radha Madhav and N. S.V. Kameswara Rao, TN: SM1:Jan 71:295:7787
A Model for the Mechanics of JointedRock, Richard E. Goodman, Robert L. Taylor and Tor L. Brekke, SM3:May 68:637:5937
Model Investigations of Pile Groups in Sand, Andrzej F. Tejchman, SM2:Feb 73:199:9579
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
Model Study of Laterally Loaded Piles, Melvin T. Davisson and James R. Salley, SM5:Sept 70:1605: 7511
Model Study on Arching Above Buried Structures, Zvi Getzler, Amos Komornik and Ami Mazurik, SM5:Sept 68:1123:6105
Mohr-Coulomb Strength Theory for Anisotropic Soils, Wallace H. Baker and Raymond J. Krizek, SM1:Jan 70:269:7015
The Nature of Lunar Soil, W. David Carrier, III, James K. Mitchell and Arshud Mahmood, SM10: Oct 73:813:10099
New Approach to Multistage Triaxial Test, Asuri Sridharan and Savaram Narasimha Rao, TN: SM11: Nov 72:1279:9312
Nomograph for Bearing Capacity, J. Neil Kay, TN: SM1:Jan 71:301:7787
Noncircular Sliding Surfaces, James M. Bell, SM3: May 69:829:6567
Nonlinear Analysis of Stress and Strain in Soils, James M. Duncan and Chin-Yung Chang, SM5: Sept 70:1629:7513
Nonlinear Analysis Using Spline Functions, Chandrakant S. Desai, SM10:Oct 71:1461:8462
Nonlinear Parameters of Vibrating Foundations, O.M. Christof Ehrler, SM6:Nov 68:1199:6208
Nonlinear Pore Pressure Equation, Jerru C.F. Chen, TN: SM6:June 72:649:8933
Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73: 603:9912
Numerical Analysis of Flexible Retaining Structures, T. Allan Haliburton, SM6:Nov 68:1233:6221
Observational Data on Ground Movements Related to Slope Instability, Stanley D. Wilson, SM5:Sept 70:1519:7508
One Dimensional Consolidation in Triaxial Cell, Adel S. Saada, TN: SM3:May 70:1085:7253
One-Dimensional Consolidation Of Layered Systems, Robert L. Schiffman and Jack R. Stein, TN: SM4: July 70:1499:7387

On The Standard Penetration Test in Test Borings (In Spanish), A. D. Ferraz Napoles Neto, 4PCSM:71:II85
Oxidation and Heave of Black Shale, Robert M. Quigley, James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703
Particle Size Distribution of Soils, J. Macneil Turnbull, TN: SM6:Nov 70:2171:7646
Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221
Performance of Embankments Constructed Over Peat, William G. Weber, Jr., SM1:Jan 69:53:6333
Performance of Foundation for Altair Radar, Robert V. Whitman, Dirk R. Casagrande, Kjell Karlsrud and Richard M. Simon, SM1:Jan 71:1:7809
Performance of Four Foundations on End Bearing Piles, David J. D'Appolonia and T. William Lambe, SM1:Jan 71:77:7807
Permeability of Cohesionless Soils, Abdelwahab M. Amer and Amin A. Awad, TN: GT12:Dec 74:1309:10981
Phreatic Surface Location after Drawdown, Arthur H. Dvinoff and Milton E. Harr, SM1:Jan 71:47:7806
Pile-Driving Formulas For Friction Piles in Sand, Roy E. Olson and Kaare S. Flaate, SM6:Nov 67:279:5604
Pile Stability, Part 2 -- Non-Elastic Soil, Peter J. Hoadley, GT74:June 74:245
Pile Tests-Arkansas River Project, Charles I. Mansur and Alfred H. Hunter, SM5:Sept 70:1545:7509
Plane Strain Consolidation by Finite Elements, John T. Christian and Jan Willem Boehmer, SM4:July 70:1435:7437
Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579:8947
Pore Pressure in Saturated Stiff Soils, Anwar E.Z. Wissa, SM4:July 69:1063:6670
Pore Pressures, Consolidation, and Electrokinetics, Melvin I. Esrig, PISST:71:263
Pore Pressures Under a Bund of Soft Fissured Clay, Za-Chieh Moh, Edward W. Brand and John D. Nelson, PES:72:I-243
Pore Size Distribution Studies, Asuri Sridharan, Adolph G. Altschaeffl and Sidney Diamond, SM5:May 71:771:8151
Potrero Hill Slide and Correction, Travis Smith and Raymond H. Forsyth, SM3:Mar 71:541:8004
The Practice of Foundation Engineering in the Commonwealth of Puerto Rico, Efrahim Murati, 4PCSM:71:II391
Precompression for Improving Foundation Soils, Stanley J. Johnson, SM1:Jan 70:111:7020
Precompression for Improving Foundation Soils, Stanley J. Johnson, PISST:71:53
Predicted Performance of a Braced Excavation, Hugh Q. Golder, James P. Gould, T. William Lambe, Gregory P. Tschebotarioff and Stanley D. Wilson, SM3:May 70:801:7292
Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077
Predicting Effective Stress Paths, James P. Olson and Harvey E. Wahls, TN: SM8:Aug 71:1139:8307
Prediction Method for Projectile Penetration, James D. Murff and Harry M. Goyle, TN: SM11:Nov 73:1033:10/48
Prediction of Footing Vibrations, Milos Novak, SM3:May 70:837:7268
Prediction of Swelling Pressure of Clays, Amos Komornik and D. David, SM1:Jan 69:209:6358
Preloading for Heavy Industrial Installations, Panaghiotis C. Kotzias and Aris C. Stamatopoulos, SM6:Nov 69:1335:6902
Pressure-Meter Field Testing of Soils, Max L. Calhoon, CE:July 69:71
Probabilistic Analysis and Design of a Retained Wall, Kaare Hoeg and Ramesh P. Murarka, GT3:Mar 74:349:10436
Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687
Process Control Computers For Educational Exercises, Charles A. Moore, TN: SM5:May 72:517:8865
Progressive Failure in Slopes of Overconsolidated Plastic Clay and Clay Shales, Laurits Bjerrum, SM5:Sept 67:1:5456
Properties of Compacted Sewage Ash, Donald H. Gray, SM2:Mar 70:439:7149
Property Interrelationships in Sensitive Clays, William N. Houston and James K. Mitchell, SM4:July 69:1037:6666
Random Walk Model of Ideal Granular Mass, Edward Hamilton Fletcher, SM10:Oct 71:1379:8444
Rapid Determination of Plasticity Index, Roland A. Pettitt, CE:May 71:74
Recent Developments in Grouting for Deep Mines, Alfred C. Ackenheil and Murray T. Dougherty, SM1:Jan 70:251:7042
Reclaimed Land in Kawasaki City, Japan, T. William Lambe, SM5:Sept 69:1181:6780
Recoverable Deformation Of Cohesionless Soils, Max D. Coon and Roger J. Evans, S&M2:Feb 71:375:7911
Rectangular Loads on Inhomogeneous Elastic Soil, Peter T. Brown and Robert E. Gibson, TN: SM10:Oct 73:917:10042
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068
Relative Density and Relative Compaction, Kenneth L. Lee and Awtar Singh, TN: SM7:July 71:1049:8264
Remote Measurement of Radial Deformations, John H. Dudley, TN: SM6:June 71:965:8162
Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35
Residual Shear Strength, Peter Smart, TN: SM6:Nov 70:2181:7646
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023
Response of Buried Cylinders Encased in Foam, Carl J. Costantino and Eben Vey, SM5:Sept 69:1159:6769
Response of Nonuniform Soil Deposits to Traveling Seismic Waves, Houshang Dezfulian and H. Bolton Seed, SM1:Jan 71:27:7808
Responses of Earth Dams to Traveling Seismic Waves, Mostafa Dibaj and Joseph Penzien, SM2:Mar 69:541:6453
Review of Collapsing Soils, John H. Dudley, SM3:May 70:925:7278
Review of Shearing Strength of Rockfill, Thomas M. Leps, SM4:July 70:1159:7394
Road Responses to Vibration Tests, Michael E. Szendrei and Charles R. Freeme, SM6:Nov 70:2099:7709
Rock Fracture Spacings, Openings, and Porosities, David T. Snow, SM1:Jan 68:73:5736
Safety Analysis of Slopes, Tien H. Wu and Leland M. Kraft, Jr., SM2:Mar 70:609:7174
Sand Compaction with Vibratory Rollers, David J. D'Appolonia, Robert V. Whitman and Elio E. D'Appolonia, SM1:Jan 69:263:6366
Sand Densification by Heavy Vibratory Compactor, Douglas C. Moorhouse and Gerald L. Baker, SM4:July 69:985:6656
Sand Densification by Heavy Vibratory Compactor, Douglas C. Moorhouse and Gerald L. Baker, PISST:71:379
Sand Densification by Piles and Vibroflotation, Carl E. Basore and Joseph D. Boitano, SM6:Nov 69:1303:6892
Sand Densification by Piles and Vibroflotation, Carl E. Basore and Joseph D. Boitano, PISST:71:203
Sand Liquefaction In Triaxial and Simple Shear Tests, W. D. Liam Finn, Dennison J. Pickering and Peter L. Bransby, SM4:Apr 71:639:8039
Sand Liquefaction Under Cyclic Loading Simple Shear Conditions, William H. Peacock and H. Bolton Seed, SM3:May 68:689:5957
Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73:75:9484

Scale and Boundary Effects in Foundation Analysis, James Graham and John Gordon Stuart, SM11:Nov 71:1533:8510

Seasonal Deformation of 2-Mile Straight Line, Joseph J. Spranza and Amos M. Nur, SM12:Dec 71:1623:8586

Secondary Consolidation and Strength of a Clay, Chih-Kang P. Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510

Seed Wins Terzaghi Award, CE:Mar 73:59

Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334

Seepage Characteristics of Imperfect Cutoffs, Francis G. McLean and Raymond J. Krizek, TN: SM1:Jan 71:305:7787

Seepage Through Dams with Horizontal Toe Drain, Mohammad S. Moayeri, SM5:May 72:461:8878

Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10: Oct 73:849:10053

Seismic Effects on Earth Dam from Explosion, Lyman W. Heller, TN: SM11:Nov 73:1038:10148

Seismic Failures of Chilean Tailings Dams, Ricardo Dobry and Leonardo Alvarez, SM6:Nov 67:237:5582

Seismic Response of Horizontal Soil Layers, Izzat M. Idriss and H. Bolton Seed, SM4:July 68:1003:6043

Seismic Response of Single-Story Interaction Systems, David S. Perelman, Richard A. Parmelee and Seng-Lip Lee, ST11:Nov 68:2597:6235

Seismic Response of Soil Deposits, Izzat M. Idriss and H. Bolton Seed, SM2:Mar 70:631:7175

Seismic Response of Soil Deposits Underlain by Sloping Rock Boundaries, Houshang Dezfulian and H. Bolton Seed, SM6:Nov 70:1893:7659

Seismic Safety of Earth Dams, Tien H. Wu and Leland M. Kraft, Jr., SM6:Nov 70:1987:7686

Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, GT2:Feb 74: 139:10360

Selection of Chemical Grout for Mattmark Dam, Herbert H. Einstein and Gerold Schnitter, SM6: Nov 70:2007:7684

Settlement of Building on Deep Compressible Soil, Peter J. Moore and Graham K. Spencer, SM3:May 69:769:6547

Settlement of Building on Pile Foundation in Sand, Robert M. Koerner and Antal Partos, GT3:Mar 74: 265:10405

Settlement of Buildings Constructed in Hackensack Meadows, Herbert L. Lobdell, SM4:July 70:1235: 7398

Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72: 381:8844

Settlement of Embankment on Layer of Soil, Jean-Pierre Giroud and Andre Rabatel, TN: SM1:Jan 71: 287:7787

Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090

Settlement Of Rectangular Foundation On Soil Layer, Jean-Pierre Giroud, TN: SM1:Jan 72:149: 8618

Settlement of Spread Footings on Sand, David J. D'Appolonia, Elio E. D'Appolonia and Richard F. Brissette, SM3:May 68:735:5959

Settlement of Strip Load On Elastic-Plastic Soil, Kaare Hoeg, John T. Christian and Robert V. Whitman, SM2:Mar 68:431:5850

Settlement Problem Oriented Computer Language, Robert L. Schiffman, Robert V. Whitman and Jane C. Jordan, SM2:Mar 70:649:7178

Settlements Near Excavations (In Spanish), Jesus Alberro A., 4PCSM:71:II211

Settlements of Steel Tanks Founded on Clays (In Spanish), O. A. Varde, E. Nunez, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II179

Shape Factors In Bearing Capacity Equation, Leslie L. Karafiath, TN: SM4:July 70:1493:7387

Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977

Shear Strength and Stability of Man-Made Slopes, Awtar Singh, SM6:Nov 70:1879:7652

Shear Strength of Homestake Slimes Tailings, James V. Hamel and James W. Gunderson, TN: SM5:May 73:427:9703

Shear Strength Of Sand At Extremely Low Pressures, V. Miguel Ponce and James M. Bell, SM4:Apr 71: 625:8062

Sheet-Pile Analysis by Distribution Theory, Dafalla A. Turabi and Arpad Balla, SM1:Jan 68:291:5769

Sheet Pile Design with Variable Soil Parameters, William D. Kovacs, James H. Martin and Frank A. Gerig, TN: ST2:Feb 74:200:10310

Shihmen Embankment Dam in Taiwan, China, Shen C. Yuan, Paul E. Bartlett and Chuan C. Feng, IR2: June 67:1:5257

The Significance of Cap and Base Restraint, James M. Duncan and Peter Dunlop, SM1:Jan 68:271: 5768

Simplified Procedure for Evaluating Soil Liquefaction Potential, H. Bolton Seed and Izzat M. Idriss, SM9: Sept 71:1249:8371

Skin Friction For Steel Piles in Sand, Harry M. Coyle and Ibrahim H. Sulaiman, SM6:Nov 67:261: 5590

Slides in Residual Soils From Shale and Limestone, Harold T. Whitney, George F. Sowers and B. Roger Carter, 4PCSM:71:II139

Sliding-Rocking Vibration Of Body On Elastic Medium, Robert T. Ratay, SM1:Jan 71:177:7849

Slopes in Stiff-Fissured Clays and Shales, James M. Duncan and Peter Dunlop, SM2:Mar 69:467:6449

Slope Stability in Residual Soils, Don U. Deere and F. D. Patton, 4PCSM:71:I87

Slurry Wall Construction for BART Civic Center Subway Station, J. George Thon and Richard C. Harlan, SM9:Sept 71:1317:8361

Soil Arching in Slopes, Wen L. Wang and Bing C. Yen, GT1:Jan 74:61:10300

Soil Conditions and Building Damage in 1967 Caracas Earthquake, H. Bolton Seed, Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108

Soil Indentation by Translating Flanged Plate, Jack L. Dais, EM4:Aug 71:1057:8285

Soil Mechanics and Theorems of Limit Analysis, Wai F. Chen, SM2:Mar 69:493:6450

Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273

Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511

Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220

Soil-Structure Interaction for Tall Buildings, State-of-Art Report 5, John T. Christian, TB:73:Ia-11-967

Soil-Structure Systems, Akbar R. Tamboli, TB:73:Ib-6-318

Soil Vertical Stress Influence Charts for Rectangles, Alfreds R. Jumikis, TN: SM2:Feb 71:521:7860

Stability Analysis of Embankments, John Lowe, III, SM4:July 67:33:5305

Stability and Performance of Slopes and Embankments (Book Review), Jack W. Hilf, CE: Aug 70:90

Stability of Cellular Cofferdams Against Vertical Shear, Melvin I. Esrig, SM6:Nov 70:1853:7654

Stability of Rock Slopes-Graphical Methods, Pierre Londe, Gaston Vigier and Raymond Vormeringer, SM4:July 70:1411:7435

Stability of Slopes Undergoing Creep Deformation, Bing C. Yen, SM4:July 69:1075:6675

Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82

Standardization of Particle-Size Ranges, Charles C. Ladd, SM5:Sept 69:1247:6795

The Standard Penetration Test, Victor F. B. de Mello, 4PCSM:71:I1

Standard Penetration Test and Relative Density, Klaus-Jurgen Melzer, 4PCSM:71:II37

Standard Penetration Test for Sand Denseness, Harold J. Gibbs, 4PCSM:71:II27

Standard Penetration Tests in Collapsible Soils, Aldo R. Reginatto, 4PCSM:71:II77

Standard Test Boring with Drilling Mud, Charles S. Hedges, 4PCSM:71:II63
State of Predictive Art in Subsidence Engineering, Barry Voight and William G. Pariseau, SM2:Mar 70:721:7187
Static Cone to Compute Static Settlement Over Sand, James K. Mitchell, SM3:May 70:1011:7302
Stiffened Mats on Expansive Clay, Robert L. Lytton and Kirby T. Meyer, SM7:July 71:999:8265
Strain Conditions in Compression Cylinder, William M. Kirkpatrick and J. Scott Younger, SM5:Sept 70:1683:7504
Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225
Strengthening Rock by Injection of Chemical Grout, Herbert B. Erickson, SM1:Jan 68:159:5744
Strength of a Model of Jointed Rock, Edwin T. Brown and David H. Trollope, SM2:Mar 70:685:7185
Strength of Anisotropically Consolidated Compacted Clay, Kenneth L. Lee and Ross A. Morrison, SM6:Nov 70:2025:7703
Strength of Models of Rock with Intermittent Joints, Edwin T. Brown, SM6:Nov 70:1935:7697
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332
Stress Analysis of Contractive or Dilative Soil, Ian M. Smith and Stephen Kay, SM7:July 71:981:8263
Stress Conditions In NGI Simple Shear Test, A. Stanley Lucks, John T. Christian, Gregg E. Brandow and Kaare Hoeg, TN: SM1:Jan 72:155:8618
Stress-Controlled Apparatus for Triaxial Testing, Adel S. Saada, SM6:Nov 67:61:5555
Stresses Against Underground Structural Cylinders, Kaare Hoeg, SM4:July 68:833:6022
Stresses and Displacements in Nonlinear Soil Media, Yang H. Huang, SM1:Jan 68:1:5714
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653:9016
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858
Stresses at Different Depths Below Loaded Area, N. S.V. Kameswara Rao and M. R. Maohav, TN: SM2:Mar 70:779:7117
Stresses Due to Strip Loads on Incompressible Soil, Robin N. Chowdhury and George J.W. King, TN: SM12:Dec 72:1433:9399
Stresses in Restrained Cylinder Under Axial Compression, Chiyyarath V. Girijavallabhan, TN: SM2:Mar 70:783:7117
Stresses Under Linearly Loaded Rectangular Area, Jean-Pierre Giroud, SM1:Jan 70:263:7040
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72:13:8625
Stress Path Method, T. William Lambe, ST6:Nov 67:309:5613
Stress-Strain Properties of Compacted Clays, David E. Daniel and Roy E. Olson, GT10:Oct 74:1123:10869
Structural Design of Fukushima No. 6 and Tokai No. 2 Nuclear Power Plants, Hsiang-Sheng Chang, SDNPF:Dec 73:391
Structural Ground Concept and Wire Fabric Save Time and Money, Don Gehring, CE:Nov 71:50
Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
Structure-Foundation Interaction of Nuclear Power Plant Structure During Earthquakes, R. Joe Hunt, SDNPF:Dec 73:119
Structures In Soil Under High Loads, Jay R. Allgood, SM3:Mar 71:565:8006
Studies Of Seismic Response Of Clay Banku, William D. Kovacs, H. Bolton Seed and Izzat M. Idriss, SM2:Feb 71:441:7878
A Study of a Slide-prone Clay in Panama, Ralph R. W. Beene, 4PCSM:71:II129
Study of Five Embankment Failures on Soft Soils, Georges Pilot, PES:72:I-81
Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
Subsidence of Sand Due to Surface Vibration, William F. Brumund and Gerald A. Leonards, SM1:Jan 72:27:8648
Technique for Study of Granular Materials, Stephen J. Windisch and Michel Soulie, SM4:July 70:1113:7389
Tensile Strength of Compacted Soils, Jagdish Narain, TN: SM6:Nov 70:2185:7646
Testing of Anisotropic Clay Soils, Adel S. Saada, TN: SM5:Sept 70:1847:7502
Test Procedures for Measuring Soil Liquefaction Characteristics, H. Bolton Seed and William H. Peacock, SM8:Aug 71:1099:8330
Tests on Cohesionless Materials for Rockfill Dams, Emanuele Fumagalli, SM1:Jan 69:313:6353
Tests on Instrumented Piles, Ogeechee River Site, Aleksandar Sedmak Vesic, SM2:Mar 70:561:7170
A Theoretical Assessment of the SPT, Edward A. Nowatzki, 4PCSM:71:II45
Theory of Brittle Fracture Applied to Soil Cement, Kalankamary P. George, SM3:May 70:991:7301
Thixotropic Behavior of Compacted Clays, Donald H. Gray and Nouri A. Kashmeeri, SM1:Jan 71:193:7857
Three-Dimensional Finite Element Analyses of Dams, Guy Lefebvre, James M. Duncan and Edward L. Wilson, SM7:July 73:495:9857
Three Dimensional Soil-Structure Seismic Analysis Using Finite Elements, Surendra Singh, Ramachandran Srinivasan, P. K. Agrawal and Shih-Lung Chu, SDNPF:Dec 73:43
Tie-Backs in Clay to Support Sheeted Excavation, Charles I. Mansur and Mahmood M. Alizadeh, SM2:Mar 70:495:7163
Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Tilting Foundations, Gerd F. Weissmann, SM1:Jan 72:49:8671
Time-Dependent Strength Behavior of Frozen Soils, Orlando B. Andersland and Ilham AlNouri, SM4:July 70:1249:7406
Time Effects on Dynamic Shear Modulus of Clays, William F. Marcuson, III and Harvey E. Wahls, SM12:Dec 72:1359:9442
Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728
Torsional Stiffness of Embedded Footings, Movses J. Kaldjian, SM7:July 71:969:8241
Torsional Vibrations of Circular Foundations, Gerd F. Weissmann, SM9:Sept 71:1293:8402
Triangular Blankets Reduce Earthdam Seepage, Dalim K. Majumdar, TN: SM6:Nov 70:2191:7646
Uncertainty, Safety, and Decision in Soil Engineering, Tien H. Wu, GT3:Mar 74:329:10434
Unconfined Transient Seepage in Sloping Banks, Chandrakant S. Desai and Walter C. Sherman, Jr., SM2:Feb 71:357:7915
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134
Undrained Strength Characteristics of Cohesionless Soils, H. Bolton Seed and Kenneth L. Lee, SM6:Nov 67:333:5618
Undrained Strength of Anisotropically Consolidated Sand, Kenneth L. Lee and H. Bolton Seed, SM2:Mar 70:411:7136
Undrained Strength of Compacted Clay, Kenneth L. Lee and Robert J. Shubeck, SM1:Jan 71:219:7833
Undrained Stress Distribution by Numerical Methods, John T. Christian, SM6:Nov 68:1333:6243
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566
Use of Shotcrete for Tunnelling in Difficult Grounds, Pericle Quadrio Curzio, Glauco Barazzoni, Fiorenzo Nobili and Alessio Anselmi, SUSS:July 73:79
Utilization of Marginal Lands for Urban Development, Philip C. Rutledge, SM1:Jan 70:1:7000

Vertical Stresses Due to Deep Foundations, Abraham Ellstein and Leonard Rapoport, 4PCSM:71:II243

Vertical Vibration of Embedded Footings, Milos Novak and Youpele O. Beredugo, SM12:Dec 72:1291:9412

Vibration Modulus of Normally Consolidated Clay, Bobby O. Hardin and William L. Black, SM2:Mar 68:353:5833

Vibrator for Soil Testing, Gerd F. Weissmann, TN: SM3:Mar 71:601:7962

Vibratory Densification of Damp Clayey Sands, Raymond J. Krizek and Jose I. Fernandez, SM8: Aug 71:1069:8320

Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219

A View of the Practice of Foundation Engineering in the United States, Elio E. D'Appolonia and John C. Regan, 4PCSM:71:II365

Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12: Dec 72:1375:9454

Volume Changes in Sands During Cyclic Loading, Marshall L. Silver and H. Bolton Seed, SM9:Sept 71:1171:8354

Volume Changes in Triaxial and Plane Strain Tests, W. D. Liam Finn, Neil H. Wade and Kenneth L. Lee, SM6:Nov 67:297:5611

Wave Propagation in Confined Clay, Delon Hampton, Peter J. Huck and Ernest T. Selig, SM4: July 70:1391:7434

Yield and Failure of a Clay Under Triaxial Stresses, Raymond N. Yong and Edward McKyes, SM1:Jan 71:159:7790

Soil Moisture

Art of Agricultural Drainage Design and Costs, Ralph L. Toren, IR73:Aug 73:557

Density Of Adsorbed Water At Plastic Limit, Edward J. Doheny and A. Alexander Fungaroli, TN: SM5:May 72:523:8865

Effect of Snow Cover on Upward Movement of Soil Moisture, Eugene L. Peck, IR4:Dec 74:405:10989

Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211

Liquid Limit Values by Soil Moisture Tension, Eugene R. Russell and L. Jack Mickle, SM3:May 70:967:7298

Optimal Irrigation Quantity and Frequency, I-pai Wu and Tung Liang, IR1:Mar 72:117:8776

Optimal Utilization of Playa Water in Irrigation, Marvin J. Dvoracek and Theodore G. Roefs, OIDS: 72:597

Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9: Sept 72:1527:9186

Predicting Irrigation Requirements of Crops, Wilfredo P. David and Edward A. Hiler, IR3:Sept 70:241: 7507

Pump Drainage in Carolina Bays, Coy W. Doty, IR4: Dec 73:465:10244

Review of Expansive Soils, Gerald J. Gromko, GT6: June 74:667:10609

Role of Bedrock in Watershed Management, Walter F. Megahan, IR73:Aug 73:449

Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870

Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659

Water Requirements of Rostered Irrigation Schemes, Patrick D. Fitzgerald and Gregory C. Arnold, IR1: Mar 72:91:8767

Soil Moisture Movement

Lime is not a panacea, Edward D. Graf, CE:July 74: 47

Lime Slurry Pressure Injection Tames Expansive Clays, Paul J. Wright, CE:Oct 73:42

Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9: Sept 72:1527:9186

Soil Physics

One-Dimensional Infiltration into Layered Soils, Yu-Si Fok, IR2:June 70:121:7343

Soil Pressure

Concrete Pipe Culvert Behavior - Part 2, Raymond Eugene Davis and Alfred E. Bacher, ST3:Mar 74: 615:10408

Engineer's Notebook: Effect Of Point Surcharge On Retaining Walls, Fred C. Teitgen and David R. Fiedler, CE:Nov 73:82

New Design Method for Corrugated Steel Pipe, Alma P. Moser and Reynold K. Watkins, CE:June 72:61

Retaining Wall Under Action of Accreted Backfill, Paul P. Christiano and Suradej Chuntranuluck, TN: GT4:Apr 74:471:10454

The Self-Boring Placement Method of Soil Characteristics Measurements, Francois Baguelin, Jean-Francois Jezequel and Alain LeMehaute, EFSE:Aug 74:312

Soil Profiles

Computer Aids Draftsmen in Soil Profiles and Analysis, George Kisak and B. James Greenfield, CE:Feb 71:67

Soil Properties

Art of Agricultural Drainage Design and Costs, Ralph L. Toren, IR73:Aug 73:557

Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77

Corrugated Metal Flumes, Tadaaki Naruse, OIDS:72: 219

Design Method for Vertical Anchor Slabs in Sand, N. Krebs Ovesen and Helle Stromann, PES:72:I-1481

The Development of a Special Instrument for the In Situ Measurement of the Strength and Stiffness of Soils, C. Peter Wroth and John M.O. Hughes, EFSE:Aug 74:295

Dynamic Cone and Standard Penetration Test in Silty Sands (In Spanish), Ricardo Dobry, 4PCSM: 71:II1

Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367: 9751

Engineering Properties of a Pennsylvania Shale, Gholamreza Mesri and Rocco Gibala, RM13:72:57

Engineering Properties of Submarine Soils: State-of-the Art Review, Iraj Noorany and Stanley F. Gizienski, SM5:Sept 70:1735:7536

Fire in Vegetation Management: Its Effects on Soil, L. F. DeBano and Raymond M. Rice, IAWM:72: 327

Foundation Design of the Waterford Nuclear Plant, Joseph L. Ehasz, Jr. and E. Radin, SDNPF:Dec 73: 83

High Pressure Experiments on Soil and Rock, Donald J. Murphy, Jr., RM13:72:691

Implementation of Foundation Design Criteria, Joseph L. Ehasz, Jr. and M. Temchin, SDNPF:Dec 73:99

Indirect Determination of In Situ Stress Ratios in Particulate Materials, Geoffrey E. Blight, EFSE: Aug 74:350

Influence of Soils on Water Yields, Julius H. Dawes, IAWM:72:85

The Kars (Ontario) Embankment Foundation, Gerald P. Raymond, PES:72:I-319

Low Velocity Penetration of Kaolin Clay, James D. Murff and Harry M. Coyle, SM5:May 73:375:9737

Measurement of InSitu Stress in Soils, Peter J. Huck and Madan M. Singh, EFSE:Aug 74:269

Minor Principal Stress Measurements in Marine Clay with Hydraulic Fracture Tests, Michael Bozozuk, EFSE:Aug 74:333

New Rheological Model for Soil Behavior, Fujiya Komamura and Rodney J. Huang, GT7:July 74:807: 10675

On The Standard Penetration Test in Test Borings (In Spanish), A. D. Ferraz Napoles Neto, 4PCSM: 71:II85
Pore Size Distribution Studies, Asuri Sridharan, Adolph G. Altschaeffl and Sidney Diamond, SM5: May 71:771:8151
Pore Sizes and Strength of Compacted Clay, Syed Ahmed, Charles William Lovell, Jr. and Sidney Diamond, GT4:Apr 74:407:10500
A Preload of Silty Fine Sand, Warren L. Schroeder and Edward G. Worth, PES:72:I-379
Recent Developments in Earthwork Instrumentation, Raymond A. Forsyth and Kenneth Jackura, EFSE: Aug 74:254
The Self-Boring Placement Method of Soil Characteristics Measurements, Francois Baguelin, Jean-Francois Jezequel and Alain LeMehaute, EFSE:Aug 74:312
Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443: 9212
Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511
The Standard Penetration Test, Victor F. B. de Mello, 4PCSM:71:I1
Standard Penetration Test and Relative Density, Klaus-Jurgen Melzer, 4PCSM:71:II37
Standard Penetration Tests in Collapsible Soils, Aldo R. Reginatto, 4PCSM:71:II77
Standard Test Boring with Drilling Mud, Charles S. Hedges, 4PCSM:71:II63
Subsurface Investigation for Design and Construction of Buildings: Part II, William F. Swiger, Chmn., SM6:June 72:557:8944
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV, William F. Swiger, Chmn., SM7:July 72:749:9070
Subsurface Investigation for Design and Construction of Foundations of Buildings: Appendices A and B, William F. Swiger, Chmn., SM8:Aug 72:771:9103
Subsurface Investigations for Design and Construction of Foundations of Buildings: Part I, William F. Swiger, Chmn., SM5:May 72:481:8917
A Theoretical Assessment of the SPT, Edward A. Nowatzki, 4PCSM:71:II45
Tjipanundjang Dam in West Java, Indonesia, Laurence D. Wesley, GT5:May 74:503:10543

Soil Resistivity
Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220

Soils
Airphoto Interpretation of Flood Plain Soils, Ralph W. Kiefer, SU1:Oct 69:49:6819
Analysis of Circular Footings on Layered Soils, Chandrakant S. Desai and Lymon C. Reese, SM4: July 70:1289:7408
Collapse Load of Reinforced Concrete Footings, George G. Meyerhof and Kanakapura S. Subba Rao, ST5:May 74:1001:10531
Creating Hydrophobic Soil for Water Harvesting, Lloyd E. Myers and Gary W. Frasier, IR1:Mar 69: 43:6436
Dynamic Interaction of a Shear Wall with the Soil, Juan Enrique Luco, EM2:Apr 69:333:6497
Expansive Soils -- the Hidden Disaster, D. Earl Jones, Jr. and Wesley G. Holtz, CE:Aug 73:49
Infiltration of Water into Nonuniform Soil, Herman Bouwer, IR4:Dec 69:451:6937
Influence of Soil Condition on Ground Motion During Earthquakes, H. Bolton Seed and Izzat M. Idriss, SM1:Jan 69:99:6347
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240
Rational Model Describing Slope Erosion, Dale L. Rowlison and Glen L. Martin, IR1:Mar 71:39:7981
Seepage from Trenches Through Nonhomogeneous Soils, Ahmed El Nimur and Robert L. Street, IR1: Mar 72:13:8777
Seepage Under Structure on Four Soil Strata, Charles W. Lenau, EM2:Apr 71:223:8058
Seismic Response of Soil Deposits, Izzat M. Idriss and H. Bolton Seed, SM2:Mar 70:631:7175
Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
Soil Indentation by Translating Flanged Plate, Jack L. Dais, EM4:Aug 71:1057:8285
Unconfined Transient Seepage in Sloping Banks, Chandrakant S. Desai and Walter C. Sherman, Jr., SM2:Feb 71:357:7915

Soil Stability
Design of Embankments on Peat, Gerald P. Raymond, GT74:June 74:143
Effect of Tension on Stability of Embankments, Eric Spencer, SM5:Sept 68:1159:6127
Embankments on Soft Ground, Laurits Bjerrum, PES: 73:II-1
Embankments on Soft Ground -- Reporter's Summary, William H. Perloff, PES:73:III-49
Foundation Construction Problems at Corps of Engineers Projects, Paul R. Fisher, John C. Bowman, Jr. and Benjamin I. Kelly, Jr., EFFD:Mar 74:121
High Fills Resting on Residual Soils (in Spanish), Christian K. De Fries and Edgar Pardo Stolk, 4PCSM:71:II153
Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101
Kimbley Pit Slope Failure, James V. Hamel, 4PCSM: 71:II117
New Design Procedure for Stability of Soft Clays, Charles C. Ladd and Roger Foott, GT7:July 74: 763:10664
Plastic Foam Serves as Lightweight Fill, Thomas A. Coleman, CE:Feb 74:68

Soil Stabilization
Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72: 327:8827
Applications of Electrokinetics in Grouting, Melvin I. Esrig, SM5:Sept 68:1143:6124
Book Review: Soil Stabilization, Principles And Practices, Stanley J. Johnson, CE:July 73:30
Cement Stabilized Fill for Conduit Support, Richard B. Catanach and Thomas N. McDaniel, TN: SM6: June 71:959:8162
Centrifugal Method of Mixing Soil with Stabilizer, Nam P. Suh and R. S. Lee, GT3:Mar 74:295:10411
Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908
Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72: 311:8858
Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72: 361:8840
Evaluation of Quick Test For Lime Stabilization, Marshall R. Thompson and James L. Eades, TN: SM2:Mar 70:795:7117
Foundation Precompression with Vertical Sand Drains, Stanley J. Johnson, PISST:71:9
Lime Reclaims Unstable Interior Subgrade During Construction, James M. Sheahan, CE:June 72:74
Lime-Treated Soils for Pavement Construction, Marshall R. Thompson, HW2:Nov 68:191:6249
Los Angeles Hillside Developments Put To Test by Recent Rains, Jack J. Schoustra and T. D. Lake, CE:Nov 69:39
Need for Estimated Cement Requirements for Stabilizing Lateritic Soils, Samuel A. Ola, TE2:May 74:379:10534
Planning and Performing Compaction Grouting, James Warner and Douglas R. Brown, GT6:June 74:653:10606
Pore Pressures, Consolidation, and Electrokinetics, Melvin I. Esrig, PISST:71:263
Reinforcement and Stabilization of Soil by Vegetation, Donald H. Gray, TN: GT6:June 74: 695:10597

Review of Expansive Soils, Gerald J. Gromko, GT6: June 74:667:10609
Settlement Control for Cosmotron Base, Jacob Feld, 4PCSM:71:II189
Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald L. York, CE:Aug 73:56

Soil Strength

The Development of a Special Instrument for the In Situ Measurement of the Strength and Stiffness of Soils, C. Peter Wroth and John M.O. Hughes, EFSE:Aug 74:295

Soil Structure

Circular Discontinuously Braced Excavation (In Spanish), Andres Perez M., 4PCSM:71:II203
Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235
Settlement Of Rectangular Foundation On Soil Layer, Jean-Pierre Giroud, TN: SM1:Jan 72:149: 8618
Structure of Deep Sea Clays, Vito A. Nacci and Milton T. Huston, CEO-II:70:599

Soil-Structure Interaction

The Allowable Settlement and the Design of Foundations, Fernando Emmanuel Barata, 4PCSM: 71:II197
The Allowable Settlement of Structures, Hugh Q. Golder, 4PCSM:71:I171
Analysis and Design of Nuclear Power Plant Structures, Peter K. Ho and Milomir Stoykovich, SDNPF:Dec 73:365
Basie Response Fuctions for Elastic Foundations, Anestis S. Veletsos and Branislav Verbic, EM2:Apr 74:189:10483
Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175
Comparative Study of Soil Spring and Finite Element Models for Seismic Soil-Structure Interaction Analysis of Nuclear Power Plants, P. K. Agrawal, Shih-Lung Chu and Hemant H. Shah, SDNPF:Dec 73:63
Construction of a Pumped Storage Power Plant on Soil Foundations, Robert L. Polvi, EFFD:Mar 74: 143
Design and Construction Features — Greenwood Unit One, Satyen M. Guha-Biswas, EPCE:Aug 74: 279
Design of Biaxially Loaded Rectangular Footings, N. Shanmughasundaram, TN: ST10:Oct 74:2157:10858
Design of Temporary Retaining Structures for the Washington Subway System, James P. Gould, PES: 73:III-251
Dynamic Characteristics of Soil-Structure Systems, State-of-Art Report 2, H. Bolton Seed, TB:73:Ib-6-177
Dynamic Influences on Foundation Calculations for Tower Shaped Structures, Roman Ciesielski and Janus Kawecki, TB:73:Ia-11-999
Dynamic Response of Circular Footings, Juan Enrique Luco and Russell A. Westmann, EM5:Oct 71:1381:8416
Dynamic Response of Embedded Machine Foundations, Kenneth H. Stokoe, II and Frank E. Richart, Jr., GT4:Apr 74:427:10499
Dynamic Soil-Structure Interaction, Mauricio A. Sarrazin, ST7:July 72:1525:9026
Dynamic Soil-Structure Interaction, Robert V. Whitman, TB:73:Ib-6-310
Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383: 8399
Earthquake Finite Element Analysis of Structure-Foundation Systems, Ashok K. Vaish and Anil K. Chopra, EM6:Dec 74:1101:10990
Earthquake Forces on Equipment in Nuclear Power Plants, Asadour H. Hadjian, PO3:July 71:649:8240
Earthquake Interaction by Fast Fourier Transform, Shih-Chi Liu and Lawrence W. Fagel, EM4:Aug 71:1223:8324
Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149
Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999
Effects of Foundation Construction on Nearby Structures, David J. D'Appolonia, 4PCSM:71:I189
Environmental-Geotechnical Considerations in the Routing of EHV Transmission Lines, Alfred E. Caswell, Charles V. Nazare, Richard J. Berger and Joseph F. Torri, EPCE:Aug 74:587
Experimental Study of Buckling of Buried Domes, Zvi Getzler and L. Lupu, SM2:Mar 69:605:6476
Finite Element Analyses of Retaining Wall Behavior, Gerald W. Clough and James M. Duncan, SM12: Dec 71:1657:8583
Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834
Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026
Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72: 273:9242
Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603
Modal Damping for Soil-Structure Interaction, Nien-Chien Tsai, EM2:Apr 74:323:10490
Modal Damping in Dynamic Analysis of Structures, Kao Ding Chiu and Hung Jen Kuo, SDNPF:Dec 73:499
Model for Machine-pile Foundation-soil System, Madhira Radha Madhav and N. S.V. Kameswara Rao, TN: SM1:Jan 71:295:7787
A New Approach to Soil-Structure Interaction Problems, Achyut V. Setlur, Jagannath K. Khanna and M. Valathur, SDNPF:Dec 73:139
Non-Synchronous Ground Motion, Horea Sandi, TB: 73:Ib-6-325
Nuclear Containment Mat Design Concepts, King-Yuen Chu and Alan A. Broussard, PO1:July 74:85: 10654
Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257
Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259
Pile Stability, Part 1 -- Elastic Soil, Peter J. Hoadley, GT74:June 74:225
Pile Stability, Part 2 -- Non-Elastic Soil, Peter J. Hoadley, GT74:June 74:245
Plane Strain Approximations in Finite Element Analyses of Temporary Walls, Yuet Tsui and Gerald W. Clough, GT74:June 74:173
Predicting Performance of Braced Excavations, T. William Lambe, PES:73:III-255
Rational Analysis of Raft Foundation, Stephen J. Hain and Ian K. Lee, GT7:July 74:843:10683
Seismic Analysis and Design of the San Onofre Nuclear Generating Station, Units 2 and 3 Containment, Jay W. Wiley, Jr., Kenneth M. Schechter, Don L. Price and P. W. Koss, EPCE: Aug 74:13
Seismic Design of Soil-Structure Systems, Richard A. Parmelee and John H. Wronkiewicz, ST10:Oct 71: 2503:8437
Seismic Motion of Buildings with Buried Foundations, Stephen A. Thau, Andrej Umek and Rouben Rostamian, EM5:Oct 74:919:10870
Seismic Resistant Design of Safety Class Structures and Equipment, Chang Chen, SDNPF:Dec 73:459
Settlement of Pile Groups Bearing on Stiffer Strata, Harry G. Poulos and Neil S. Mattes, TN: GT2:Feb 74:185:10310
Settlement of Two Tanks on Loose Cohesionless Soil, Leonard J. Langfelder and David W. Johnston, 4PCSM:71:II15

Settlements of Steel Tanks Founded on Clays (In Spanish), O. A. Varde, E. Nunez, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II179

Soil-Structure Interaction, Ralph B. Peck, PES:73:II-145

Soil-Structure Interaction, Michele Belloni and Michele B. Jamiolkowski, TB:73:Ia-11-990

Soil-Structure Interaction for Tall Buildings, John A. Focht, Jr., TB:73:Ia-11-1008

Soil-Structure Interaction -- Opening Remarks, Ralph B. Peck, PES:73:III-249

Soil Structure Interaction Problems for Nuclear Containment Structures, E. Kausel and Jose M. Roesset, EPCE:Aug 74:469

Soil-Structure Interaction -- Reporter's Remarks, Gerald W. Clough, PES:73:III-247

Soil-Structure Systems, Akbar R. Tamboli, TB:73:Ib-6-318

Soil Vertical Stress Influence Charts for Rectangles, Alfreds R. Jumikis, TN: SM2:Feb 71:521:7860

Some Problems with the Calculation of Seismic Forces on Equipment, Asadour H. Hadjian, SDNPF:Dec 73:1

Stiffness Coefficients for Layered Media, Gordon R. Johnson, Howard I. Epstein and Paul P. Christiano, TN: ST7:July 74:1537:10647

Stress Distribution Around Shallow Buried Rigid Pipes, Subhash C. Anand, ST1:Jan 74:161:10258

Stresses on Shallow Circular Pipe by Transformed Section, Rowland Richards, Jr. and Jagdish S. Agrawal, GT6:June 74:637:10631

Structural Design of Fukushima No. 6 and Tokai No. 2 Nuclear Power Plants, Hsiang-Sheng Chang, SDNPF:Dec 73:391

Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352

Structure-Foundation Interaction of Nuclear Power Plant Structure During Earthquakes, R. Joe Hunt, SDNPF:Dec 73:119

Three Dimensional Soil-Structure Seismic Analysis Using Finite Elements, Surendra Singh, Ramachandran Srinivasan, P. K. Agrawal and Shih-Lung Chu, SDNPF:Dec 73:43

Use of the Finite Element Method in Analysis of Soil-Structure Interaction, James M. Duncan, PES: 73:III-265

Soil Surveys

Accuracy of Field Deformation Measurements, James P. Gould and C. John Dunnicliff, 4PCSM:71:I313

Soil Tests

Accuracy of Field Deformation Measurements, James P. Gould and C. John Dunnicliff, 4PCSM:71:I313

Control of Deformation Rates in Soil Testing, Roy E. Olson, Vincent J. McDonald and James N. Sterner, TN: SM1:Jan 71:283:7787

Deformation of Sand in Shear, Hon-Yim Ko and Ronald F. Scott, SM5:Sept 67:283:5470

Difficulties In Prediction Of Horizontal Deformations Of Foundations, Harry G. Poulos, TN: SM8:Aug 72:843:9085

Dynamic Cone and Standard Penetration Test in Silty Sands (In Spanish), Ricardo Dobry, 4PCSM: 71:II1

Equipment for Field Deformation Measurements, C. John Dunnicliff, 4PCSM:71:II319

Implementation of Foundation Design Criteria, Joseph L. Ehasz, Jr. and M. Temchin, SDNPF:Dec 73:99

Mechanical Properties of a Sand-Ice System, Roy R. Goughnour and Orlando B. Andersland, SM4:July 68:923:6030

Mechanical Properties of a Sand-Ice System, Roy R. Goughnour and Orlando B. Andersland, PISST:71: 287

On The Standard Penetration Test in Test Borings (In Spanish), A. D. Ferraz Napoles Neto, 4PCSM: 71:II85

Predicting Effective Stress Paths, James P. Olson and Harvey E. Wahls, TN: SM8:Aug 71:1139:8307

Recording Inclinometer for Measuring Soil Movement, Leslie G. Bromwell, Christopher R. Ryan and William E. Toth, 4PCSM:71:II333

Retaining Wall Experiment to Evaluate Soil Strain Gage, Ernest T. Selig and Jackson Ho, TN: SM6: June 71:953:8162

Settlement Control for Cosmotron Base, Jacob Feld, 4PCSM:71:II189

Settlement of Two Tanks on Loose Cohesionless Soil, Leonard J. Langfelder and David W. Johnston, 4PCSM:71:II15

The Standard Penetration Test, Victor F. B. de Mello, 4PCSM:71:I1

Standard Penetration Test for Sand Denseness, Harold J. Gibbs, 4PCSM:71:II27

Standard Penetration Tests in Collapsible Soils, Aldo R. Reginatto, 4PCSM:71:II77

A Theoretical Assessment of the SPT, Edward A. Nowatzki, 4PCSM:71:II45

Vibrator for Soil Testing, Gerd F. Weissmann, TN: SM3:Mar 71:601:7962

Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219

Yielding of Sand in Plane Strain, Sam Frydman, GT5:May 74:491:10540

Soil Texture

Apollo 11: Soil Mechanics Results, Nicholas C. Costes, W. David Carrier, III, James K. Mitchell and Ronald F. Scott, SM6:Nov 70:2045:7704

Estimating Soil Permeability Rates, Merlin E. Horn, IR2:June 71:263:8169

Liquid Limit Values by Soil Moisture Tension, Eugene R. Russell and L. Jack Mickle, SM3:May 70:967:7298

Soil Treatment

Salinity Status of Marl Soils in Southern Florida, E. H. Stewart, R. R. Alberts and P. G. Orth, SEA:70: 63

Subgrade Strengthening of Existing Airfield Runways, Quentin L. Robnett, TE2:May 73:267:9724

Soil Water

The Slide at Brilliant Cut, James V. Hamel, RM13: 72:487

Soil Water Movement

Subsurface Irrigation System Analysis and Design, Yu-Si Fok and Lyman S. Willardson, IR3:Sept 71: 449:8380

Soil-Water Relationship

Stress Day Index ... A New Concept for Irrigation Timing, Edward A. Hiler, Terry A. Howell and David G. Bordovsky, OIDS:72:579

Solar Energy

Designing Energy-Conserving Buildings, Eugene E. Dallaire, CE:Apr 74:54

Solar Heating and Cooling: Untapped Energy Put to Use, George O.G. Lof and Dan S. Ward, CE:Sept 73:88

Solar Energy Concentrators

Solar Heating and Cooling: Untapped Energy Put to Use, George O.G. Lof and Dan S. Ward, CE:Sept 73:88

Solar Radiation

Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945

Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250

Designing Against Infiltration, State-of-Art Report 4, Elmer E. Botsai, TB:73:Ia-12-1131

Infrared Aerial Surveys in Environmental Engineering, Rudolph V. Matalucci and Mohamed Abdel-Hady, SA6:Dec 68:1071:6277

Present Day Evaporation Measurement Techniques, G. Earl Harbeck, Jr. and J. Stuart Meyers, HY7: July 70:1381:7388

Successful Ice Dusting at Fairbanks, Alaska, 1966, R. Gordan Cook and Mason D. Wade, Jr., HY1:Jan 68:31:5717

Solid Bowl Classifiers

Scale-Up of Solid Bowl Centrifuge Performance, P. Aarne Vesilind, EE2:Apr 74:479:10474

Solids

The Effect of Solids on Sewage Disinfection, William C. Lee and D. H. Waller, NSCD:71:203

Radial Flow Between Porous and Solid Discs, Chyan S. Chiou and Harold L. Weissberg, TN: EM6:Dec 71:1759:8559

Torsion of Nonhomogeneous Solid, Manoon Chuaprasert and Mumtaz K. Kassir, EM4:Aug 73: 703:9948

Solids Flow

Initial Economic Evaluation of Slurry Pipeline Systems, E. J. Wasp, T. L. Thompson and T. C. Aude, TE2:Apr 71:271:8106

Solid Wastes

Aerobic and Anaerobic Landfill Stabilization Process, Ralph Stone and Rishab K. Gupta, SA6:Dec 70: 1399:7766

Application of New Technology to the Solution of Environmental Problems, Ralph E. Fadum, PWS: Nov 72:219

Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424

Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4: Apr 72:311:8817

Chicago's Northwest Incinerator, Milton Pikarsky, CE:Sept 71:55

Compost for Agricultural Land, Cord Tietjen and Samuel A. Hart, SA2:Apr 69:269:6506

Computerized Residential Refuse Districting, Geoffrey N. Berlin, UP2:Nov 74:173:10916

Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73: 365:9713

Construction Solid Waste, David A. Spivey, CO4: Dec 74:501:10993

Conversion of Organic Waste to Fuel, John L. Cox, Warrack G. Willson and Edward J. Hoffman, EE3: June 74:717:10579

Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104

Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403

Demonstration Sanitary Landfill in Kansas City, Kans., Gerald A. Neely and Nicholas S. Artz, CE: Oct 72:72

Dynamic Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE4:Aug 74:869:10701

Economical Refuse Truck Size Determination, Richard P. Cardile and Francis H. Verhoff, EE3: June 74:679:10612

The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032

Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50

Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408

Field Consolidation of High Ash Papermill Sludge, Robert P. Vallee and Orlando B. Andersland, GT3: Mar 74:309:10431

Fleet Selection for Solid Waste Collection Systems, Robert M. Clark and Billy P. Helms, SA1:Feb 72: 71:8720

How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107

Improving Manual Solid Waste Separation Studies, Paul W. Britton, SA5:Oct 72:717:9234

Interdisciplinary Planning to Meet Environmental Needs, Frederick J. Clarke, PP4:Oct 72:497:9262

Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946

Location Models: Solid Waste Collection Example, David H. Marks and Jon C. Liebman, UP1:Apr 71: 15:8027

Management of Solid Waste-The Utility Concept, Robert M. Clark, Richard O. Toftner and Thomas W. Bendixen, SA1:Feb 71:33:7875

Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253

Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, CEO-II:70:249

Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, SA6:Dec 70:1387:7769

Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916

Multivariate Study of Refuse Collection Efficiency, Lawrence J. Partridge, Jr. and Joseph J. Harrington, EE4:Aug 74:963:10729

Optimal Routing of Refuse Collection Vehicles, Richard M. Bodner, E. Alan Cassell and J. Peter Andros, SA4:Aug 70:893:7451

Planning Comprehensive Solid Wastes Management Systems, H. Lanier Hickman, Jr., SA6:Dec 68:1147: 6303

Processing and Recovery of Municipal Solid Waste, Robert F. Testin and Neil L. Drobny, SA3:June 70: 699:7345

Recycling Wastes for Structural Application, Seymour A. Bortz and Murray A. Schwartz, EM2: Apr 73:249:9648

Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437

Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214

Research Needs in Sanitary Engineering, Jack M. Betz, Chmn., SA2:Apr 72:299:8833

Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543

Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280

Simulation Model of Refuse Collection Policies, Jimmie E. Quon, Masaru Tanaka and Stephen J. Wersan, SA3:June 69:575:6626

Solid Waste Management: Equity Trade-Off Models, Louis A. Fuertes, James F. Hudson and David H. Marks, UP2:Nov 74:155:10913

Status of Radioactive Waste Disposal in U.S.A., Frank L. Parker, SA3:June 69:439:6597

St. Louis Powerplant Burns City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30

Systems Analysis and Solid Waste Planning, Robert M. Clark and James I. Gillean, EE1:Feb 74:7:10316

Waste Generation Models for Solid Waste Collection, Donald Grossman, James F. Hudson and David H. Marks, EE6:Dec 74:1219:11022

Water and Sewage Sludge Absorption by Solid Waste, Ralph Stone and Richard L. Kahle, SA5:Oct 72:731:9250

Solutions

Iron Removal Using Magnesium Oxide, John T. O'Connor and Barrett E. Benson, SA6:Dec 70: 1335:7740

Sonar Equipment

Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Vito A. Vanoni, Chmn., HY12: Dec 70:2417:7781

Sonic Tests

Acoustic Techniques Suitable for Use in Soil, D. L. Hipkins and L. A. Whitney, EFSE:Aug 74:159

Sorption

Clay Slurry Sorption of Carrier-Free Radiocations, William A. Goldsmith and W. Emmett Bolch, SA5: Oct 70:1115:7611

Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72: 1021:9430

Sound
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079

Sounding
Effect of Long Period Waves on Hydrographic Surveys, Orville T. Magoon and William O. Sarlin, 12CEC:71:2251

Sound Level Meters
Surveying Safety, John M. Shields and Jack J. Wilks, SU1:July 72:67:9057

Sound Ranging
Sound Time-Lag Measurement for Distance Determination, L. R. Morgan and T. L. Morgan, CE:Feb 69:58

South Africa
Coastal Engineering Measurements, Johan A. Zwamborn, K. S. Russell and J. Nicholson, CE13: 72:I-75
Dam Safety Laws and Dam Safety Inspections in South Africa, Johannes Gideon du Plessis, IMROD:Sept 73:241
Ocean Wave Research in Southern Africa, Johan A. Zwamborn, C. van Schaik and A. Harper, 12CEC: 71:13
Standard Bank Centre (Johannesburg S.A.), Hentrich - Petschnigg & Partner, TB:73:C-P-446
Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87

South America
Construction in South America, State-of-Art Report 5, Sergio E. Pellegrini, TB:73:Ia-12-1135
Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423
Research Review -- North and South America, State-of-Art Report 3, W. Alan Dalgliesh and R. D. Marshall, TB:73:Ib-7-383
South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, Nilo Andrade Amaral, TB:73:III-20-57

South Carolina
Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
Bad Creek Pumped Storage Project, James G. Hester and Robert F. Edmonds, EPCE:Aug 74:241

South Dakota
Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451
Rapid Creek Watershed, Donald A. Thorson, HYB: Aug 73:449
Shear Strength of Homestake Slimes Tailings, James V. Hamel and James W. Gunderson, TN: SM5:May 73:427:9703
Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9: Sept 72:1515:9187

South Korea
Namhae Suspension Bridge, Hackjoo Hwang and Lawrence Chung Lee, CE:Oct 74:50

Spaceborne Detectors
Ground Truth: It's Role in Resource Assessment from Space, Donald T. Lauer and Don L. Olson, ESE:Apr 70:93

Spaceborne Photography
Coastal Processes from Space Photography, Maynard M. Nichols, 12CEC:71:641
Helping Man To Use The Seas, Robert M. White, CEO-II:70:11
Mapping from Space, Alden P. Colvocoresses, SU1: May 71:125:8137
Resource Assessment with the Aid of Space Photography, Robert N. Colwell, ESE:Apr 70:45

Spacecraft
Multiple Configuration Analysis of Structures, Robert J. Melosh and Rein Luik, ST11:Nov 68:2581:6220
A Space Shuttle Design Consideration, C. B. Peterson, ESE:Apr 70:29

Spacecraft Landing
Lunar Landing Site Assessment, James H. Sasser, ESE:Apr 70:109

Space Exploration
Algal Reactor For Life Support Systems, Gedalia Shelef, William J. Oswald and Percy H. McGauhey, SA1:Feb 70:91:7105

Space Flight
Maximum Dynamic Response and Proof Testing, Jann-Nan Yang and Ewald Heer, TN: EM4:Aug 71:1307:8273

Space Frames
Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455
Tangent Stiffness in Space Frames, Cenap Oran, ST6: June 73:987:9813

Space Reconnaissance
Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
Coastal Processes from Space Photography, Maynard M. Nichols, 12CEC:71:641

Space Stations
Manned Space Station: Civil Engineer's Role, Stewart W. Johnson, CE:Oct 71:88
A Space Shuttle Design Consideration, C. B. Peterson, ESE:Apr 70:29

Space Structures
Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615

Space Surveillance (Spaceborne)
Helping Man To Use The Seas, Robert M. White, CEO-II:70:11
Orthophotoquads for Arizona Land-Use Mapping and Planning, Carl C. Winikka and Samuel A. Morse, Jr., SU1:May 74:1:10525

Spacing
Optimum Beam Layout for Large Areas, Paul Grundy, ST8:Aug 71:2085:8304
Staggered Columns in Flat Plates, Maurice P. Van Buren, ST6:June 71:1791:8222
Steady Drainage of Layered Soils: II, Nomographs, Sadik Toksoz and Don Kirkham, IR1:Mar 71:19: 7986
Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687: 9428

Spain
Jose Ma de Oriol Dam, Manuel Castillo, EFFD:Mar 74:167
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
Opening Remarks, E. Montford Fucik, ECCD:72:395
Sea Observation in Coastal Areas: The Spanish Offshore Network, P. S. Bores, WAVES:Sept 74:13
A Teleprocess System: The Spanish Offshore Network, L. Tejedor, WAVES:Sept 74:186

Spans
200 West Monroe Building, Welton Becket and Associates, TB:73:C-P-306

Spatial Distribution

De Saint-Venant Equations Experimentally Verified, Willem F. Brutsaert, HY9:Sept 71:1387:8378

Spatially Varied Flow Over Side-Weirs, Kanakatti Subramanya and Subhash Chandra Awasthy, HY1: Jan 72:1:8627

Specifications

Alkali-Silica Reaction: A Major Cause of Concrete Deterioration, Joseph D. Walters, IMROD:Sept 73: 464

Allowable Bending Stress Design Aid, Allen J. Hulshizer, CE:Feb 70:63

An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB: 73:Ia-4-797

Better Specifications for Underground Work, J. Donovan Jacobs, CE:June 71:47

Better Specifications for Underground Work, J. Donovan Jacobs, URC:72:515

Book Review: Drilled Pier Foundations, Joseph M. DeSalvo, CE:Mar 73:40

Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826

Commentary on Orthotropic-Deck Bridge Specifications by the Task Committee on Orthotropic Plate Bridges of the Committee on Metals of the Structural Division, Charles G. Schilling, Chmn., ST1:Jan 74:109:10273

Commentary on Structural Standards, Theme Report, P. A. Lorin, TB:73:II-13-7

Computer-Aided Processing of Design Specifications, Surendra K. Goel and Steven J. Fenves, ST1:Jan 71:463:7839

Computer-Aided Processing of Structural Design Specifications, Surendra K. Goel and Steven J. Fenves, EC5:70:763

Concrete Dam Construction Practices, Marcello Garavaglia, ECCD:72:467

Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327

Constraint Processing in Design, Richard N. Wright, LeRoy T. Boyer and John W. Melin, ST1:Jan 71: 481:7856

Contractual Pitfalls, Al Wasserman, EPMT:73:37

Control of Quality-A System, Edward A. Abdun-Nur, CO2:Oct 70:119:7576

Corps of Engineers Studies of Shotcrete, Thomas J. Reading, SUSS:July 73:263

Critique of Designs and Specifications, Grant P. Gordon, ECCD:72:201

Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87

Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-Europian Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB: 73:II-13-37

Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23

Design of Laterally Unsupported Timber Beams, David W. Fowler, ST3:Mar 71:881:7995

Design Requirements for Safer Highway Bridge Rails, Robert M. Olson, Edward R. Post and Don L. Ivey, TE2:May 71:291:8125

Dialogue--Is Water Quality Enhancement Feasible?, Stanley E. Kappe, WQEF:Mar 70:3

Economical Construction of a Concrete Gravity Dam, Lewis H. Tuthill, ECCD:72:65

Economic Aspects of Curing Mass Concrete, Bryant Mather, ECCD:72:39

Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623

Formulation of Decision Logic Tables, Jimmy L. Noland and Chuan C. Feng, ST1:Jan 71:439:7855

General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103

High Strength Bolts Subject to Tension and Prying, Rajasekharan S. Nair, Peter C. Birkemoe and William H. Munse, ST2:Feb 74:351:10373

Introductory Remarks, Merlin D. Copen, ECCD:72: 169

Model Form of "Instructions To Bidders," by the Committee on Contract Administration of the Construction Division, Woodrow W. Wilson, Chmn., CO1:Mar 74:27:10407

Owner-Engineer-Contractor Economic Considerations in Dam Construction, Gerald T. McCarthy, ECCD:72:493

Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301: 9594

Recent Concrete Developments in the Corps of Engineers, John W. Morris, ECCD:72:15

Report of Workshop B's Second Meeting -- Construction Specifications, Equipment, and Systems for Concrete Dams, Jack W. Ward, ECCD:72:337

Report on Recommended Amendments to AIA General Conditions (A-201), Eleventh Edition, September, 1967, by the Committee on Contract Administration of the Construction Division, Robert D. Rowland, Chmn., CO2:Oct 70:165:7640

Review of Steel Design Standards in Australia, State-of-Art Report 4B, Maxwell G. Lay, TB:73:II-13-71

Role of Contract and Specifications in Foundations Construction, Max E. Greenberg, CO2:June 74:113: 10607

Role of Specifications in Foundation Construction, Walter S. Douglas, TN: CO2:June 74:198:10570

Specifying Structural Concrete for Buildings, Sidney Freedman, CE:Nov 73:68

Specs - A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, EC5:70:707

Specs-A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, ST1:Jan 71:425:7844

Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51

Standard Specifications for Highway Bridges - New Edition (Book Review), W. J. Wilkes, CE:July 70: 111

Steel Highway Accessory Structures, Donovan S. Wolford, ST7:July 71:1991:8255

Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, Theodore R. Higgins, TB:73:II-1

Suggested Design Guides for Beams with Web Holes, John E. Bower, Chmn., ST11:Nov 71:2707:8536

Suggested Steel Ductility Requirements, Asfandiar K. Dhalla and George Winter, ST2:Feb 74:445:10366

Summary of Session I -- Recent Developments in Design and Construction of Concrete Dams, Charles F. Corns, ECCD:72:25

Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Test Method for Seismic Qualification of Equipment, Michael de Estrada, PO1:July 74:97:10656

Water Quality Standards and the Citizen, Mrs. Donald E. Clusen, WQEF:Mar 70:37

1969 AISC Specifications, Theodore R. Higgins, CE: Oct 69:53

Specific Gravity

The Nature of Lunar Soil, W. David Carrier, III, James K. Mitchell and Arshud Mahmood, SM10: Oct 73:813:10099

Spectra

Seismic Design and Analysis of Nuclear Plant Components, Milomir Stoykovich, SDNPF:Dec 73: 1

Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142

Spectral Determination

Design Considerations on Wave Spectrum Estimation, Mehmet Aziz Tayfun, Cheng Y. Yang and George Chia-Chu Hsiao, WAVES:Sept 74:125

Development of Response Spectra for a Thin Shell Structure, D. R. Denton, Chung-Tung Shen and C. K. Webster, SDNPF:Dec 73:571
A Discussion of Some Measured Wave Data, J. R. Wilson and W. F. Baird, CE13:72:I-113
Effects of Parameter Variations on Floor Response Spectra, L. K. Liu, C. L. Child and B. Nowotny, SDNPF:Dec 73:435

Spectral Energy Distribution
Flow-Field Relationships in Directional Waves, R. R. Putz, WAVES:Sept 74:721
Properties of Spectral Moments with Applications to Random, Erik H. Vanmarcke, EM2:Apr 72:425:8822
Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4:Nov 72:443:9318

Spectrum Analysis
Directional Spectra Model for Ocean Waves, Jared L. Black, WAVES:Sept 74:713
Non-Stationary Spectrum Analysis of Ocean Waves, Mehmet Aziz Tayfun, Cheng Y. Yang and George Chia-Chu Hsiao, CE13:72:I-251
The One-Dimensional Wave Spectra at Limited Fetch, Hisashi Mitsuyasu, CE13:72:I-289
Prediction of Wind Wave Heights, Henry T. Falvey, WW1:Feb 74:1:10324
Researches on the Deformation of Wave Spectra in Intermediate Water Area by Calculation, Frederick L.W. Tang and Shan-Hwei Ou, CE13:72:I-271

Speed Indicators
Harbor Study for San Nicholas Bay, Peru, James M. Murphy and Emmett J. Murphy, WW2:May 70:251:7271

Spheres
Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809
Drag Coefficients in Nonsteady Turbulent Flow, Alex J. Sutherland and David J. Painter, HY7:July 71:1031:8233
Dynamic Response Of Submerged Sphere, Herman Bomze, CEO-II:70:511
Gravity and Surface-Load Stresses in Spheres, August J. Durelli, Vincent J. Parks and Luis Ferrer, EM4:Aug 70:407:7481
Ocean Wave Forces on a Subsurface Sphere, Robert A. Grace and Frederick M. Casciano, WW3:Aug 69:291:6722
Spherical Structural Systems In Fluid Media, Bijoy K. Bhattacharys and John F. Carney, III, CEO-II:70:555

Spherical Shells
Acoustic Approximations in Fluid-Shell Interactions, Bedros Bedrosian and Frank L. DiMaggio, EM3:June 72:731:8998
Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5:Oct 72:1115:9247
Buckling and Post-Buckling of Spherical Caps, Nuri Akkas and Nelson R. Bauld, Jr., EM3:June 71:727:8189
Frequency Analysis of Complete Spherical Shells, Carl F. Long, EM3:June 69:505:6591
Inelastic Buckling of Shallow Spherical Shells, Lawrence H.N. Lee, Teoman Ariman and Roger E. Hoffman, CEO-II:70:579
Nonsymmetric Modes of Complete Spherical Shells, John F. Gormley and William C. L. Hu, EM3:June 69:545:6606
Plastic Buckling Of Point-Loaded Spherical Shells, Stephan S-K Wang and Sanford B. Roberts, EM1:Feb 71:77:7930
Stability of Shells by Parametric Differentiation, S. K. Radhamohan, Achyut V. Setlur and John E. Goldberg, ST6:June 71:1775:8216
Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6:Dec 72:1417:9446

Spillway Capacity
The Johnstown Flood Revisited, Alfred R. Pagan, CE:Aug 74:60
Reevaluating Spillway Adequacy of Existing Dams, Russell W. Revell, Chmn., HY2:Feb 73:337:9571
Review of Spillway Adequacy at Existing Bureau of Reclamation Dams, Garry H. Austin, IMROD:Sept 73:382

Spillway Design Flood
Spillway Design for Series of Reservoirs, Catalino B. Cecilio, Brook A. Kraeger and Vefa Yucel, HY10:Oct 74:1329:10851

Spillways
Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859
Churchill Falls Power Facilities, D. Wermenlinger, J. G.S. Thompson and J. M. Gardiner, PO2:Mar 71:515:7974
Construction and Operation of Wells Dam, Joseph Anderson and Lee A. Wyngaard, PO2:Feb 71:335:7975
Designing Spillway Crests for High-Head Operation, John J. Cassidy, HY3:Mar 70:745:7153
Design of Carters Pumped Storage Project, Walter W. Burdin, PO3:June 70:383:7353
Design of Combined Service and Auxiliary Spillway at Auld Valley Reservoir, George F. Horowitz and Daumantas Namikas, HY10:Oct 70:1965:7615
Developing Region in Self-Aerated Flows, Robert J. Keller, K. K. Lai and Ian R. Wood, HY4:Apr 74:553:10501
Development of Wells Hydroelectric Project, James G. Patrick, PO2:Mar 71:267:7967
Discharge Facilities at Hells Canyon Dam, J. T. Gilchrist and D. E. Barclay, PO2:Nov 68:161:6230
Dworshak Dam Spillway and Outlets Hydraulics Design, Albert L. McCormmach, HY4:July 68:1051:6045
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
Flow Through Spillway Flip Bucket, Charles W. Lenau and John J. Cassidy, HY2:Mar 69:633:6478
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Model and Prototype Tests of Buoyant Spillway Gates, Arthur G Strassburger and James F Sias, PO2:Oct 69:335:6863
Mossyrock Arch Spillway, David S. Louie, PO1:Jan 71:39:7792
Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, Teh-Yuh Kao and Daniel L Shoemaker, HYB:Aug 73:349
Potential Flow Over Spillways at Low Heads, Charles W. Lenau, EM3:June 67:95:5287
Reevaluating Spillway Adequacy of Existing Dams, Bob J. Buehler, IMROD:Sept 73:320
Reevaluation and Reconstruction of California Dams, Clifford J. Cortright, PO1:Jan 70:55:7008
Review of Spillway Adequacy at Existing Bureau of Reclamation Dams, Garry H. Austin, IMROD:Sept 73:382
Safety of Dams - Bureau of Reclamation, Donald A. Gray, HY2:Feb 74:267:10354
Selecting Spillway Floods for Existing Structures (Bureau of Reclamation Application), Frederick A. Bertle, IMROD:Sept 73:328
Selecting the Appropriate Design Flood, Gordon R. Williams, IMROD:Sept 73:348
Spillway Design for Series of Reservoirs, Catalino B. Cecilio, Brook A. Kraeger and Vefa Yucel, HY10:Oct 74:1329:10851
Spillway Foundation Damage and Repairs, Andrew Eberhardt, EFFD:Mar 74:401
Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676
Spillway Redesign Abates Gas Supersaturation in the Columbia River, Hugh A. Smith, Jr., CE:Sept 74:70

Spillway Stilling Basin Repair Using Bonded Concrete and Epoxy Mortar, James R. Graham, OIDS:72:185
Summaries of Sessions, William N. Holway, IMROD: Sept 73:273
Surface Tension in Froude Models, W. Hall C. Maxwell and J. Richard Weggel, HY2:Mar 69:677: 6482
Tocks Island Project Spillway Rock Mechanics Studies, A. Depman, K. Dodds and D. Parrillo, RM13:72:443
Wells Dam: Powerplant and Spillway Combined, James G. Patrick, Harris H. Burke, Robert T. Loder and Michael W. Erho, CE:Oct 70:61

Spirals
Continuous Helicoidal Girders, Assad Abdul-Baki and Abla Shukair, ST10:Oct 73:2183:10108

Splines
Nonlinear Analysis Using Spline Functions, Chandrakant S. Desai, SM10:Oct 71:1461:8462

Spoil
Dredge Spoil Surveillance In Shellfish Areas, George W. Allen and Donald M. Conlon, CEO-II:70:823
Selection of Disposal Areas for Spoil From Baltimore Harbor, John F. Hoffman, 12CEC:71:2267

Spraying
Land Treatment of Food Processing Wastewaters, Louis C. Gilde, IR3:Sept 73:339:10000

Spray Nozzles
Practical Aspects of Shotcrete Application, Fernando E. Valencia, SUSS:July 73:114
Remote Nozzle Permits High Production and Safety, James S. Goff, SUSS:July 73:405
Summary of Session X - Shotcrete Case Histories and Specialties, Kenneth D. Hansen, SUSS:July 73: 436
Use of Remote Controlled Spraying Nozzle, Claes Alberts, SUSS:July 73:65
Use of Special Cements in Shotcrete, Madan M. Singh and Seymour A. Bortz, SUSS:July 73:200
Using Accelerator - Wet Process, H. N. Steenson, SUSS:July 73:104

Spread Footings
Settlement of Footings on a Non-Uniform Foundation, C. Robert Lennertz, PES:72:I-929

Spreading
Unsteady Spread of Buoyant Surface Discharge, James J. Sharp, HY9:Sept 71:1471:8396

Springs (Water)
Measuring Subsurface Spring Flow With Radiotracers, William C. Galegar and Myron W. DeGeer, SA6:Dec 69:1097:6973

Sprinkler Irrigation
Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957
Construction and Operation of Pump Irrigation Facilities Along the Columbia and Okanogan Rivers, Boyd H. Walter, OIDS:72:161
Disposal of Domestic Wastewater by Hillside Sprays, Endel Sepp, EE2:Apr 73:109:9673
Economic Pipe Sizing for Gravity Sprinkler Systems, Roland P. Perold, IR2:June 74:107:10583
Irrigation Adequacy with Center Pivot Sprinklers, Douglas Anderson and Robert J. Brown, IRS:Sept 72:353
Needed - A New Outlook for Irrigation, Ellis L. Armstrong, OIDS:72:1
Simulation of Wind Effects on Sprinkler Performance, Stephen V. Allison and Victor L. Hesse, IR4:Dec 69:537:6978
Stands for Automation Achieved by Sprinkling, Frank E. Robinson, IR3:Sept 69:385:6774
Water Use and Production of Trickle Irrigated Onions, Theodore C. Patterson, IR73:Aug 73:317
Wind Variation and Sprinkler Water Distribution, Ido Seginer, IR2:June 69:261:6594

Sprinklers
Center Pivot Design Capacities in Eastern Colorado, Dale F. Heermann, Hollis H. Shull and Rome H. Mickelson, IR2:June 74:127:10588
Disposal of Domestic Wastewater by Hillside Sprays, Endel Sepp, EE2:Apr 73:109:9673
Irrigation Adequacy with Center Pivot Sprinklers, Douglas Anderson and Robert J. Brown, IRS:Sept 72:353
Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB: 73:Ib-8-523
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9: Sept 73:1531:10004
Wind Variation and Sprinkler Water Distribution, Ido Seginer, IR2:June 69:261:6594

Sprinkler Systems
Book Review: Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, Richard W. Bletzacker, CE:June 73:34
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Sprinklers, H. W. Marryatt, TB:73:Ib-8-681

Stability
Accuracy Equilibrium Slope Stability Analyses, Stephen G. Wright and Fred H. Kulhawy, SM10: Oct 73:783:10097
Additional Items Affecting Frame Strength, Egor P. Popov, TB:73:II-16-595
Aeroelastic Instability of Prisms in Turbulent Flow, Milos Novak and Alan G. Davenport, EM1:Feb 70: 17:7076
Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101
Analysis of the Triaxial Test for Granular Soils, Paul R. Paslay and Jay B. Weidler, EM3:June 69:587: 6611
Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233: 8643
Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480
Analysis of Unbraced Multistory Steel Rigid Frames, E. Whitman Wright and Edwin H. Gaylord, ST5: May 68:1143:5944
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
Analyzing and Strengthening Concrete Dams on Deficient Foundation, Glen S. Tarbox, IMROD: Sept 73:741
An Approach to $\phi_m = 0$ Analysis for Stage Construction, Chitta R. Gangopadhyay, TN: GT6: June 74:699:10597
Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771
Assured Upper Bounds via Complementary Energy, Carl H. Popelar, EM4:Aug 74:623:10704
Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5: Oct 72:1115:9247
Asymptotic Stability Analysis of Viscoelastic Systems, Rong-Chung Shieh, EM2:Apr 71:193:8035
Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6: Dec 72:1353:9441
Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73: 433:9816
Behavior of Biaxially Loaded Columns, Wai F. Chen, TB:73:II-16-575
Behavior of Continuous Crane Rails, Pavel J. Marek and J. Hartley Daniels, ST4:Apr 71:1081:8067
Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7: July 72:1361:9010

Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, Karl Kordina, TB:73:III-23-555

Behaviour of Concrete-Filled Steel Tubular Columns, Wai F. Chen, TB:73:III-23-608

Bibliography on Latticed Structures, Donald R. Sherman, Chmn., ST7:July 72:1545:9055

Boundary Effects on Stability of Structures, Amrik S. Chawla, HY9:Sept 72:1557:9199

Bounding of Frame Buckling Loads, Alfred Korn, ST8:Aug 70:1639:7452

Buckling and Post-Buckling of Spherical Caps, Nuri Akkas and Nelson R. Bauld, Jr., EM3:June 71:727:8189

Buckling Formulas for Design, John E. Goldberg, TB:73:II-16-581

Buckling Frequencies of Long Vertical Pipes, Tseng Huang and D. W. Dareing, EM1:Feb 69:167:6400

Buckling of Axially Loaded Cylindrical Panels, Pan San Hsueh and Alexander Chajes, EM3:June 71:919:8210

Buckling of Cylindrical Shells by Wind Pressure, Yung-shih Wang and David P. Billington, EM5:Oct 74:1005:10874

Buckling of Inelastic I-Beams Under Uniform Moment, Nicholas S. Trahair and Sritawat Kitipornchai, ST11:Nov 72:2551:9339

Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903

Buckling of Multilayer Plates by Finite Elements, Harry R. Lundgren and Ahmed E. Salama, EM2:Apr 71:477:8051

Buckling of Polar Orthotropic Annular Plates, Kaja Vijayakumar and C. V. Joga Rao, EM3:June 71:701:8171

Buckling of Rigidly-Jointed Plane Trusses, Adel Helmy Salem, ST6:June 69:1271:6628

Buckling of Simply Supported Folded Plates, Michel L. Mikhail and Sidney A. Guralnick, EM5:Oct 71:1363:8414

Buckling of Slanted Columns, Chin-Hao Chang, EM4:Aug 74:737:10738

Character and Stability of a Natural Tidal Inlet, Curtis Mason and Robert M. Sorensen, CE13:72:II-781

Circular and Logarithmic Spiral Slip Surfaces, Eric Spencer, SM1:Jan 69:227:6361

Column Instability Under Weight and Follower Loads, David J. McGill, EM3:June 71:629:8196

Columns Design in Buildings, State-of-Art Report 1, J. Brozzetti and J. Fourcriat, TB:73:II-16-415

Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238

Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603

Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, Mogens Lorentsen, TB:73:III-23-585

Construction Self-Weight Stresses Of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, EC5:70:645

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3:June 72:595:8968

Curvature and the Solution of Eccentrically Loaded Columns, Wai F. Chen and Sakda Santathadaporn, EM1:Feb 69:21:6382

Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631

Deflection Stability of Beams under Repeated Loads, Yuhshi Fukumoto and Hiroshi Yoshida, ST7:July 69:1443:6668

Deformations of Geometrically Imperfect Beams, Nicholas S. Trahair, ST7:July 69:1475:6682

Design and Analysis of Frames for Stability, Harold Switzky and Ping Chun Wang, ST4:Apr 69:695:6522

Design for Stability in High Rise Buildings, State-of-Art Report 2, Jerome S.B. Iffland, TB:73:II-16-445

Design for the Limit State of Instability, James G. Mac Gregor, TB:73:III-26-936

Design of Laterally Unsupported Timber Beams, David W. Fowler, ST3:Mar 71:881:7995

Dynamic Stability of Thin-Walled Column, Carl H. Popelar, EM3:June 72:657:8978

Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837

Effect of Foundation Rotation, D. Dicke, TB:73:III-23-621

Effect of Major Axis Curvature on I-Beam Stability, Nicholas S. Trahair and Scott T. Woolcock, EM1:Feb 73:85:9548

Effect of Shear and Load Behavior on Ring Stability, C. V. Smith, Jr. and G. J. Simitses, EM3:June 69:559:6607

Effect of Weight on Large Deflections of Arches, J. Stewart Kennedy and Anand S. Aggarwal, EM3:June 71:637:8165

Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914

Efficient Frame Design for Stability Constraints, Karl M. Romstad and Karl H. Runge, TN: EM6:Dec 74:1286:107979

Elastic Lateral Buckling of Portal Frames, Porpan Vacharajittiphan and Nicholas S. Trahair, ST5:May 73:821:9720

Elastic Lateral Buckling of Stepped I-Beams, Nicholas S. Trahair and Sritawat Kitipornchai, ST10:Oct 71:2535:8445

Elastic-Plastic Instability of Multi-Story Frames, Sriramulu Vinnakota, TB:73:II-16-568

Elastic Stability of Continuous Beams, Nicholas S. Trahair, ST6:June 69:1295:6632

Elastic Stability of Cylindrical Shells Under External Pressure, Cary K.K. Mak, Luis E. Amaya and Harry C. Saxe, CEO-II:70:535

Elastic Stability of Symmetrical Single-Bay Frames, D. Melville Porter, TN: ST8:Aug 70:1857:7446

Elastic Stability of Tapered I-Beams, Sritawat Kitipornchai and Nicholas S. Trahair, ST3:Mar 72:713:8775

Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525

Ellet's Contribution to the Development of Suspension Bridges, Emory L. Kemp, PP3:July 73:331:9872

The Equivalent-Beam Approach in Tall Buildings Stability Analysis, Erol Yarimci, TB:73:II-16-553

An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263

Experimental Study of Flexural-Torsional Buckling, Alois J. Hartmann, ST7:July 70:1481:7414

Face Wrinkling of Sandwich Plates and Cylinders, Yau-Cheung Wong and Peter George Hoadley, EM4:Aug 71:1071:8281

Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12:Dec 72:2647:9407

Flood Wave Modification Along Prismatic Channels, Giampaolo DiSilvio, HY5:Sept 69:1589:6777

Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343

Further Studies of Inelastic Beam-Column Problem, Wai F. Chen, ST2:Feb 71:529:7922

General Analysis of Laterally Loaded Beam-Columns, Francois Cheong Siat Moy, ST6:June 74:1263:10625

General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776

General Solution of Inelastic Beam-Column Problem, Wai F. Chen, EM4:Aug 70:421:7482

Geometrically Nonlinear Finite-Element Analysis, Carlos A. Brebbia and Jerome J. Connor, EM2:Apr 69:463:6516

Graphical Stability Analysis of Slopes in Jointed Rock, Klaus W. John, SM2:Mar 68:497:5865

Hydraulics and Sedimentary Stability of Coastal Inlets, Morrough P. O'Brien and Robert G. Dean, CE13:72:II-761

Hydrodynamical Stability of Salt Wedge, Fang A. Lee, HY1:Jan 74:17:10276

Hydrodynamic Effects of Seepage on Bed Particles, Gary Z. Watters and Manam V.P. Rao, HY3:Mar 71:421:7973

Inelastic Analysis of Multistory Multibay Frames, Ronald J. Alvarez and Charles Birnstiel, ST11:Nov 69:2477:6922

Inelastic Buckling of Axisymmetric Shells, James C. Hayes and Lawrence H.N. Lee, EM6:Dec 70:1107:7765

Inelastic Buckling of Spherical Shells, Leo J. Galletta and Nicholas F. Morris, EM4:Aug 74:795:10761

Inelastic Finite Deformation of Planar Frames, Raouf A. Ridha and Lawrence H. N. Lee, EM3:June 71:773:8198

Inelastic Flange Buckling of Curved Plate Girders, Charles G. Culver and Ghulam A. Nasir, ST4:Apr 71:1239:8072

Inelastic Flexural-Torsional Buckling, Alois J. Hartmann, EM4:Aug 71:1103:8294

Inelastic Lateral Buckling of Restrained Beams, Hiroshi Yoshida and Yoshihiro Imoto, EM2:Apr 73:343:9666

Inelastic Spatial Stability of Restrained Beam-Columns, Sriramulu Vinnakota and Pentti Aysto, ST11:Nov 74:2235:10919

Inelastic Stability of Beams under Biaxial Bending, Chesada Kasemset, Fumio Nishino and Seng-Lip Lee, EM5:Oct 74:965:10881

Inelastic Stability of Unbraced Building Frames, Chitti Vijakkhana, Fumio Nishino and Seng-Lip Lee, ST3:Mar 74:645:10433

The Influence of Breaker Type on Riprap Stability, John P. Ahrens, 12CEC:71:1557

In-Plane Bending and Buckling of Arches, Walter J. Austin, ST5:May 71:1575:8130

Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101

Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455

Lateral Stability of Plane Open-Web Structures, P. C. Varghese, ST11:Nov 74:2223:10924

Lateral Stability of Wood Beam-and-Deck Systems, John J. Zahn, ST7:July 73:1391:9829

Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949

Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439:10232

Load Carrying Capacity of Simple Composite Columns, J. W. Roderick and D. F. Rogers, ST2:Feb 69:209:6412

Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825

Local Instability of Horizontally Curved Members, Charles G. Culver and Ralph E. Frampton, ST2:Feb 70:245:7079

Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301

Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011:10064

Lumped Parameter Model for Stability Analysis, Walter D. Pilkey and Kevin J. O'Connor, TN: ST7:July 73:1702:9828

Method of Analysis of Laterally Loaded Columns, Francois Cheong Siat Moy, ST5:May 74:953:10548

Methods of Performing and Interpreting In Situ Shear Tests, Michael L. Haverland and Edward J. Slebir, RM13:72:107

Minimum Weight Design with Stability Constraint, Mehdi S. Zarghamee, ST8:Aug 70:1697:7486

Nonlinear Analysis of Elastic Framed Structures, Jerome J. Connor, Robert D. Logcher and Shing-Ching Chan, ST6:June 68:1525:6011

Nonlinear Structural Analysis by Energy Search, Robert H. Mallett and Lucien A. Schmit, Jr., ST3:June 67:221:5285

Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263

Numerical Method for Elastic Stability Problems, Chiyyarath V. Girijavallabhan, ST11:Nov 71:2691:8530

A Numerical Technique for Elastica Problems, John V. Huddleston, EM5:Oct 68:1159:6182

Observational Data on Ground Movements Related to Slope Instability, Stanley D. Wilson, SM5:Sept 70:1519:7508

Optimal Design for Prescribed Buckling Loads, Kalayya Narayana Murthy and Paul P. Christiano, ST11:Nov 74:2175:10912

Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199

Pile Stability, Part 1 -- Elastic Soil, Peter J. Hoadley, GT74:June 74:225

Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73:485:10179

Planning and Desing of Tall Buildings, Lynn S. Beedle, Chmn. and Le-Wu Lu, Chmn., TB:74, 5200pp.

Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255

Plastic Buckling Of Point-Loaded Spherical Shells, Stephan S-K Wang and Sanford B. Roberts, EM1:Feb 71:77:7930

Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279

Plastic Design of Coupled Frame-Shear Wall Structures, Peter F. Adams and James G. MacGregor, ST9:Sept 70:1861:7505

Polynomial Stiffness Coefficients, Jacob Gluck, TB:73:II-16-593

Post-Buckling Behavior of Determinate Beams, Scott T. Woolcock and Nicholas S. Trahair, EM2:Apr 74:151:10471

Post-Buckling of Geometrically Imperfect Plates, Ralph G. Dawson and Alastair C. Walker, ST1:Jan 72:75:8630

Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311

Reinforced Earth Steel Retaining Walls Used on High Steep Side Slopes in France, Henri Vidal, CE:Feb 70:72

Response of Nonlinear Beams and Plates to Ponding, Ahmed E. Salama and Martin L. Moody, EM1:Feb 69:195:6402

Response of Slender Columns to Rapid Compression, Martin L. Moody, EM1:Feb 69:211:6403

The Rheology of Fresh Concrete, Alistair G.B. Ritchie, CO1:Jan 68:55:5752

Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603:9191

Rock Stabilization at Morrow Point Power Plant, Gilbert L. Brown, Ernest D. Morgan and Jerry S. Dodd, SM1:Jan 71:119:7820

Rotation Capacity of Beams Under Moment Gradient, A. F. Lukey and Peter F. Adams, ST6:June 69:1173:6599

Scale and Boundary Effects in Foundation Analysis, James Graham and John Gordon Stuart, SM11:Nov 71:1533:8510

Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128

Sediment Routing in Irrigation Canal Systems, Khalid Mahmood, IR1:Mar 74:49:10401

Seepage Effect on Channel Bank Stability, Philip H. Burgi and Susumu Karaki, IR1:Mar 71:59:7968

Self-Stabilizing Tendencies of Alluvial Channels, Johannes Gessler, WW2:May 70:235:7263

Shallow Circular Vaults, James F. Dickie and Peter Broughton, EM1:Feb 73:1:9520

Sidesway Instability of Unbraced Tube Buildings, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-598

Sill-Controlled Flow Transitions and Extent of Erosion, Walter Rand, HY4:Apr 70:927:7212

Simple Interaction Equations for Beam-Columns, Wai F. Chen and Toshio Atsuta, ST7:July 72:1413:9020

Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106

Snap-Buckling of Shallow Prestressed Arches, Rodney J. Clifton, EM6:Dec 70:1157:7749
Soil Arching in Slopes, Wen L. Wang and Bing C. Yen, GT1:Jan 74:61:10300
Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141
Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913:8253
Stability Criteria for Open-Channel Flow, Themistocles A. Dracos and Bard Glenne, HY6: Nov 67:79:5566
Stability Criteria for Shallow Arches, James F. Dickie and Peter Broughton, EM3:June 71:951:8217
Stability of Asymmetric Structures—Research Needs, Peter F. Adams, ST11:Nov 74:2271:10960
Stability of Braced and Unbraced Frames, James H. Davison and Peter F. Adams, ST2:Feb 74:319:10371
Stability of Cellular Cofferdams Against Vertical Shear, Melvin I. Esrig, SM6:Nov 70:1853:7654
Stability of Columns Subject to Impulsive Loading, Siegfried M. Holzer and Robert A. Eubanks, EM4: Aug 69:897:6734
Stability of Cylindrical Shells under Random Excitation, John A. Lepore and Robert A. Stoltz, EM3:June 74:531:10628
Stability of Existing Dam Foundations, Jacob F. Redlinger, IMROD:Sept 73:677
Stability of Framed Structures, Moshe F. Rubinstein and Richard M. Pickett, Jr., TN: EM2:Apr 73:429:9641
Stability of Frames and Shear Walls, Gert Konig, Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613
Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683
Stability of Hyperboloidal Cooling Tower, Henry L. Langhaar, Arthur P. Boresi, Robert E. Miller and Jerry J. Bruegging, EM5:Oct 70:753:7635
Stability of Laminar Flow at Seabed, John F.A. Sleath, WW2:May 74:105:10512
Stability of Monosymmetric Beams and Cantilevers, John M. Anderson and Nicholas S. Trahair, ST1: Jan 72:269:8646
Stability of Novel Building Systems, State-of-Art Report 5, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-499
Stability of Old Dams as Related to Their Foundations, Karl V. Taylor, IMROD:Sept 73:688
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
Stability of Oscillations in Simple Surge Tank, Eugen Ruus, HY5:Sept 69:1577:6773
Stability of Overall Structural Systems, S. Hal Iyengar, TB:73:II-16-564
Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, Alexander Popoff, Jr., TB:73: III-23-571
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
Stability of Shells by Parametric Differentiation, S. K. Radhamohan, Achyut V. Setlur and John E. Goldberg, ST6:June 71:1775:8216
Stability of Slurry Trench Cuts in Saturated Clay, George G. Meyerhof, PES:72:I-1451
Stability of Spaceframes, Mehdi S. Zarghamee and Jayant M. Shah, EM2:Apr 68:371:5878
Stability of Structures on Permeable Foundations, Satya P. Garg and Amrik S. Chawla, HY4:July 69:1095:6648
Stability of Three Dimensional Building Frames, State-of-Art Report 4, Peter F. Adams, TB:73:II-16-483
Stability of Unbraced Single-Bay Multistory Frames, Adel Helmy Salem, ST2:Feb 73:223:9552
Stability of Water Cooled Columns, Atle Gjelsvik, EM4:Aug 71:1205:8335
Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242
Stability, Summary Report, A. Carpena, TB:73:II-16-605
Stability, Summary Report, Boris Bresler, TB:73:III-23-631
Stability, Theme Report, George Winter, TB:73:II-16-409
Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Strength and Behavior of an Inelastic Hybrid Frame, Peter Arnold, Peter F. Adams and Le-Wu Lu, ST1: Jan 68:243:5759
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593:8143
Stress Path Method, T. William Lambe, ST6:Nov 67:309:5613
Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Structural Failures, Jack R. Janney, STF:73:11
Subassemblage Technique for Asymmetric Structures, William R. Hibbard and Peter F. Adams, ST11:Nov 73:2259:10132
Substation Over Old Mine Gets Firm Footing, James A. Collins, CE:Dec 73:41
Sway in Structures, Maxwell G. Lay, TB:73:II-16-590
Theories of Closure of Rockfill Dams, John A. Sandover, CO2:Nov 71:313:8542
Torsional-Flexural Buckling of Thin-Walled Sections Under Eccentric Load, Teoman B. Pekoz and George Winter, ST5:May 69:941:6571
Torsionally Stiff Columns under Eccentric Loads, Donald R. Sherman and Donald E. Lukas, ST2:Feb 70:335:7090
Trial Load Analyses Confirm Arch Dam Model Tests, Archie A. Stone and Gurmukh S. Sarkaria, PO2:Oct 67:37:5503
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
Ultimate Strength of Biaxially Loaded Steel H-Columns, Wai F. Chen and Toshio Atsuta, ST3: Mar 73:469:9613
Ultimate Strength of Multistory Steel Rigid Frames, Sviatoslav Liapunov, ST8:Aug 74:1643:10750
Unbraced Multistory Steel Frames with Wind Load, E. Whitman Wright, ST1:Jan 72:185:8633
Velocities Above Rough Bed in Oscillatory Flow, John F.A. Sleath, WW4:Nov 74:287:10930

Stability Analysis
Analyses and Performance of a Dike on Fibrous Peat, Igor Holubec and Ronald E. Langston, PES: 72:I-415
Analyses and Records -- Dutch Hollow Dam, Kenneth H. Kastman, PES:72:I-285
Failure of a Test Embankment on Sensitive Clay, Oscar Dascal, J. P. Tournier, Francois A. Tavenas and Pierre La Rochelle, PES:72:I-129
Field Test of Debris Fill Over Soft Soil, Henry T. Taylor and Albert L. Buchignani, PES:72:I-395
General Slope Stability Analysis, James M. Bell, SM6:Nov 68:1253:6222
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023
The Rupture Figure for a Double Wall Cofferdam, B. K. Mazurkiewicz, PES:72:I-1271
Seismic Response of Soil Deposits Underlain by Sloping Rock Boundaries, Houshang Dezfulian and H. Bolton Seed, SM6:Nov 70:1893:7659
Stability of Rock Slopes, A Three-Dimensional Study, Pierre Londe, Gaston Vigier and Raymond Vormeringer, SM1:Jan 69:235:6363
Stability of Rock Slopes-Graphical Methods, Pierre Londe, Gaston Vigier and Raymond Vormeringer, SM4:July 70:1411:7435
Stability of Trenches Filled with Fluids, Kevin L. Nash, CO4:Dec 74:533:11006
Study of Five Embankment Failures on Soft Soils, Georges Pilot, PES:72:I-81

Test Embankment on Sensitive Clay, Charles C. Ladd, PES:72:I-101
Test Fills to Failure on the Soft Bangkok Clay, Ove Eide and Soren Holmberg, PES:72:I-159

Stability Criteria
In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72:899:9202

Stabilization
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472
Enteric and Pathogenic Bacteria Dieoff Effects by Algae, E. M. Davis, M. Pen and Earnest F. Gloyna, NSCD:71:539
Faecal Bacterial Kinetics in Stabilization Ponds, Gerrit v.R. Marais, EE1:Feb 74:119:10323
Finite Element Analysis of Pile-Supported Pavement Structures, Raman Pichumani, John E. Crawford and George E. Triandafilidis, TE2:May 74:293:10516
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, NSCD:71:515
Lime Reclaims Unstable Interior Subgrade During Construction, James M. Sheahan, CE:June 72:74
Norwood Dam Foundation Stabilization: A Case History, John C. Matte, IMROD:Sept 73:697

Stadiums
Artificial Playing Surface, Jim Clifton, CEWAU:74:90
Auto Race Facility: Tracks for Indianapolis, Grand Prix, Dragsters-All in One, George J. Mim Mack and Karl B. Brown, CE:May 71:39
The Baseball Diamond -- A Gridiron's Best Friend, Thomas C. Kavanagh, CEWAU:74:81
Cable Suspended Roof for Munich Olympics, Fritz Leonhardt and Jorg Schlaich, CE:July 72:41
Commentary, Bernard P. Monahan and Reuben Samuels, CEWAU:74:78
The Louisiana Superdome; World's Most Versatile Building, Mark C. Carrigan, CE:Nov 74:50
Professional Athletics -- Introduction, M. D. Morris, CEWAU:74:73
Reticulated Space Structures, James O. Crooker and Kenneth P. Buchert, ST3:Mar 70:687:7180
The Yankee Stadium, Alfred C. Maevis, CEWAU:74:86

Stainless Steel
Bolted and Welded Stainless Steel Connections, Samuel J. Errera, Daniel W. Popowich and George Winter, ST6:June 74:1279:10618

Stains
Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773

Stairs
Energy Cost and Stair Design: A Preliminary Report, John A. Templer and Paul J. Corcoran, MTI:May 72:67
Human Responses to Stairways, Walkways and Ramps: Some Recent Findings, John A. Templer, BP73:Dec 73:137
Photoelastic Analysis of Free-Standing Stairs, K. Chandrashekhara and S. P. Srinivasan, TN: ST12: Dec 72:2836:9400

Stairways
Energy Cost and Stair Design: A Preliminary Report, John A. Templer and Paul J. Corcoran, MTI:May 72:67
Human Responses to Stairways, Walkways and Ramps: Some Recent Findings, John A. Templer, BP73:Dec 73:137
Photoelastic Analysis of Free-Standing Stairs, K. Chandrashekhara and S. P. Srinivasan, TN: ST12: Dec 72:2836:9400

Standard Deviation
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346

Standardization
Site Related Design Considerations for Standardized Nuclear Power Plant Design, Edward A. Sweeney, SDNPF:Dec 73:415

Standards
Are Individual Current-Meter Ratings Necessary, George F. Smoot and Rolland W. Carter, HY2:Mar 68:391:5848
Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182
Channel Rectification Engineering Survey Program, John M. Shields, SU1:May 71:61:8119
Civil Airport Design Criteria, Edwin W. Harn, TE1: Feb 69:13:6385
Commentary on Structural Standards, Summary Report, Ira Hooper, TB:73:II-13-147
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Engineering Computer Program Documentation Standards, G. Andrew Reti, Chmn., SM3:Mar 73:249:9614
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125:9697
Federal Drinking Water Standards - Past, Present, and Future, James H. McDermott, EE4:Aug 73:469:9924
Guide to Development and Use of Electronic Computer Programs: Documentation, Francis E. Swain, ST9:Sept 69:1825:6760
Hurricane Exposes Structural Flaws, Herbert S. Saffir, CE:Feb 71:54
Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, ST9:Sept 74:1789:10779
Implications of the New ACI Building Code, Edward Cohen, CE:Aug 72:47
Incorporating Highway Safety into Level of Service, Walter J. Diewald, TE2:May 74:417:10557
International Standards on Steel, Albert J. Oudheusen, TB:73:II-13-135
Introduction to Section I: Problem Definition, Daniel Brand, UTI:71:1
Japanese Structural Standards for Reinforced Concrete Buildings, Masahide Tomii, TB:73:III-20-125
Limit States of Composite Structures, Duiliu Sfintesco, TB:73:II-19-895
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728
Passenger Design Standards for Bay Area Rapid Transit Stations, Wilmot R. McCutchen, MTI:May 72:197
Planning's Role in Standards for Future Highways, Ralph D. Brown, Jr., TE2:May 71:227:8129
Practical Applications of Codes in Construction of Pipelines, David R. Williams, Jr., TE4:Nov 70:471:7657
Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131
Quality Control of Concrete in Germany, Manfred Stiller, TB:73:Ib-9-897
Rationale of Standards for Use of Reclaimed Water, Herbert B. Foster, Jr. and William F. Jopling, SA3: June 69:503:6609
Regional Water Quality Standards, Ralph Porges, SA3:June 69:423:6596
Report on Small Craft Harbors, George T. Treadwell, 1970, 139 pp.
Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, N. P. Melnikov, TB:73:II-13-121

Septic Tank Systems, Joseph A. Cotteral, Jr. and Dan P. Norris, SA4:Aug 69:715:6735
Some Historical Statistics Related to Future Standards, Paul M. Berthouex, EE2:Apr 74:423:10468
South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, Nilo Andrade Amaral, TB:73:III-20-57
Specifying Structural Concrete for Buildings, Sidney Freedman, CE:Nov 73:68
Standards for Steel Construction in the United States, State-of-Art Report 1, William A. Milek, Jr., TB:73:II-13-13
Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51
The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700
Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87
Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
Will Air Pollution Regulations Change Commuting Patterns?, William D. Ruckelshaus, CE:Sept 71:86

Standing Waves
Limiting Condition for Standing Wave Theories by Perturbation Method, Yoshito Tsuchiya and Masataka Yamaguchi, 12CEC:71:523
Pressures of Partial Standing Waves on Vertical Walls, Shoshichiro Nagai, WW3:Aug 68:273:6054
Pressures of Standing Waves on Vertical Wall, Shoshichiro Nagai, WW1:Feb 69:53:6408
Pressure Upon Vertical Wall from Standing Waves, V. K. Shtencel, CE13:72:III-1649
Pressure Upon Vertical Walls from Overtopping Waves, M. E. Plakida, CE13:72:III-1661
Reflection and Transmission for a Porous Structure, Hideo Kondo and Satoshi Toma, CE13:72:III-1847
Relations Between the Run-Up and Overtopping of Waves, Shoshichiro Nagai and Akira Takada, CE13:72:III-1975
Resolution of Partial Clapotis, William James, TN:WW1:Feb 70:167:7049
Seiches and Other Causes of the Motion of Ships Already Moored, Basil W. Wilson, BMS:71:1
Seiches and Other Causes of the Motion of Ships Already Moored, John T. O'Brien, BMS:71:20
Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4:Nov 72:443:9318
Standing Waves in Front of a Sloping Dike, Nobuo Shuto, CE13:72:III-1629

State Government
Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127
Dam Safety Program in Pennsylvania, Clifford H. McConnell, IMROD:Sept 73:139
Experience and Problems with Dams in Idaho, A. Kenneth Dunn, IMROD:Sept 73:100
Experience and Problems with Dams in Texas, John R. Clarke, IMROD:Sept 73:105
Opportunities in Changing Federal System, Larry Rice, UP1:Mar 74:73:10423
States' Experience and Their Problems, Robert B. Jansen, IMROD:Sept 73:77
States' Experiences in Dam Safety Regulations, Clifford J. Cortright, IMROD:Sept 73:86
Statewide Management -- What Does the Future Hold?, Frank A. Butrico and James B. Coulter, CWFE:Mar 71:93

State Governments
Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739

State Jurisdiction
Statewide Water Quality Control Management, Kerry W. Mulligan, CWFE:Mar 71:105

Statically Determinate Structures
Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043:9195

Statically Indeterminate Structures
Automated Design Of Statically Indeterminate Frames, Dag Kavlie and Johannes Moe, EC5:70:27
Deep Beam on Statically Indeterminate Supports, Prabhakara Bhatt, EM4:Aug 73:793:9902
Efficient Reanalysis of Modified Structures, EC5:70:619

Static Loads
Bolted Joints Under Sustained Loading, Verl Lobb and Floyd Stoller, ST3:Mar 71:905:7996
Dead, Live and Construction Loads, State-of-Art Report 3, Sidney M. Johnson, TB:73:Ib-5-59
Loadings on Buildings, State-of-Art Report 2A, G. R. Mitchell, TB:73:Ib-5-19
Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, Kristoffer Apeland, TB:73:Ib-5-85
Three-Dimensional Analysis of Shear Wall Buildings to Lateral Load, Jayanta K. Biswas and Wai K. Tso, ST5:May 74:1019:10537

Static Pile Formula
Design of Deep Penetration Piles for Ocean Structures, Bramlette McClelland, GT7:July 74:705:10665
Problems in Design and Installation of Offshore Piles, Bramlette McClelland, John A. Focht, Jr. and William J. Emrich, SM6:Nov 69:1491:6913

Static Pressure
Study of Pipe with Concrete Bedding-Part II, Harvey C. Olander and Gordon G. Robertson, TE1:Feb 70:25:7087

Statics
Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449

Static Stability
Static and Dynamic Stability of an Imperfect Beam, Jorn S. Hansen and John Roorda, EM2:Apr 73:271:9647
Ultimate Static Strength of Plate Girders from Tests, Max A.M. Herzog, ST5:May 74:849:10530

Static Structural Analysis
Cantilever Cylindrical Shells Under Assumed Wind Pressures, S. Gopalacharyulu and D. J. Johns, EM5:Oct 73:943:10085
Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
Rapid Design of Tapered Rigid Frames, Duane S. Ellifritt, CE:July 72:45

Static Tests
Electric Penetrometer For Site Investigations, Jacobus de Ruiter, SM2:Feb 71:457:7907
Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213
Static Cone to Compute Static Settlement Over Sand, James K. Mitchell, SM3:May 70:1011:7302
Unsymmetrical Yield Point Loads of Spherical Domes, Archibald N. Sherbourne and John Schroeder, EM3:June 68:823:6004

Statistical Analysis
Air Traffic Simulation, One and Two-Runway Airports, Stephen Hall, TE1:Feb 74:221:10342
Analysis of Hurricane Tides at Padre Island, Texas, Frank D. Masch, Robert J. Brandes, Floyd R. Hill and William A. White, 12CEC:71:2031
Analysis of Water Temperature Variations in Large River, Veerasamy Kothandaraman, SA1:Feb 71:19:7908

An Approach to an Off-Shore Wave Climatology, J. A.W. McCulloch, CE13:72:I-145
Assessing Impact of Urban Transportation, David E. Boyce, TE3:Aug 72:645:9111
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1: July 72:93:9053
Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
Bidding Stratagies and Probabilities, Marvin Gates, CO1:Mar 67:75:5159
Buckling of Columns with Random Initial Displacements, Michael C. Bernard and John L. Bogdanoff, EM3:June 71:755:8194
Characterization of Time-Varying Organic Loads, Alfred T. Wallace and Donald M. Zollman, SA3: June 71:257:8167
Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
Compilation of Ocean and Lake Wave Statistics, John Simpson Hale, 12CEC:71:217
Confidence Intervals for Ocean Wave Spectra, Leon Emry Borgman, CE13:72:I-237
Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
Decision Criteria for Using Stochastic Hydrology, George K. Young, Jr., Gerald T. Orlob and Larry A. Roesner, HY4:Apr 70:911:7209
Decision Theory Applied to Settlement Predictions, Joseph I. Folayan, Kaare Hoeg and Jack R. Benjamin, SM4:July 70:1127:7390
Depth-Integrating and Dip Samplers, Walter G. Knisel and Ralph W. Baird, HY2:Feb 70:497:7084
Distributions of Extreme Winds Over Oceans, Herbert C.S. Thom, WW1:Feb 73:1:9556
Dynamics of Correlated Random Pulse Trains, Shih-Chi Liu, EM4:Aug 70:455:7490
Earthquake Response Statistics of Nonlinear Structures, Shih-Chi Liu, EM2:Apr 69:397:6507
Earthwork Quantities by Random Sampling, Marvin Gates and Amerigo Scarpa, CO1:July 69:65:6681
Eigenvalue Uncertainty in Stressed Structures, Gary C. Hart, EM3:June 73:481:9780
Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
Estimation of Wave Statistics from Spectral Information, Yoshimi Goda, WAVES:Sept 74:320
Evaluation of Barometric Leveling, James D. Gruendler, James L. Clapp and Paul R. Wolf, SU1: Apr 70:1:7195
Expected Value of Ultimate Load Factor, Alberto Castellani, TN: ST2:Feb 73:291:9545
Extreme Wave Statistics for Delaware Coastal Waters, Cheng Y. Yang, Mehmet Aziz Tayfun and George Chia-Chu Hsiao, WAVES:Sept 74:352
Fatigue Reliability and Design, James T.P. Yao, ST9: Sept 74:1827:10782
First Passage of Nonstationary Random Processes, Ross B. Corotis, Erik H. Vanmarcke and C. Allin Cornell, EM2:Apr 72:401:8816
Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72: 1773:9294
Friction Factors and Bed Forms in Fluvial Channels, David Squarer, HY4:Apr 70:995:7245
Grid Turbulence in Initally Turbulent Water Flow, M. H. Abdul Khader and K. Elango, EM6:Dec 74: 1149:11003
Grouping Algorithms for Statewide Loadmeter Surveys, Shiva K. Pant and Frederick J. Wegmann, TE3:Aug 71:421:8288
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Hourly Rainfall Synthesis for a Network, Delbert D. Franz, HY9:Sept 71:1349:8375
Impact from Railway Loading on Steel Girder Spans, William G Byers, ST6:June 70:1093:7341
Implementation of Foundation Design Criteria, Joseph L. Ehasz, Jr. and M. Temchin, SDNPF:Dec 73:99
Improving Manual Solid Waste Separation Studies, Paul W. Britton, SA5:Oct 72:717:9234
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
Lagrangian Characteristics of Surface Turbulence, Eggert Hansen, HY7:July 72:1255:9008
Live Load Effects in Office Buildings, Robin K. McGuire and C. Allin Cornell, ST7:July 74:1351: 10660
Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340
Making Decisions in the Face of Uncertainty, Jack R. Benjamin, IMROD:Sept 73:356
Maximum Potential Evapotranspiration Frequency - East Central U.S., J. L. McGuinness and Leslie H. Parmele, IR2:June 72:207:8943
Methodes de Mesure et Traitement de la Houle, Rene Bonnefille, CE13:72:I-315
Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3: June 72:561:8958
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998
Monte Carlo Study of Seismic Structural Safety, Paul H. Wirsching and James T. P. Yao, ST5:May 71: 1497:8118
More Efficient Local Rural Road Administration, William D. Berg, TE4:Nov 74:975:10942
Multivariate Study of Refuse Collection Efficiency, Lawrence J. Partridge, Jr. and Joseph J. Harrington, EE4:Aug 74:963:10729
Multivariate Techniques for Water Quality Analysis, Jerome L. Mahloch, EE5:Oct 74:1119:10840
New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93: 8981
Nomographs For Some Cumulative Frequency Distributions, Frederic T. Mavis, TN: HY10:Oct 70:2177:7575
Nonlinear Parameter Estimation in Water Quality Modeling, J. S. Shastry, Liang-tseng Fan and L. E. Erickson, EE3:June 73:315:9798
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72: 1343:9119
Peak Flood Discharge Confidence Limits, Richard M. Shane and Walter R. Lynn, HY1:Jan 69:161: 6329
Photogrammetry for Right-of-Way Acquisitions, Edward H. Sokolowski, SU1:Jan 68:49:5735
Planning Major Activity Center Distributor Systems, Michael J. Demetsky and Lester A. Hoel, TE1:Feb 74:237:10319
Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123
Predicting Sediment Yield in Western United States, Elliott M. Flaxman, HY12:Dec 72:2073:9432
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034
Probabilistic Analysis and Design of a Retained Wall, Kaare Hoeg and Ramesh P. Murarka, GT3:Mar 74: 349:10436
Probabilistic Response Analyses to Earthquakes, R. Narayana Iyengar and Kashi T. Sundara Raja Iyengar, EM3:June 70:207:7321
Probability Distribution of Annual Droughts, Eratakulan S. Joseph, IR4:Dec 70:461:7727
Probability Distributions for Hurricane Effects, Larry R. Russell, WW1:Feb 71:139:7886
Probability, Statistics and Decision-Making for Civil Engineers, by Jack R. Benjamin and C. Allin Cornell (Book Review), John A. Blume, CE:Jan 71: 12
Problems Associated with Planning BOD Experiments, Paul M. Berthouex and William G. Hunter, SA3:June 71:333:8202
Procurement and Analysis of Structural Fatigue Data, Harold S. Reemsnyder, ST7:July 69:1533:6693
Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, Francis J. Principe, TB:73:Ib-9-807
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733

Random Processes for Earthquake Simulation, Roy Levy, Frank Kozin and Robert B.B. Moorman, EM2:Apr 71:495:8057

Relaxation Tests on Alloy Steel Bars, Murray A. Muspratt, ST5:May 71:1533:8128

Reliability Analysis of Frame Structures, John D. Stevenson and Fred Moses, ST11:Nov 70:2409:7692

Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6:Dec 71:1625:8584

Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832

Risk Evaluations for Offshore Structures, Peter W. Marshall, ST12:Dec 69:2907:6981

Runoff Forecasting By Variable Transformation, Mikio Hino, HY4:Apr 70:871:7203

Runoff Forecasts by Linear Predictive Filter, Mikio Hino, HY3:Mar 70:681:7146

Safety Aspects of Bicycle Transportation, Paul H. Wright, A. Trent Germano and R. Gary Hicks, BP73:Dec 73:368

Sample Weights in Solid Waste Composition Studies, Albert J. Klee and Dennis Carruth, SA4:Aug 70:945:7469

Sequential Deterministic Optimization in Reservoir Operation, Thomas E. Croley, II, HY3:Mar 74:443:10426

Sequential Stochastic Optimization for Reservoir System, Thomas E. Croley, II, HY1:Jan 74:201:10263

Simulating Effects of Weather on Construction, Neal B.H. Benjamin and Theodore W. Greenwald, CO1:July 73:175:9888

Simulation Model for Flow Augmentation Costs, Armando I. Perez, John C. Schaake, Jr. and Edwin E. Pyatt, HY1:Jan 70:131:7026

Spectral Computations on Pressure Wave Gauge Records, Manuel Mendes de Carvalho, Fernando Silveira Ramos and Carlos de Campos Moraes, 12CEC:71:65

Staging of Improvements to Air Transport Terminals, Angus J. McKenzie, Jack W.E. Huggett and Kenneth W. Ogden, TE4:Nov 74:855:10920

Statistical Analysis of Continuous Data Records, Ross B. Corotis, TE1:Feb 74:195:10362

Statistical Analysis of Live Load in Column Design, Ross B. Corotis, ST8:Aug 72:1803:9123

Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366

Statistical Evaluation of Reaeration Prediction Equations, Linfield C. Brown, EE5:Oct 74:1051:10849

Statistical Experimental Design: BOD Tests, Paul M. Berthouex and William G. Hunter, SA4:Aug 71:393:8286

Statistical Methods in Structural Fatigue, Paul H. Wirsching and James T. P. Yao, ST6:June 70:1201:7377

Statistical Model for Live Floor Loads, Abraham M. Hasofer, ST10:Oct 68:2183:6146

Statistical Prediction of Hurricane Storm Surge, Cheng Y. Yang, A. M. Parisi and William S. Gaither, 12CEC:71:2011

Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358

Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341:9931

Statistical Reliability of Computations Based on Wave Spectral Relations, Leon Emry Borgman, WAVES:Sept 74:362

Statistical Safety Factor Concept for Determining the Probable Maximum Flood, Boris S. Browzin, SDNPF:Dec 73:557

Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289

Statistical Theory in Materials Sampling, Norman J. Cohen, CO1:Mar 71:95:8005

Statistics of Random Loading Relevant to Fatigue, Jann-Nan Yang, EM3:June 74:469:10591

Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209

Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, HY7:July 74:849:10657

Stochastic Analysis of Orthokinetic Flocculation, Perry W. Cockerham and David M. Himmelblau, EE2:Apr 74:279:10446

STOL Passenger Demand in Underdeveloped Areas, Jason C. Yu, TE3:Aug 71:475:8298

Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969

Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907

Structural Response to Sonic Booms, Roland L. Sharpe and Garrison Kost, ST4:Apr 71:1157:8063

Traffic Analysis for Airport Asphaltic Pavements, William A. Wild, Everett C. Carter, Jerome W. Hall and Matthew W. Witczak, TE4:Nov 74:873:10927

Transient Wind Loads on Circular Concave Cable Roofs, Paul P. Christiano, Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966

Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295

User Oriented Approach to Housing Design for Indians, Richard D. Bauman and Arn Henderson, UP1:Mar 74:29:10384

Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514

Waste Generation Models for Solid Waste Collection, Donald Grossman, James F. Hudson and David H. Marks, EE6:Dec 74:1219:11022

Water Quality Models Using the Box-Jenkins Method, Peter M. Huck and Grahame J. Farquhar, EE3:June 74:733:10629

Wave Groups in Ocean Swell, Warren C. Thompson and Raymond C. Smith, Jr., WAVES:Sept 74:338

Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532

Wave Statistics and Rubble Mound Structures, J. Ian Collins, WAVES:Sept 74:486

Wave Statistics for Surfzone Structures, John Simpson Hale, WAVES:Sept 74:453

Statistical Data

Response Function, State-of-Art Report 4, Theodore V. Galambos, TB:73:II-19-861

World's Highest and Largest Dams, T. W. Mermel, CE:July 70:73

Statistical Decision Theory

Safety Analysis of Slopes, Tien H. Wu and Leland M. Kraft, Jr., SM2:Mar 70:609:7174

Seismic Safety of Earth Dams, Tien H. Wu and Leland M. Kraft, Jr., SM6:Nov 70:1987:7686

Statistical Dispersion

Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3:June 72:561:8958

Statistical Distributions

Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366

Statistical Tests

Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962

Statistics

Influence of Current on Statistical Properties of Waves, Chi C. Tung and Norden E. Huang, WW4:Nov 74:267:10922

Statistical Experimental Design: BOD Tests, Paul M. Berthouex and William G. Hunter, SA4:Aug 71:393:8286

Statistics of Random Loading Relevant to Fatigue, Jann-Nan Yang, EM3:June 74:469:10591

Stochastic Model For Sand Dispersion, Chih Ted Yang and William W. Sayre, HY2:Feb 71:265:7892

Steady Flow
Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
Flow Around Inclined Sheet Pile, Annapareddy Siva Reddy, Govinda Chandra Mishra and Kyatsandra Seetharamiah, HY7:July 71:1101:8248
Method of Additional Seepage Resistances—Theory and Application, Tatiana D. Streltsova, HY8:Aug 74:1119:10746
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73:771:9733
Solution of Steady Flow in Open Channels by Graphs, Horace A. Johnson, CE:Dec 70:46

Steady State
Steady Flow Past Flat Plate in Channel, Thomas L. Shaw, HY6:Nov 69:2013:6903

Steam
Cost of Thermal Effluent Standards for Power Plants, Leonard Ortolano and Frank A. Smith, PO1:July 74:15:10649

Steam Electric Power Generation
Wind Influence Upon Cooling Water Circulation, Gerrit Abraham and Rob Koudstaal, PO1:Mar 69:63:6466

Steam Jet Apparatus
Steam Jet Force Decay, R. H. Greenwood, SDNPF:Dec 73:591

Steel
AISC Manual of Steel Construction-New Edition-Book Review, Richard Amron, CE:Dec 70:8
Allowable Bending Stress Design Aid, Allen J. Hulshizer, CE:Feb 70:63
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48
Cyclic Yield Reversal in Steel Building Joints, Egor P. Popov and Bruce R. Pinkney, ST3:Mar 69:327:6441
Design of Hybrid Steel Beams, Report of Subcommittee 1 on Hybrid Beams and Girders, Joint ASCE-AAHSO Committee on Flexural Members, Charles G. Schilling, ST6:June 68:1397:5995
Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steel of Joint ASCE-AASHO Committee on Steel Flexural Members, C. E. Eckberg, Jr., ST9:Sept 68:2033:6112
High Strength Bolts Subject to Tension and Prying, Rajasekharan S. Nair, Peter C. Birkemoe and William H. Munse, ST2:Feb 74:351:10373
"Inquiry into the Basis of Design and Method of Erection of Steel Box-Girder Bridges" by Merrison Committee (Book Review), Roman Wolchuk, CE:Feb 74:26
Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72:1255:8937
Seismic Behavior of Multistory Braced Steel Frames, Subhash C. Goel and Robert D. Hanson, ST1:Jan 74:79:10288
Structural Ground Concept and Wire Fabric Save Time and Money, Don Gehring, CE:Nov 71:50
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Steel Beams
Cold-Formed Steel Members with Perforated Elements, Wei-Wen Yu and Charles S. Davis, ST10:Oct 73:2061:10059
Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790
Inelastic Shear Deflection of Steel Beams, Dale G. Eyre, ST10:Oct 73:1985:10052
Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817

Steel Constituents
Flexural Members with Confined Concrete, Dudley Charles Kent and Robert Park, ST7:July 71:1969:8243

Steel Construction
AISC Manual of Steel Construction-New Edition-Book Review, Richard Amron, CE:Dec 70:8
Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291
Cellular Steel Floors Mature, Eugene E. Dallaire, CE:July 71:70
Composite Steel-Concrete Building Frame, Don Belford, CE:July 72:61
External 'Shell' Stops Soil Movement and Saves Tunnel, Joseph P. Nicoletti and James M. Keith, CE:Apr 69:72
Factor of Safety of Connections, R. Delesques, TB:73:II-19-890
Finite Element Analysis of Hyperbolic Paraboloid Shells, Semih S. Tezcan, Krishna M. Agrawal and George Kostro, ST1:Jan 71:407:7847
Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477
Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591
Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301:9594
Response of Steel Building in Fire, Maxwell G. Lay, TB:73:Ib-8-719
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Steel Detailing
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767

Steel Frames
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
Historical Steel Frame in France, Duiliu Sfintesco, TB:73:Ia-1-268
Plastic Analysis and Design, Summary Report, George C. Driscoll, Jr., TB:73:II-15-399
Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591
Quality Control in Steel Frame Fabrication of Tall Buildings, State-of-Art Report 3, Sansei Miki, Hiroshi Ohba and Toshio Kamei, TB:73:Ib-9-817
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767

Steel Industries
Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380

Steel Linings
Dynamic Behavior of Steel Chimney Liners, Ronald G. Domer, EPCE:Aug 74:97
Dynamic Response of Steel Chinney Liners to Flue Gas Flow, J. J. Deans and J. G. Willmot, EPCE:Aug 74:47
Introduction to the ASCE Recommended Practice for the Design and Construction of Steel Chimney Liners, Robert W. Mikitka and Randy W. Snook, EPCE:Aug 74:41
Modeling Gas Mixing within Steel Chimney Liners, James J. Markowsky, EPCE:Aug 74:137
Thermal Behavior of a 1000 Foot Steel Chimney Liner, Joseph W. Fortey and Raymond R. Funk, EPCE:Aug 74:161

Top-Supported Chimney Liners, Daryoush Motarjemi, EPCE:Aug 74:177

Steel Piles

Corrosion Test of Steel Piling in Sea Water, Laverne L. Watkins, WW3:Aug 71:549:8292
Driving Behavior of Long Steel Piles, Peter Y. Lee, PES:72:I-1259
H-Bearing Piles in Limestone and Clay Shales, William D. Ashton and Paul H. Schwartz, GT7:July 74:787:10667
Khazzan Dubai No. 1: Pile Design and Installation, James A. Wees and Robert S. Chamberlin, SM10:Oct 71:1415:8439
The Performance of a Subway Excavation, T. William Lambe, L. Anthony Wolfskill and Walter E. Jaworski, PES:72:I-1403
Undersea Oil Storage Tank, Robert S. Chamberlin, CE:Aug 70:57

Steel Pipes

Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327
Large Diameter Pipe Under Combined Loading, Jack G. Bouwkamp and R. M. Stephen, TE3:Aug 73:521:9907
Steel Pipe Design—Criteria For Oil, Water, Gas And Slurry Services, William R. DeKeyser, Ralph C. Hughes, L. I. Elder and G. R. Wilson, CE:Mar 74:64
Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574
Vancouver Uses Innovative Ways for Placing Large Submarine Pipelines, Doug McKay, Don Gillis and Robin Durward, CE:Oct 74:74

Steels

Axial Load Design for Concrete Filled Steel Tubes, Robert B. Knowles and Robert Park, ST10:Oct 70:2125:7597
Behavior of Biaxially Loaded Columns, Wai F. Chen, TB:73:II-16-575
Behavior of Prestressed Composite Beams, Ronald S. Reg and Nat W. Krahl, ST6:Dec 67:87:5663
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Bending of Deep Girders with A514 Steel Flanges, Phillip S. Carskaddan, ST10:Oct 69:2219:6839
Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
Commentary on Orthotropic-Deck Bridge Specifications by the Task Committee on Orthotropic Plate Bridges of the Committee on Metals of the Structural Division, Charles G. Schilling, Chmn., ST1:Jan 74:109:10273
Connections in Thin Low-ductility Steels, Asfandiar K. Dhalla, Samuel J. Errera and George Winter, ST10:Oct 71:2549:8442
Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327
Corrugated Metal Flumes, Tadaaki Naruse, OIDS:72:219
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87
Design Criteria for H-Columns under Biaxial Loading, Negussie Tebedge and Wai F. Chen, ST3:Mar 74:579:10400
Design of Beams With Web Openings, John E. Bower, ST3:Mar 68:783:5869
Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
Dynamic Behavior of Steel Chimney Liners, Ronald G. Domer, EPCE:Aug 74:97
Dynamic K_c Testing of Structural Steel, Ronald B. Madison and George R. Irwin, ST7:July 74:1331:10653
Dynamic Response of Steel Chinney Liners to Flue Gas Flow, J. J. Deans and J. G. Willmot, EPCE:Aug 74:47
Economical Design of Prestressed Plate Girder, Miloslav Tochacek and Champa L. Mehta, ST6:June 72:1273:8973
Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851
Factors Affecting Durability of Ferrous Metals in the Atmosphere, Francis L. LaQue, ST11:Nov 69:2385:6890
Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
Fatigue of Bolted High Strength Structural Steel, Peter C. Birkemoe and Ramachandran Srinivasan, ST3:Mar 71:935:7997
Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
Fatigue Strength of Hybrid Plate Girders, A. Anthony Toprac and Murugesam Natarajan, ST4:Apr 71:1203:8069
Fatigue Strength of Rolled and Welded Steel, Manfred A. Hirt, Ben T. Yen and John W. Fisher, ST7:July 71:1897:8238
Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12:Dec 72:2647:9407
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Grain Storage Structures for Food Deficient Areas, Alexander M. Turitzin, ST10:Oct 69:2161:6835
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High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410
Impact of Spheres on Ice, Yin-Chao Yen, Fuat Odar and Lynwood R. Bracy, EM5:Oct 70:641:7607
Inelastic Bar Subjected To Thrust and Cyclic Bending, Ben Kato and Hiroshi Akiyama, ST1:Jan 69:33:6335
International Standards on Steel, Albert J. Oudheusen, TB:73:II-13-135
Introduction to the ASCE Recommended Practice for the Design and Construction of Steel Chimney Liners, Robert W. Mikitka and Randy W. Snook, EPCE:Aug 74:41
Lamellar Tearing of Welded Steel, CE:Dec 73:34
Laminated Wood Beams Reinforced with Steel Strips, Karl B. Borgin, Gerrit F. Loedolff and Gerald R. Saunders, ST7:July 68:1681:6020
Lateral Stability of Welded Light Trusses, John A. Hribar and William P. Laughlin, ST3:Mar 68:809:5873
Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, Y. Yokoo and Hiroshi Akiyama, TB:73:II-17-619
Limits of Usefulness, State-of-Art Report 2, Lars Ostlund, TB:73:II-19-841
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Lower Strength Steel Brittle Fracture Assessment, Mohammed H. Magued and D J. Laurie Kennedy, ST5:May 74:983:10551
Metal Structure Geriatrics, Harry Czyzewski and Earl C. Sutherland, CE:July 69:67
Mini Automobile-shredding Plant for Western Michigan, Charles E. Haltenhoff, CE:Apr 71:55
Minimum Weight Design of Light Gage Steel Members, Paul A. Seaburg and Charles G. Salmon, ST1:Jan 71:203:7830
Minimum Weight Proportions for Steel Girders, Edward C. Holt and Gary L. Heithecker, ST10:Oct 69:2205:6838
Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, Toshiharu Hisatoku and Fujio Nishikawa, TB:73:Ia-3-501

Nonuniform Torsion of Steel Beams in Inelastic Range, Charles R. Farwell and Theodore V. Galambos, ST12:Dec 69:2813:6964
Optimal Design for Prescribed Buckling Loads, Kalayya Narayana Murthy and Paul P. Christiano, ST11:Nov 74:2175:10912
Package Buildings in Steel, Concrete, CE:Aug 74:76
Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255
Plastic Design of Coupled Frame-Shear Wall Structures, Peter F. Adams and James G. MacGregor, ST9:Sept 70:1861:7505
Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72: 1769:9148
Recent Developments in Plastic Design Practice, Lynn S. Beedle, Le-Wu Lu and Lee C. Lim, ST9: Sept 69:1911:6781
Recorded Stress Histories in Railroad Bridges, Freeman P. Drew, ST12:Dec 68:2713:6288
Review of Steel Design Standards in Australia, State-of-Art Report 4B, Maxwell G. Lay, TB:73:II-13-71
Roof Assembled on Ground, Hoisted into Place, Werner Blum and Philip Wesler, CE:Jan 74:44
Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695
Steel Box Girder Makes Handsome Bridge, Jack P. Shedd, CE:May 73:67
Steel Ductility Measurements, Asfandiar K. Dhalla and George Winter, ST2:Feb 74:427:10365
Steel-Encased Expansive Cement Concrete Column, Vitelmo V. Bertero and Saad E. Moustafa, ST11: Nov 70:2267:7660
Steel Highway Accessory Structures, Donovan S. Wolford, ST7:July 71:1991:8255
Strength and Behavior of an Inelastic Hybrid Frame, Peter Arnold, Peter F. Adams and Le-Wu Lu, ST1: Jan 68:243:5759
Strength of Steel Columns with Biaxially Eccentric Load, Satya S. Sharma and Edwin H. Gaylord, ST12:Dec 69:2797:6960
Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, Theodore R. Higgins, TB:73:II-1
Structural Metals-Steel, Roger L. Brockenbrough, CE:Aug 69:35
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
Suggested Steel Ductility Requirements, Asfandiar K. Dhalla and George Winter, ST2:Feb 74:445:10366
Tests on Steel-Frame, Shear-Wall Structures, Sauren N.G. Majumdar and Peter F. Adams, ST4:Apr 71: 1097:8031
Ultimate Strength of Laterally Loaded Columns, Le-Wu Lu and Hassan Kamalvand, ST6:June 68:1505: 6009
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755
1969 AISC Specifications, Theodore R. Higgins, CE: Oct 69:53

Steel Structures

Amphitheater Roof Features Steel Box Sections, Walter P. Moore, Jr., CE:Nov 69:70
Applications, State-of-Art Report 5, Pavel J. Marek, TB:73:II-19-869
Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72: 1069:8911
Book Review: Cold Formed Steel Structures, Donovan S. Wolford, CE:Nov 73:28
Columns Braced by Girts and a Diaphragm, Tamirisa V.S.R. Apparao, Samuel J. Errera and Gordon P. Fisher, ST5:May 69:965:6576
Columns Design in Buildings, State-of-Art Report 1, J. Brozzetti and J. Fourcriat, TB:73:II-16-415
Composite Beam Incorporating Cellular Steel Decking, Hugh Robinson, ST3:Mar 69:355:6447
Cost Optimization of Structural Roof System, Samuel L. Lipson and Alan D. Russell, ST8:Aug 71:2057: 8291
Crestline Apartments, Grigalis & Associates, TB:73: C-P-458
Current Questions, Problems, and Research Needs, State-of-Art Report 2, S. Covarrubias, A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63
Design Concepts for Prestressed Steel Structures, Miloslav Tochacek, TB:73:II-19-883
Design for Stability in High Rise Buildings, State-of-Art Report 2, Jerome S.B. Iffland, TB:73:II-16-445
Design of Steel Transmission Pole Structures, Gene M. Wilhoite, ST12:Dec 74:2449:11009
Development of Response Spectra for a Thin Shell Structure, D. R. Denton, Chung-Tung Shen and C. K. Webster, SDNPF:Dec 73:571
Factor of Safety of Connections, R. Delesques, TB: 73:II-19-890
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
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Horizontally Curved Girders-State of the Art, Paul F. McManus, Ghulam A. Nasir and Charles G. Culver, ST5:May 69:853:6546
Hotel "Intourist" Smolenskaya Square, N. P. Melnikov, TB:73:C-P-240
Inelastic Earthquake Response of Tall Steel Frames, Subhash C. Goel and Glen V. Berg, ST8:Aug 68: 1907:6061
Inspection Practices for Tall Buildings, Lowell A. Napper, TB:73:Ib-9-898
International Standards on Steel, Albert J. Oudheusen, TB:73:II-13-135
Local Plastic Buckling of A514 Steel Members, John F. McDermott, ST9:Sept 69:1837:6761
Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833
Minimum Weight Design Of Light Gage Steel Members, Paul A. Seaburg and Charles G. Salmon, EC5:70:319
Newport Suspension Bridge, Alfred Hedefine and Louis G. Silano, CE:Aug 70:64
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201
One Shell Square, Skidmore, Owings & Merrill, TB: 73:C-P-490
Plastic Bending of A514 Steel Beams, John F. McDermott, ST9:Sept 69:1851:6762
Plastic Design: A Case History, Horatio Allison, CE: Apr 69:61
Preliminary Plastic Design of Tall Steel Frames, M. Bassam El Hafez and Graham H. Powell, ST9:Sept 74:1837:10796
Probabilistic Analysis of Fire Safety, Sven Erik Magnusson, TB:73:Ib-10-1016
Rational Design of Light Gage Beams, Jeffrey L. Bluestein and Atle Gjelsvik, ST7:July 70:1535:7421
Repair of Steel Structures After Fire, Roger H. Wildt, TB:73:Ib-8-688
Severn River Suspension Bridge, Gilbert Roberts, CE: Aug 69:68
Shakedown of Strain-Hardening Structures, John D. Meyer and Kurt H. Gerstle, ST1:Jan 72:95:8641
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870
Spaced Steel Columns, Bruce G. Johnston, ST5:May 71:1465:8109
Standard Oil of Indiana Building in Chicago, E. Alfred Picardi, TB:73:C-P-244
Steel Construction, State-of-Art Report 5A, K. D. Cunningham, TB:73:Ia-4-753
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767
Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, Theodore R. Higgins, TB:73:II-1

Subassemblage Concept for Tall Frame Analysis, Graham H. Powell and M. Bassam El Hafez, ST8: Aug 74:1611:10739
A Tale of Three Tunnels, Thomas R. Kuesel, CE:Dec 74:50
Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793
Testing Transmission Line Belled Auger Footings, Richard S. Saliman, PES:72:I-1501
Thyssenhaus, Hentrich - Petschnigg & Partner, TB: 73:C-P-448
Toronto-Dominion Center, M. I. Gilmore, TB:73:C-P-301
Tour Apogee, Skidmore, Owings & Merrill, TB:73: C-P-486
Ultimate Strength of Multistory Steel Rigid Frames, Sviatoslav Liapunov, ST8:Aug 74:1643:10750
Union Bank, Welton Becket and Associates, TB:73: C-P-326
U.S. Steel Headquarters Building, CE:Apr 70:58
Valley Center, Welton Becket and Associates, TB: 73:C-P-318
Vibrations of Stacks Supported on Steel Structures, Anthony Morrone, ST12:Dec 69:2831:6965
2001 Bryan Street Tower, Neuhaus & Taylor, TB:73: C-P-282

Stereographic Projection
Determination of Perspective Generating Parameters, Walter D. Bernhart, SU2:Sept 68:95:6093
Modified Methods in Numerical Radial Triangulation, Paul R. Wolf and Lloyd T. Bartlett, SU1:Sept 73:121:10028

Stereomapping
Instant Relief With New Stereo Image Alternator, John E. Leonarz, SU2:Sept 70:257:7564
Modified Methods in Numerical Radial Triangulation, Paul R. Wolf and Lloyd T. Bartlett, SU1:Sept 73:121:10028

Stereophotography
Stereophotography of the Sea Surface, An Experiment, L. H. Holthuijsen, M. Tienstra and G. J. v.d. Vliet, WAVES:Sept 74:153

Stiffeners
Stiffening in Tubular Junctions - Some New Concepts, Bharat L. Mehrotra, TN: ST9:Sept 71: 2453:8374

Stiffening
Buckling of Longitudinally Stiffened Sheets, Niels C. Lind, TN: ST7:July 73:1686:9828

Stiffness
Aeroelastic Stability of Unstiffened Suspension Bridges, Daniel Dicker, EM6:Dec 71:1677:8615
Analysis of Biaxially Loaded Steel H-Columns, Sakda Santathadaporn and Wai F. Chen, ST3:Mar 73:491: 9621
Analysis of Composite Prestressed Concrete Beams, Vadaporty Jagannadha Rao and Walter H. Dilger, ST10:Oct 74:2109:10850
Analysis of Rectangular Plates by Stiffness Method, Assad Abdul-Baki and Mudar Jamaluddin, EM3: June 74:547:10613
Bandwidth Minimization of Stiffness Matrices, James G. Crose, TN: EM1:Feb 71:163:7858
Beam Buckling by Finite Element Procedure, C. Philip Johnson and Kenneth M. Will, ST3:Mar 74: 669:10432
Behavior of Howe, Pratt, and Warren Trusses, John D. Renton, ST2:Feb 69:183:6388
Bonded Wood-Concrete T-Beams, George Pincus, ST10:Oct 69:2265:6842
Buckling Analysis of One-Story Frames, Alfred Zweig, ST9:Sept 68:2107:6118
Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), H. Rubin, TB:73:II-17-709
Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603
Concrete Floor Systems, State-of-Art Report 6, Joseph P. Colaco, TB:73:III-21-237
Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157
Continuously Supported Cylindrical-Conical Tanks, Robert S. C. Wang and Phillip L. Gould, ST10:Oct 74:2037:10876
Coupling Beams of Reinforced Concrete Shear Walls, Thomas Paulay, ST3:Mar 71:843:7984
Cracking and Control, Neil Jackson, TB:73:III-24-723
Cracking and Crack Control, Karl Kordina, TB:73: III-24-721
Cracking and Crack Control, State-of-Art Report 1, Peter Gergely, TB:73:III-24-645
Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Deformations Of Pile Supported Structures, S. P. Prawell, Jr. and R. L. Ketter, CEO-II:70:417
Design Methods Based on Stiffness, Summary Report, William J. Le Messurier, TB:73:II-17-715
Design Methods Based on Stiffness, Theme Report, Otto Steinhardt, TB:73:II-17-611
The Development of a Special Instrument for the In Situ Measurement of the Strength and Stiffness of Soils, C. Peter Wroth and John M.O. Hughes, EFSE:Aug 74:295
Drift Criteria, State-of-Art Report 2, Roy G. Johnston, TB:73:II-17-635
Dynamic Anlaysis Of Three-Dimensional Frames, Roger E. Scholl, TN: ST1:Jan 72:401:8619
Efficient Solutions for Linear Matrix Equations, H. Gordon Jensen and Gary A. Parks, ST1:Jan 70:49: 7007
Explicit Triangular Bending Element Matrix, William S. Doyle and Robert L. Harrison, ST7:July 74:1459: 10680
Finite Element Analysis of Reinforced Concrete Slabs, Jan C. Jofriet and Gregory M. McNeice, ST3:Mar 71:785:7963
Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353
Flexural Rigidity of Concrete Column Sectione, Ian C. Medland and Donald A. Taylor, ST2:Feb 71: 573:7933
Flexural Stiffness, James G. Mac Gregor, TB:73:III-24-724
Focal Points of the Studies in Our Design, Kiyoshi Muto, TB:73:C-DM-217
Full Range Analysis of Eccentrically Stiffened Plates, Anton W. Wegmuller, ST1:Jan 74:143:10286
General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776
General Treatment of Structural Modifications, John H. Argyris and John R. Roy, ST2:Feb 72:465:8732
Geometrically Nonlinear Analysis by Stiffness Method, James A. Stricklin, Walter E. Haisler and Walter A. Von Riesemann, ST9:Sept 71:2299:8392
Geometric Nonlinearity in Nonprismatic Members, Cenap Oran, ST7:July 74:1473:10679
High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519
Impulsive Load Stiffness of Flexible Pavements, Nelson M. Isada, SM2:Mar 70:639:7176
Inelastic Behavior Under Cyclic Loading, Egor P. Popov, TB:73:II-15-383
Influence Surfaces for Continuous Plates, Richard E. Woodring and Chester D. Seiss, ST1:Jan 68:211: 5755
Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675
Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, Y. Yokoo and Hiroshi Akiyama, TB:73:II-17-619

Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094
Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671
Nonlinear Stress-Strain Formulation for Soils, Ross B. Corotis, M. Hassan Farzin and Raymond J. Krizek, GT9:Sept 74:993:10811
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Optimum Stiffness and Strength of Elastic Structures, Ernest F. Masur, EM5:Oct 70:621:7580
Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257
Pile Stability, Part 2 -- Non-Elastic Soil, Peter J. Hoadley, GT74:June 74:245
Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653
Polynomial Stiffness Coefficients, Jacob Gluck, TB:73:II-16-593
Prestressed Beams in Torsion, Bending, and Shear, Robert L. Henry and Paul Zia, ST5:May 74:933:10560
Rapid Reduction of Banded Stiffness Matrices, Frederic W. Williams, TN: ST5:May 73:967:9704
Reinforcement for Torque in Spandrel L-Beams, Umakanta Behera, K. S. Rajagopalan and Phil M. Ferguson, ST2:Feb 70:371:7103
The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711
Shear Flexibility and Strength of Corrugated Decks, Eric R. Bryan and Wagih M. El-Dakhakhni, ST1:Nov 68:2549:6218
Shear-Flexible Orthotropic Plates Loaded in Plane, Charles W. Bert and Shyming Chang, EM6:Dec 72:1499:9450
Shear Lag Analysis of Rectangular Full-Width Tube Junctions, Bharat L. Mehrotra and Ashok K. Govil, ST1:Jan 72:287:8665
A Simple Stiff Machine for Testing Rock in Compression, William Hustrulid and Franklin Robinson, RM14:73:61
Soil-Structure Interaction, Ralph B. Peck, PES:73:II-145
Soil-Structure Interaction -- Reporter's Remarks, Gerald W. Clough, PES:73:III-247
Space-Framework Method for Three Dimensional Solids, Alan L. Yettram and Kenneth Robbins, EM6:Dec 67:21:5633
Stability of Overall Structural Systems, S. Hal Iyengar, TB:73:II-16-564
Stability of Spaceframes, Mehdi S. Zarghamee and Jayant M. Shah, EM2:Apr 68:371:5878
Static Wind Loads on Circular Concave Cable Roofs, Gerald R. Seeley, Heinz Stefan and Paul P. Christiano, ST8:Aug 74:1593:10751
Stiffening Effect of Light Cladding, State-of-Art Report 4A, Eric R. Bryan and J. M. Davies, TB:73:II-17-643
Stiffening in Tubular Junctions - Some New Concepts, Bharat L. Mehrotra, TN: ST9:Sept 71:2453:8374
Stiffness and Crack Control, Summary, J. Ferry Borges, TB:73:III-24-727
Stiffness Center Method, Hayrettin Kardestuncer, ST7:July 74:1421:10673
Stiffness Coefficients for Layered Media, Gordon R. Johnson, Howard I. Epstein and Paul P. Christiano, TN: ST7:July 74:1537:10647
Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295:9545
Stiffness Matrix for Plates by Galerkin's Method, Barna A. Szabo and George C. Lee, EM3:June 69:571:6608
Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455
Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
Stiffness Related to Nonstructural Elements, Frank Newby, TB:73:Ia-12-1141
Stiffness Requirements for Lateral Bracing, Bruce R. Mutton and Nicholas S. Trahair, ST10:Oct 73:2167:10086
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705
Strongly Curved Finite Element for Shell Analysis, John W. Leonard and Chin-Tsang Li, EM3:June 73:515:9805
Sustained and Cyclic Loading of Concrete Columns, Jostein Hellesland and Roger Green, ST4:Apr 71:1113:8033
Systematic Design of Multistory Buildings, John F. Brotchie, ST7:July 74:1489:10678
Tangent Stiffness in Plane Frames, Cenap Oran, ST6:June 73:973:9810
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB:73:III-25-793
Thixotropic Behavior of Compacted Clays, Donald H. Gray and Nouri A. Kashmeeri, SM1:Jan 71:193:7857
Three-Dimensional Analysis, Bernardo J. Deschapelles, TB:73:III-24-725
Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, Miguel Carlos Stamato, TB:73:III-24-683
Three-Dimensional Bar Cell for Elastic Stress Analysis, Alexander Hrennikoff and A. Gantayat, EM3:June 70:313:7352
Torsional Stiffness of Embedded Footings, Movses J. Kaldjian, SM7:July 71:969:8241
Transient Wind Loads on Circular Concave Cable Roofs, Paul P. Christiano, Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966
Unbalanced Tensions in Transmission Lines, David B. Campbell, ST10:Oct 70:2189:7622
Vibration Modulus of Normally Consolidated Clay, Bobby O. Hardin and William L. Black, SM2:Mar 68:353:5833
Vogt Boundary for Finite Element Arch Dam Analysis, Gilbert A. Hartley, Gregory M. McNeice and Walter Stensch, ST1:Jan 74:51:10269

Stiffness Matrix

Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
Stiffness-Analysis of Cable-Stayed Bridges, Benjamin E. Lazar, ST7:July 72:1605:9036
Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022

Stiffness Methods

Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73:799:9715
Analysis of Curved Folded Plate Structures, Christian Meyer and Alexander C. Scordelis, ST10:Oct 71:2459:8434
Buckling Loads of Nonuniform Columns, Chiyyarath V. Girijavallabhan, ST11:Nov 69:2419:6908
Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
Efficient Reanalysis of Modified Structures, EC5:70:619
Full Range Analysis of Eccentrically Stiffened Plates, Anton W. Wegmuller, ST1:Jan 74:143:10286
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373
Nonlinear Beam and Plate Elements, Jimmy H. Smith, ST3:Mar 72:553:8768
Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10:Oct 73:2011:10091
Optimum Design by Partitioning into Substructures, Uri Kirsch, Max Reiss and Uri Shamir, ST1:Jan 72:249:8645

Stiffness-Analysis of Cable-Stayed Bridges, Benjamin E. Lazar, ST7:July 72:1605:9036

Stiffness Matrix for Sandwich Folded Plates, G. Michael Folie, ST2:Feb 71:603:7925

A Stiffness Matrix Generator, Richard H. Gunderson and Ayhan Cetiner, EC5:70:595

Tangent Stiffness Matrix for Space Frame Members, Semih S. Tezcan and Bijay C. Mahapatra, ST6:June 69:1257:6627

Stilling Basins

Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7: July 72:1127:9007

Closed Conduit to Open Channel Stilling Basin, Gordon H. Flammer, Gaylord V. Skogerboe and Chi-Yuan Wei, IR1:Mar 70:1:7124

Efficiency of Hydraulic Jump, Satya P. Garg and Hari R. Sharma, HY3:Mar 71:409:7994

Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177: 9794

Flow Through Spillway Flip Bucket, Charles W. Lenau and John J. Cassidy, HY2:Mar 69:633:6478

Fluctuating Pressures in Spillway Stilling Basins, C. Edward Bowers and Frank Y. Tsai, HY6:Nov 69: 2071:6915

Guri Hydroelectric Project Designed for Staged Development, Hans Hasen and P. Palacios H., CE: Dec 71:55

Hydraulic Jump Within Gradually Expanding Channel, Anat Arbhabhirama and Alejandro U. Abella, HY1:Jan 71:31:7831

Modified USBR Impact Basin, Clifford D. Smith and Elias M. Korolischuk, TN: HY1:Jan 73:153:9463

Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, Teh-Yuh Kao and Daniel L Shoemaker, HYB:Aug 73:349

Spillway Redesign Abates Gas Supersaturation in the Columbia River, Hugh A. Smith, Jr., CE:Sept 74:70

Spillway Stilling Basin Repair Using Bonded Concrete and Epoxy Mortar, James R. Graham, OIDS:72:185

Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093

Vortex Suppression in Stilling Pond Overflow, Y. R. Reddy and John Pickford, HY11:Nov 74:1685: 10969

Stirrups

Effects of Reinforcements on Ductility of Concrete, Surendra P. Shah and B. Vijaya Rangan, ST6:June 70:1167:7366

Stirrup Effectiveness in RC Beams with Axial Force, Munther J. Haddadin and Alan H. Mattock, ST9: Sept 71:2277:8394

Stochastic Models

Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387: 9128

Analysis of Ephemeral Flow in Aridlands, Chester C. Kisiel, Lucien Duckstein and Martin M. Fogel, HY10:Oct 71:1699:8455

Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72: 1343:9119

Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4: Aug 73:479:9943

Stochastic Analysis of Orthokinetic Flocculation, Perry W. Cockerham and David M. Himmelblau, EE2:Apr 74:279:10446

Stochastic Models and Live Load Surveys, State-of-Art Report 2B, William E. Greene, Jr., TB:73:Ib-5-35

Stochastic Processes

Analysis of Floating Plate Under Ocean Waves, Yi-Kwei Wen and Masanobu Shinozuka, WW2:May 72:177:8889

Analysis of Nonlinear Random Wave Problems, Visvaldas J. Grauzinis, WAVES:Sept 74:74

Deterministic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE4:Aug 74:979:10735

Estimation Theory Applications to Design of Water Quality Monitoring Systems, Stephen F. Moore, HY5:May 73:815:9755

First Passage of Nonstationary Random Processes, Ross B. Corotis, Erik H. Vanmarcke and C. Allin Cornell, EM2:Apr 72:401:8816

Link Between Stochastic and Parametric Hydrology, Rafael G. Quimpo, HY3:Mar 73:461:9602

Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002

Longitudinal Dispersion of Bed-Material Particles, Chih Ted Yang and William W. Sayre, HY7:July 71:907:8228

Optimal Allocation of Stochastic Water Supply, Warren A. Hall and David T. Howell, IR4:Dec 70: 395:7718

Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785

Randomness of Settlement Rate under Stochastic Load, Eduardo E. Alonso and Raymond J. Krizek, EM6:Dec 74:1211:11027

Sequential Stochastic Optimization for Reservoir System, Thomas E. Croley, II, HY1:Jan 74:201: 10263

Some Factors Influencing Required Reservoir Storage, Stephen J. Burges and Ray K. Linsley, HY7:July 71:977:8227

Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169

Stochastic Analysis of Periodic Hydrologic Process, Rezaul Karim Bhuiya, HY7:July 71:949:8242

Stochastic Hydrodynamics of Sediment Transport, Chao-Lin Chiu and Kuang-Chen Chen, EM5:Oct 69:1215:6858

Stochastic Model for Analysis of Pavement Systems, Hani Findakly, Fred Moavenzadeh and Joseph Soussou, TE1:Feb 74:57:10358

Stochastic Model for BOD and DO in Estuaries, Stephen W. Custer and Richard G. Krutchkoff, SA5:Oct 69:865:6834

Stochastic Model For Sand Dispersion, Chih Ted Yang and William W. Sayre, HY2:Feb 71:265:7892

Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296

Stochastic Model of Dynamic Eutrophic Estuary, William R. Schofield and Richard G. Krutchkoff, EE3:June 74:613:10578

Stochastic Scheduling of Linear Construction Sites, Joachim Dressler, CO4:Dec 74:571:11024

Stochastic Seismic Analysis of Yielding Offshore Towers, Maharaj K. Kaul and Joseph Penzien, EM5:Oct 74:1025:10884

Upper Bound for Two-Sided Barrier Problem, Arnold L. Sweet, EM6:Dec 69:1369:6962

Stock Ponds

Evaporation Reduction with Reflective Covers, Keith R. Cooley and Lloyd E. Myers, IR3:Sept 73:353: 9982

Stokes Law

Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809

Fifth Order Stokes Wave Profiles, Curtis C. Ebbesmeyer, TN: WW3:Aug 74:264:10724

Storage

The Bicycle Locker - The Urban Solution, William Hepler, BP73:Dec 73:507

Reproducing And Storing Engineering Drawings, Eugene E. Dallaire, CE:Mar 74:45

Storage Racks

The Bicycle Locker - The Urban Solution, William Hepler, BP73:Dec 73:507

Storage Tanks

Photoelastic Analysis of Concrete Storage Tanks, Robert Mark and David P. Billington, ST9:Sept 69: 1939:6791

Undersea Oil Storage Tank, Robert S. Chamberlin, CE:Aug 70:57

Storm Drains

Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67

Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024

Engineer's Notebook: Preliminary Flow Profiles For Highway Engineers, Eugene Allen Gulliver, CE: Dec 73:49

Routing Storm Water Through a Drainage System, Subin Pinkayan, HY1:Jan 72:123:8642

Where Is Urban Hydrology Practice Today?, D. Earl Jones, Jr., HY2:Feb 71:257:7917

Storm Runoff

Corps of Engineers Plans Regional Water Quality Program, William Whipple, Jr., CE:Mar 72:37

Evaluation of Phosphorus Dynamics in a Watershed, Thomas H. Cahill, Patricia Imperato and Francis H. Verhoff, EE2:Apr 74:439:10445

Flood Channel Doubles as Golf Course, Clifford C. Hood, CE:May 72:49

Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73: 519:10188

New Town Planned Around Environmental Aspects, Ralph C. Everhart, CE:Sept 73:69

Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375: 10013

Volume of Storm Water Retention Basins, Chester J. Ordon, EE5:Oct 74:1165:10889

Where Is Urban Hydrology Practice Today?, D. Earl Jones, Jr., HY2:Feb 71:257:7917

Storms

Applications Programs of Hail Suppression, Thomas J. Henderson, OIDS:72:403

Calculated Sand Fills and Groin Systems, John Simpson Hale, CE13:72:II-1385

Characteristics of Saltation of Sand Grains by Wind, Yoshito Tsuchiya and Yoshiaki Kawata, CE13:72: II-1617

Combined Sewer Considerations by Philadelphia, Carmen F. Guarino, Joseph V. Radziul and William L. Greene, SA1:Feb 70:1:7050

Computation of Storm Surge, Richard Silvester, 12CEC:71:1995

Computer Simulation Of Urban Storm Water Runoff, Carl W. Chen and Robert P. Shubinski, HY2:Feb 71:289:7924

Conversion of Maximum Rainfalls to Floods (Bureau of Reclamation Techniques), Frederick A. Bertle, IMROD:Sept 73:302

Design Criteria for North Sea Dikes, Johann Kramer, WW4:Nov 71:703:8548

Designing Against Infiltration, State-of-Art Report 4, Elmer E. Botsai, TB:73:Ia-12-1131

Deterministic and Probabilistic Design Wave Approach to Engineering Application, Ronald M. Noble and Richard B. Dornhelm, WAVES:Sept 74: 856

Dune Erosion During Storm Conditions, T. Edelman, CE13:72:II-1305

Estimation of Washload Produced on Certain Small Watersheds, Oswald Rendon-Herrero, HY7:July 74: 835:10638

Forms of Erosion and Accretion on Cape Cod Beaches, Victor Goldsmith, Joseph M. Colonell and Peter N. Turbide, CE13:72:II-1277

Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73: 519:10188

Inadvertent Weather and Precipitation Modification by Urbanization, Stanley A. Changnon, Jr., IR1: Mar 73:27:9608

Mass-Wasting Processes in Watershed Management, Raymond M. Rice and J. S. Krammes, IAWM:72: 231

Maximum Wave Height Probabilities for a Random Number of Random Intensity Storms, Leon Emry Borgman, 12CEC:71:53

Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451

National Hail Research Experiment, William C. Swinbank, OIDS:72:395

New Bedford Hurricane Barrier Operational Problems, Saul Cooper, HY4:July 68:925:6035

New Designs for Beach Protection Structures, G. D. Khaskhachikh, G. A. Tsaturiyan and Ya. S. Shulgin, CE13:72:III-1675

Observations of Waves in the North Pacific, Lawrence H. Larsen and Douglas R. Fenton, WAVES:Sept 74:197

Probability Distributions For Hurricane Effects, Larry R. Russell, CEO-II:70:835

Probability Distributions for Hurricane Effects, Larry R. Russell, WW1:Feb 71:139:7886

Researches on Sea-Walls, Shoshichiro Nagai, 12CEC: 71:1431

Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668

Sea Observation in Coastal Areas: The Spanish Offshore Network, P. S. Bores, WAVES:Sept 74:13

Some Sediment Aspects of Tropical Storm Agnes, Harold P. Guy and Terry L. Clayton, TN: HY9: Sept 73:1653:10024

Swell and Storm Characteristics from Coastal Wave Records, Warren C. Thompson, 12CEC:71:33

Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887

Turbulence in Hurricane-Generated Coastal Currents, Stephen P. Murray, 12CEC:71:2051

Urban Storm Drainage Criteria Manual from Denver, Elmer L. Claycomb, CE:July 70:39

Vortex Suppression in Stilling Pond Overflow, Y. R. Reddy and John Pickford, HY11:Nov 74:1685: 10969

Water Pollution and Associated Effects from Street Salting, Richard Field, Edmund J. Struzeski, Jr., Hugh E. Masters and Anthony N. Tafuri, EE2:Apr 74:459:10473

Weather Modification as a Watershed Management Tool, Merlin C. Williams, IR1:Mar 69:15:6434

Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359

Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91

Storm Sewers

Design and Construction of Sanitary and Storm Sewers (Book Review), George M. Sallwasser, CE: June 70:88

Effect of Urbanization on Storm Water Peak Flows, Pedro C.C. DaCosta, SA2:Apr 70:187:7198

Iowa's Dilemma--or--the Iowa Dilemma, WQEF:Mar 70:15

Rock Tunnels to Control Pollution and Flooding, Vinton W. Bacon and William T. Painter, URC:72: 115

Soft-ground Tunneling for Storm Sewer, Henry R. Cooke, CE:Apr 71:61

Storm Drainage Practices of Thirty-two Cities, Colby V. Ardis, Kenneth J. Dueker and Arno T. Lenz, HY1:Jan 69:383:6365

Storm Surges

Computation of Storm Surge, Richard Silvester, 12CEC:71:1995

Design Criteria for North Sea Dikes, Johann Kramer, WW4:Nov 71:703:8548

A New Approach to Coastal Defense, Richard Silvester and Siew-Koon Ho, CE:Sept 74:66

A Preliminary Study of Storm Surges in Hudson Bay, K. B. Yuen and T. S. Murty, CE13:72:I-215

Response Of Offshore Towers To Earthquake Excitation, Anil K. Malhotra and Joseph Penzien, CEO-II:70:65

Revisions to Hurricane Design Wave Practices, Charles L. Bretschneider, CE13:72:I-167
Statistical Prediction of Hurricane Storm Surge, Cheng Y. Yang, A. M. Parisi and William S. Gaither, 12CEC:71:2011
Swell and Storm Characteristics from Coastal Wave Records, Warren C. Thompson, 12CEC:71:33
Wind and Surge Damage Due to Hurricane Camille, Herbert C. S. Thom and R. D. Marshall, WW2:May 71:355:8144

Storm Water
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Combined Sewers and Stormwater Drainage - Today and 2050 AD, Carmen F. Guarino and Joseph V. Radziul, CWFE:Mar 71:349
Computer Simúlation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177:9794
Routing Storm Water Through a Drainage System, Subin Pinkayan, HY1:Jan 72:123:8642
Screening Model for Storm Water Control, Paul H. Krishen and David H. Marks, EE4:Aug 74:807:10712
Sediment and Storm Water Control for Fossil Power Plants, Harry C. Grau, EPCE:Aug 74:339
Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093
Stormwater Treatment: Four Case Histories, John A. Lager, CE:Dec 74:40
Volume of Storm Water Retention Basins, Chester J. Ordon, EE5:Oct 74:1165:10889

Strain
Analytical Study of Pressurized Elliptical Cavities, Yoginder P. Chugh and H. Reginald Hardy, Jr., RM14:73:339
Bearing Capacity of Footings in Plane Strain, Hon-Yim Ko and Luther W. Davidson, SM1:Jan 73:1:9496
Behavior of Concrete Under Varying Strain Gradients, I. Demir Karsan and James O. Jirsa, ST8:Aug 70:1675:7484
The Behavior of Foundations During Construction, T. William Lambe, SM1:Jan 68:93:5740
Concrete Strain Capacity Tests -- Their Economic Implications, Donald L. Houghton, ECCD:72:75
Development and Potentials of Moire Method of Strain Analysis for Rock Testing, Kuppusamy Thirumalai and R. L. Fischer, RM13:72:727
The Effects of Temperature, Confining Pressure, Strain-Rate and Interstitial Water on the Rheological Behavior of Calcite Rocks -- Abstract, E. H. Rutter, RM14:73:753
Moire-Rosette Method For Strain Analysis, Fu-Pen Chiang, TN: EM6:Dec 70:1285:7715
A Path Criterion for Deformation Plasticity Theory, Kerry S. Havner, EM3:June 69:747:6630
Plane Strain Consolidation by Finite Elements, John T. Christian and Jan Willem Boehmer, SM4:July 70:1435:7437
Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311
Strain and Tilt Observations Near an Active Fault, Charles G. Bufe, RM13:72:685
Strain in Brick Wall of Five-Story Building, J. G. Stockbridge, ST12:Dec 69:2955:6979
Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225
Yielding of Sand in Plane Strain, Sam Frydman, GT5:May 74:491:10540

Strain Energy
Development of a Plastic Strain Energy Absorbing Pipe Whip Restraint Design, Gene A. Esswein, SDNPF:Dec 73:171
Strain Energy Build-Up in Fatigue Cycling, Gabrielle Douglas and David J. McDougall, RM14:73:121

Strain Gages
Behavior of Unsymmetrical-Continuous Folded Plates, Karl C. Muhlbauer and Fred W. Beaufait, ST12:Dec 69:2783:6958
A Case Study of the Bauer Earth Anchor, Marvin D. Oosterbaan and Douglas G. Gifford, PES:72:I-1391
Constructional Deformations in Rockfill Dam, Arthur D. Penman and Andrew Charles, SM2:Feb 73:139:9560
Rigid Pavement Stresses Under Aircraft Loading, Michel A. Sargious, Grant A. Ross and Gerald A. LeMoal, TE4:Nov 71:579:8492
Velocity Measurement in Waves Using Strain Gauge Technique, Harihar Raman, Viswanatha Sethuraman and I. V. Muralikrishna, WAVES:Sept 74:817

Strain Hardening
Buckling of Inelastic I-Beams Under Uniform Moment, Nicholas S. Trahair and Sritawat Kitipornchai, ST11:Nov 72:2551:9339
Dynamic Analysis of Multibay Multistory Frames, Masaaki Suko and Peter F. Adams, ST10:Oct 71:2519:8443
Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725
Nonuniform Torsion of Steel Beams in Inelastic Range, Charles R. Farwell and Theodore V. Galambos, ST12:Dec 69:2813:6964
Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077
Response of Rate-Sensitive Frames to Impulsive Loads, Nicholas Perrone, EM1:Feb 71:49:7890
Shakedown of Strain-Hardening Structures, John D. Meyer and Kurt H. Gerstle, ST1:Jan 72:95:8641
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755

Strain Measurement
Development of Deep Hole Stress Measurement Device, E. R. Hoskins and E. H. Oshier, RM14:73:299
New Concepts in Consolidation and Settlement Analysis, John Lowe, III, GT6:June 74:571:10623
Random Walk Model of Ideal Granular Mass, Edward Hamilton Fletcher, SM10:Oct 71:1379:8444
"TL" A New Approach to Stress Distribution in Rocks, Gabrielle Douglas, RM13:72:717

Strain Rate
Consolidation at Constant Rate of Strain, Anwar E.Z. Wissa, John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
Consolidation Under Constant Rates of Strain, Ronald E. Smith and Harvey E. Wahls, SM2:Mar 69:519:6452
Controlled Gradient Consolidation Test, John Lowe, III, Ernest Jonas and Vladimir Obrician, SM1:Jan 69:77:6327
Effect of Strain History on Liquefaction of Sand, W. D. Liam Finn, Peter L. Bransby and Dennison J. Pickering, SM6:Nov 70:1917:7670
Response of Steel Building in Fire, Maxwell G. Lay, TB:73:Ib-8-719

Strains
Analysis of Composite Prestressed Concrete Beams, Vadaporty Jagannadha Rao and Walter H. Dilger, ST10:Oct 74:2109:10850
Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187:9338
Behavior of Concrete under Compressive Loadings, I. Demir Karsan and James O. Jirsa, ST12:Dec 69:2543:6935
Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168
Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741
Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925

Delayed Yielding of Three-Phase Epoxy Composites, Leslie J. Cohen and Ori Ishai, EM6:Dec 70:867:7732

Determination of Signs in Moire Method, Fu-Pen Chiang, EM6:Dec 69:1379:6963

Development of Failure Around Excavated Slopes, Peter Dunlop and James M. Duncan, SM2:Mar 70:471:7162

Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72:1005:9363

Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725

Elastic Analysis for Behavior of Rockfill, Neville O. Boughton, SM5:Sept 70:1715:7532

Extensibility of Concrete and Theorems of Limit Analysis, Wai F. Chen, EM3:June 70:341:7369

Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650

Finite Element Method Applied to Some Problems in Soil Mechanics, Chiyyarath V. Girijavallabhan and Lymon C. Reese, SM2:Mar 68:473:5864

Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231

General Stress-Strain-Time Function for Soils, Awtar Singh and James K. Mitchell, SM1:Jan 68:21:5728

Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165:8631

New Rheological Model for Soil Behavior, Fujiya Komamura and Rodney J. Huang, GT7:July 74:807:10675

Nonlinear Analysis of Stress and Strain in Soils, James M. Duncan and Chin-Yung Chang, SM5:Sept 70:1629:7513

Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093

Physical Strains in Nonlinear Thin Shell Theory, Peter G. Glockner and J. P. Shrivastava, EM6:Dec 69:1331:6956

Plane Strain Approximations in Finite Element Analyses of Temporary Walls, Yuet Tsui and Gerald W. Clough, GT74:June 74:173

Repeated Load Testing of a Granular Material, Stephen F. Brown, GT7:July 74:825:10684

Rigid Pavement Stresses Under Aircraft Loading, Michel A. Sargious, Grant A. Ross and Gerald A. LeMoal, TE4:Nov 71:579:8492

Steel-Encased Expansive Cement Concrete Column, Vitelmo V. Bertero and Saad E. Moustafa, ST11:Nov 70:2267:7660

Strain Conditions in Compression Cylinder, William M. Kirkpatrick and J. Scott Younger, SM5:Sept 70:1683:7504

Stress Analysis of Contractive or Dilative Soil, Ian M. Smith and Stephen Kay, SM7:July 71:981:8263

Stress Concentrations Near Holes in Laminates, Richard M. Barker, Jon R. Dana and Charles W. Pryor, Jr., EM3:June 74:477:10590

Stresses and Strains in Reinforced Concrete, August J. Durelli, Vincent J. Parks and Fu-pen Chiang, ST5:May 69:871:6552

Stresses in a Pressurized Cylinder With a Hole, August J. Durelli, C. J. Del Rio, Vincent J. Parks and H. Feng, ST5:Oct 67:383:5524

Stress Path Method, T. William Lambe, ST6:Nov 67:309:5613

Temperature Effects on Behavior of Port Allen Lock, Gerald W. Clough and James M. Duncan, PES:72:I-1467

Theoretical Stresses and Strains from Heat Curving, Roger L Brockenbrough, ST7:July 70:1421:7410

Triaxial and Plane Strain Behavior of Natural Clay, Yoginder P. Vaid and Richard G. Campanella, GT3:Mar 74:207:10421

Volume Changes in Triaxial and Plane Strain Tests, W. D. Liam Finn, Neil H. Wade and Kenneth L. Lee, SM6:Nov 67:297:5611

Stranded Conductors

Static Ending Strain in Stranded Conductor, James C. Poffenberger and Puran R. Mehta, ST11:Nov 70:2429:7687

Strands

Main Cables of Newport Suspension Bridge, Blair Birdsall, ST12:Dec 71:2825:8606

Strata

Stiffness Coefficients for Layered Media, Gordon R. Johnson, Howard I. Epstein and Paul P. Christiano, TN: ST7:July 74:1537:10647

Stratification

About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69

Chemistry of N and Mn in Cox Hollow Lake, Wis., Following Destratification, Patrick L. Brezonik, Joseph J. Delfino and G. Fred Lee, SA5:Oct 69:929:6850

Collection of Oil Slicks, Ralph H. Cross, III and David P. Hoult, WW2:May 71:313:8122

Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699

Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621

The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727

Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72:1325:9417

Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683

Examination of the Thermocline, John C. Sonnichsen, Jr. and Clarence A. Oster, SA2:Apr 70:353:7219

Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613

Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709

Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF:Aug 72:527

A Field Laboratory for Stratified Flow Studies, P. C. Chang and Anching Lin, ISSF:Aug 72:501

Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72:589

Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415

Heated Discharge from Flume into Tank, Heinz Stefan and Frank R. Schiebe, SA6:Dec 70:1415:7762

Hydrography of South Pass, Mississippi River, Lynn D. Wright, WW3:Aug 71:491:8290

Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2:Oct 72:253:9241

Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221

Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345

Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649

Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3

Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711

Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387

Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519

Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
Numerical Methods of Investigation into Stratified Flows, B. I. Sokolov, ISSF:Aug 72:659
On Breaking of Internal Gravity Waves, W. O. Criminale, Jr., ISSF:Aug 72:175
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, Nikolai P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543
Seepage Under Structure on Four Soil Strata, Charles W. Lenau, EM2:Apr 71:223:8058
A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, M. E. Berlyand and E. L. Genikhovich, ISSF:Aug 72:125
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF:Aug 72:595
Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF:Aug 72:261
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35
Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, Yoshiaki Iwasa and Kazuya Inoue, ISSF:Aug 72:237
The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433
Wind-Generated Internal Waves and Inertial-Period Motions, Wolfgang Krauss, ISSF:Aug 72:283

Stratified Flow
About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73:1401:10018
Boundary Contractions as Controls in Two-Layer Flows, Subhash C. Mehrotra, HY11:Nov 73:2003:10160
Computation for Circulation in Stratified Lakes, Kwang K. Lee and James A. Liggett, HY10:Oct 70:2089:7634
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555
Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72:161
Dilution of Buoyant Two-Dimensional Surface Discharges, Heinz Stefan, HY1:Jan 72:71:8653
The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF:Aug 72:527
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493
A Field Laboratory for Stratified Flow Studies, P. C. Chang and Anching Lin, ISSF:Aug 72:501
Flow of Layered Fluid Over Broad Crested Weir, Ian R. Wood and K. K. Lai, HY1:Jan 72:87:8649
Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72:589
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Hydrodynamic Pressures in Stratified Reservoir, Gunaratnam Balachandran, Tharakkal E. Unny and David S. Weaver, TN: EM4:Aug 73:912:9898
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345
Interfacial Wave Breaking in Stratified Liquids, Ralph R. Rumer, Jr., HY3:Mar 73:509:9633
Internal Hydraulic Jump In Co-Current Stratified Flow, Norio Hayakawa, TN: EM5:Oct 70:797:7573
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649
Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Mechanics of Stratified Flow Through Orifices, Joseph P. Bohan and John L. Grace, Jr., HY12:Dec 70:2401:7757
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
A Model for Computation of Stratified Turbulent Flow, J. L. Lumley, ISSF:Aug 72:335
Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Model Versus Field Data on Thermal Plumes from Power Stations, Lawrence C. Neale and George E. Hecker, ISSF:Aug 72:399
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
Numerical Methods of Investigation into Stratified Flows, B. I. Sokolov, ISSF:Aug 72:659
On Breaking of Internal Gravity Waves, W. O. Criminale, Jr., ISSF:Aug 72:175
One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF:Aug 72:641
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF:Aug 72:371
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603

Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, Nikolai P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Selective Withdrawal from Density-Stratified Reservoirs, Norman H. Brooks and Robert C.Y. Koh, HY4:July 69:1369:6702

A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717

A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627

Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509

Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, M. E. Berlyand and E. L. Genikhovich, ISSF:Aug 72:125

Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF: Aug 72:595

Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317

Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673

Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663

Stratification of Flow from Channel into Deep Lake, Heinz Stefan, HY7:July 70:1417:7401

Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451

A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF: Aug 72:261

Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35

Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581

Towards a Design System for Stratified Flows, Michael B. Abbott and John P. Grubert, ISSF:Aug 72:113

The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193

Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87

Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475

Turbulence in the Weakly Mixing Zone of the Interface, Toshio Iwasaki and Tetsuo Abe, ISSF: Aug 72:251

Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433

Water Exchange in Two-Layer Stratified Waters, Hans Hyden, HY3:Mar 74:345:10402

Wind-Generated Internal Waves and Inertial-Period Motions, Wolfgang Krauss, ISSF:Aug 72:283

Straw

Changing Crop Priorities and Drainage Requirements, John C. Nibler and Royal H. Brooks, IRS:Sept 72:25

Streambeds

Hydrodynamic Effects of Seepage on Bed Particles, Gary Z. Watters and Manam V.P. Rao, HY3:Mar 71:421:7973

Stream Flow

Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387: 9128

Analysis of Ephemeral Flow in Aridlands, Chester C. Kisiel, Lucien Duckstein and Martin M. Fogel, HY10:Oct 71:1699:8455

Colorado River-Flow Management, Robert E. Glover, Chester A. Nelson and John I. Sanders, HY11:Nov 74:1519:10934

Cooling Water Density Wedges in Streams, Edward M. Polk, Jr., Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446

Determining Streamflows from Geomorphic Parameters, John F. Orsborn, IR4:Dec 74:455: 10986

Dispersivity Tensor for Uniform Channel Flow, Gedeon Dagan, HY5:Sept 69:1699:6794

Drainage Density in Drift-Covered Basins, John F. Orsborn, HY1:Jan 70:183:7033

Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72: 433:9219

Economic Measure of Effect of Extreme Data, Myron B. Fiering, SA4:Aug 69:683:6720

Effects of Surface Drainage on Stream Flow, H. N. McGill, Allyn C. Bennett, Wendell B. Moody and Gene C. Vittetoe, IR73:Aug 73:501

Evaluation of Effects of Land-Use Changes on Streamflow, David R. Dawdy and James M. Bergmann, IR73:Aug 73:619

Evaporation from an Ephemeral Streambed, Michael L. Sorey and William G. Matlock, HY1:Jan 69:423: 6368

Influence of Soils on Water Yields, Julius H. Dawes, IAWM:72:85

Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002

Mechanism for Streamflow Meandering, Michael C. Quick, HY6:June 74:741:10587

Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192

Objective Determination of Safety Factor in Reservoir Design, E. R. Close, Leo R. Beard and David R. Dawdy, HY5:May 70:1167:7297

Operational Hydrology Using Residuals, George K. Young, Jr. and William C. Pisano, HY4:July 68: 909:6034

Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72: 1343:9119

Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB: Aug 73:21

Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241

Some Factors Influencing Required Reservoir Storage, Stephen J. Burges and Ray K. Linsley, HY7:July 71:977:8227

Streamflow Depletion Resulting from Upstream Surface-Water Impoundment, Stanley P. Sauer, IR73:Aug 73:593

Synthesizing Daily Discharge From Rainfall Records, Donald O. Moore, HY5:Sept 68:1283:6119

Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8: Aug 72:1427:9105

The Varying Source Area Of Streamflow From Upland Basins, John D. Hewlett and Wade L. Nutter, IAWM:72:65

Stream Gages

Algorithm For Adjusting Stream Stage Records, William C. Mills and Willard M. Snyder, IR1:Mar 71:51:7955

Integrating-Float Measurements at Low Velocities, Henry Liu and Larry D. Martin, HY1:Jan 70:143: 7027

Integrating-Float Measurements in Turbulent Flows, Henry Liu and Charles D. Morris, HY2:Feb 70: 565:7101

Potamology Data Collection on Lower Mississippi River, Charles M. Elliott, WW3:Aug 70:601:7466

Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731

Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856

Wave Propagation in Confined Clay, Delon Hampton, Peter J. Huck and Ernest T. Selig, SM4: July 70:1391:7434

Stream Improvement

Effects of Surface Drainage on Stream Flow, H. N. McGill, Allyn C. Bennett, Wendell B. Moody and Gene C. Vittetoe, IR73:Aug 73:501

Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259

Streamlining

Free Streamline Analysis of Two-Dimensional Jet, Anat Arbhabhirama, HY4:July 69:1139:6658

Stream Pollution

DO-Sag in Oscillating Flow, Wen-Hsiung Li and Michael Edwin Kozlowski, EE4:Aug 74:837:10713

Effects of Dispersion on DO-sag in Uniform Flow, Wen-Hsiung Li, SA1:Feb 72:169:8743

Low-Flow Criteria for Stream Standards, William C. Ray and William R. Walker, SA3:June 68:507:6005

Nutrients And Aquatic Vegetation Effects, G. Wolfgang Fuhs, EE2:Apr 74:269:10453

Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841

Program for Water-Pollution Control in Maryland, Andrew Heubeck, Jr., James B. Coulter, Paul W. McKee, James J. O'Donnell and Donald W. Pritchard, SA2:Apr 68:283:5900

Variability of Waste Treatment Plant Performance, Robert V. Thomann, SA3:June 70:819:7380

Streams

Aerator Performance in Natural Streams, Shaw L. Yu, SA5:Oct 70:1099:7601

Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71:321:8545

Atmospheric Oxygenation in a Simulated Stream, Willie P. Isaacs and Anthony F. Gaudy, Jr., SA2:Apr 68:319:5905

Channel Slope Effect on Peak Discharge of Natural Streams, Charles L. Armentrout and Robert B. Bissell, HY2:Feb 70:307:7052

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177

Daily Streamflow Simulation, Kip Payne, W. R. Neuman and Kenneth D. Kerri, HY4:July 69:1163:6665

Discharge, Slope, Bed Element Relations in Streams, J. K. Virmani, Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73

Effect of Period of Record on Flood Prediction, Peter Victorov, HY11:Nov 71:1853:8525

Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189

Effects of Forest Management on Stream Temperature, George W. Brown, IAWM:72:93

Effects of Temperature on Stream Aeration, Ivan Metzger, SA6:Dec 68:1153:6309

Estimation of Washload Produced on Certain Small Watersheds, Oswald Rendon-Herrero, HY7:July 74:835:10638

Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046

Evaluation of Nitrification in Streams, Chester T. Wezenak and John J. Gannon, SA5:Oct 68:883:6159

Evaluation of Phosphorus Dynamics in a Watershed, Thomas H. Cahill, Patricia Imperato and Francis H. Verhoff, EE2:Apr 74:439:10445

An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493

Fluorometer Calibration Curves and Nomographs, Thomas A. Butts, SA4:Aug 69:705:6728

Friction Factors and Bed Forms in Fluvial Channels, David Squarer, HY4:Apr 70:995:7245

Friction-Factors for Flat-Bed Flows in Sand Channels, Frederico Lovera and John F. Kennedy, HY4:July 69:1227:6678

Friction Factors for Flow in Sand Bed Channels, Abu M.Z. Alam and John F. Kennedy, HY6:Nov 69:1973:6900

Hydrology of 7-Day 10-Year Low Flows, Krishan P. Singh and John B. Stall, HY12:Dec 74:1753:11013

Instability of Flat Bed in Alluvial Channels, Harry M. Hill, Vajapeyam S. Srinivasan and Tharakkal E. Unny, HY5:Sept 69:1545:6770

Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3:Mar 72:489:8765

Longitudinal Dispersion in Open Channels, Attila A. Sooky, HY4:July 69:1327:6697

On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF:Aug 72:371

Photosynthesis and Oxygen Balance in Streams, Donald J. O'Connor and Dominic M. Di Toro, SA2:Apr 70:547:7240

Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259

Potamology Data Collection on Lower Mississippi River, Charles M. Elliott, WW3:Aug 70:601:7466

Power Optimization for Prescribed Thermal Pollution, Amir N. Nahavandi and Michael Pappas, PO3:July 71:631:8254

Regional Sediment Yield Analysis of Alaska Streams, Gary L. Guymon, HY1:Jan 74:41:10255

Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503

River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1:Jan 74:1:10281

Sampling Procedures for Coarse Fluvial Sediments, Rolf Kellerhals and Dale I. Bray, HY8:Aug 71:1165:8279

Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783

Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division, Vito A. Vanoni, Chmn., HY4:Apr 71:523:8076

Simulation Model for the Appraisal of Irrigation Projects, Paul Egli, OIDS:72:35

Sources and Transport of Bacterial Indicators in Rural Streams, Samuel H. Kunkle, IAWM:72:105

Stochastic Analysis of Daily River Flows, Rafael G. Quimpo, HY1:Jan 68:43:5719

Stream Turbulence Effects On Turbulent Boundary Layer, James M. Robertson and Charles F. Holt, TN: HY6:June 72:1095:8932

Subcritical Kinematic Flow in a Stable Stream, William J. Gburek and Donald E. Overton, HY9:Sept 73:1433:10026

Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669

Variable Respiration in Aquatic Plant Communities, Archie J. McDonnell and Dennis W. Weeter, SA2:Apr 72:325:8852

Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966

Street Railroads

Expressway Rapid Transit, George Krambles, TE4:Nov 72:1023:9388

Streets

Criteria for Maintenance of Multilane Highways, Committee on Construction, Maintenance, and Operation of Highways, Lloyd G. Byrd, Chmn., HW1:June 68:43:5986

Designing Arterial Streets for Safety, Laurence A. Dondanville, TE1:Feb 71:43:7885

Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066

Optimizing Traffic Flow on Existing Street Networks, Wesley La Baugh, TE2:May 71:353:8135

Pedestrian Precincts in City Centers, Robert Sewall Browne, BP73:Dec 73:248

Planning for Campus Traffic and Parking, Joseph W. Guyton and George L. Reed, TE1:Feb 71:63:7880

Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942

Stabilized Base for Residential Streets, Wesley J. Gallup, CE:May 69:40

Strength
Additional Items Affecting Frame Strength, Egor P. Popov, TB:73:II-16-595
Alternative Approach to Light-Gage Beam Design, James Rhodes and James M. Harvey, ST8:Aug 71:2119:8327
Bonding, Effective Stresses and Strength of Soils, T. S. Ramanatha Iyer, Awtar Singh and Richard G. Campanella, SM5:Sept 69:1219:6786
Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157
Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
Dimensional Tolerance - Concrete, State-of-Art Report 5, Philip W. Birkeland and Leonard J. Westhoff, TB:73:Ib-9-845
Early Age Strength Properties of Shotcrete, Grant L. Anderson and Melvin E. Poad, SUSS:July 73:277
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Large Scale Triaxial Tests on Rock, Madan M. Singh and Peter J. Huck, RM14:73:35
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
Masonry Structures, Theme Report, Arnold W. Hendry, TB:73:III-27-957
Polymer Shotcrete, James R. Graham, SUSS:July 73:418
Reinforced Concrete Design for Strength and Deformability, Mir M. Ali and Donald E. Grierson, EM5:Oct 74:839:10859
Reinforced Lightweight Concrete Columns, Donald W. Pfeifer, ST1:Jan 69:57:6362
Shotcrete Durability and Strength - A Practical Viewpoint, Jan A. Blanck, SUSS:July 73:320
Strength Factors for Composite Members, David E. Allen, TB:73:III-26-940
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907
Strength Versus Energy Dissipation in Sandstone, Michael K. McCarter and John E. Willson, RM14:73:223
Summary of Workshop C - Shotcrete Quality Control and Instrumentation, Paul J. Tilp, SUSS:July 73:351
Time-Dependent Rock Behavior in Uniaxial Compression, W. R. Wawersik, RM14:73:85
Yield and Failure of Glass-Epoxy Composites, Ori Ishai, Arlo E. Moehlenpah and Aaron Preis, EM5:Oct 70:739:7616

Strength of Materials
Dual Failure Criterion for Plain Concrete, Han-Chin Wu, EM6:Dec 74:1167:10996
Fracture and Stress-Strain Relationship of Concrete Under Triaxial Compression, Ranga Palaniswamy and Surendra P. Shah, ST5:May 74:901:10547
Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73:III-27-981
Modern Design of Concrete Pavements, Phil Fordyce and W. A. Yrjanson, TE3:Aug 69:407:6726
Structural Timber Research at Forest Products Lab, Fred Werren, ST12:Dec 69:2891:6980

Strength Weight Ratio
Effect Of Safety Factor On Cost Of Arch Dams, Roman P. Wengler, RCCD:70:249
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201

Streptococcus
Evaluation of Fecal Streptococci Tests for Chlorinated Secondary Sewage Effluents, Shundar Lin, EE2:Apr 74:253:10452

Stress
Anchor Zone Stresses in Prestressed and Concrete Beams, Kashi T. Sundara Raja Iyengar, Raja Sundara and Mandanapalli K. Prabhakara, ST3:Mar 71:807:7961
Construction Self-Weight Stresses Of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, EC5:70:645
Geotechnical Considerations Of Lateral Stresses, David J. Henkel, LS:70:1
Interaction of Bents with Box Girders, Richard N. Wright, TN: ST6:June 70:1265:7315
Problems with Large Underground Stations in Italy, Morando Dolcetta, URC:72:243
Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225
Stresses at Different Depths Below Loaded Area, N. S.V. Kameswara Rao and M. R. Maohav, TN: SM2:Mar 70:779:7117
Stresses in Restrained Cylinder Under Axial Compression, Chiyyarath V. Girijavallabhan, TN: SM2:Mar 70:783:7117
Volume Minimization of Thin Plates Subject to Constraints, Zachary Sherman and Ping-Chun Wang, EM3:June 71:741:8192

Stress Analysis
An Approach to Analysis of Arch Dams in Wide Valleys, Janusz R. Rydzewski and Richard W. Humphries, PO1:May 73:165:9710
Approximate Stress Analysis for Guyed Towers, Stan H. Lowy, CE:Mar 72:80
Computer Mapped Hologram Images in Stress Analysis, John L. Ford and Arthur P. Boresi, EM2:Apr 74:173:10476
Contact Stresses in Twisted Wire Cables, James W. Phillips and George A. Costello, EM2:Apr 73:331:9676
Duality in Finite Element Methods, Ziad M. Elias, EM4:Aug 68:931:6074
Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Stress Analysis of Group of Interconnected Thin-Walled Cantilevers, Jacob Gluck and Mordechai Krauss, ST10:Oct 73:2143:10089
A Study of Bulk and Shear Moduli of a Sand, Leonard Domaschuk and Neil H. Wade, SM2:Mar 69:561:6461
Tectonic Stresses and Rock Slope Stability, Jerry S. Dodd and H. Walter Anderson, RM13:72:171
Undrained Stress Distribution by Numerical Methods, John T. Christian, SM6:Nov 68:1333:6243
Vertical Stress Chart for Rigid Circular Foundations, Alfreds R. Jumikis, TN: SM12:Dec 73:1196:10189

Stress Concentration
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Stress Concentrations Near Holes in Laminates, Richard M. Barker, Jon R. Dana and Charles W. Pryor, Jr., EM3:June 74:477:10590
Stresses at Different Depths Below Loaded Area, N. S.V. Kameswara Rao and M. R. Maohav, TN: SM2:Mar 70:779:7117
Undrained Stress Distribution by Numerical Methods, John T. Christian, SM6:Nov 68:1333:6243

Stress Corrosion
Factors Affecting Environmental Performance of High-Strength Bolts, Walter K. Boyd and W. S. Hyler, ST7:July 73:1571:9866

Stress Distribution
Analysis of Load-Bearing Fills over Soft Subsoils, James K. Mitchell and William S. Gardner, SM11:Nov 71:1549:8522

Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71: 1675:8577
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999
Influence of Progressive Failure On Slope Stabilities, Fredy Romani, Charles William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
Invariant Multicouple Theory of Shells, Gerald A. Wempner, EM6:Dec 72:1397:9444
Stress Distributions in Triaxial Compression Samples, William M. Kirkpatrick, Roger K. Seals and F. Barry Newman, TN: GT2:Feb 74:190:10310
"TL" A New Approach to Stress Distribution in Rocks, Gabrielle Douglas, RM13:72:717
Top-Supported Chimney Liners, Daryoush Motarjemi, EPCE:Aug 74:177
Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620

Stresses
Allowable Bending Stress Design Aid, Allen J. Hulshizer, CE:Feb 70:63
Analysis and Behaviour of a Concrete Cutoff Wall (In Spanish), Jesus Alberro A., 4PCSM:71:II275
Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101
Analysis of Composite Prestressed Concrete Beams, Vadaporty Jagannadha Rao and Walter H. Dilger, ST10:Oct 74:2109:10850
An Analysis of Elliptic-Paraboloid Shell, S. P. Banerjee, ST10:Oct 68:2213:6151
Analysis of Laminated Curved Beams, Antone F. Sayegh and Stanley B. Dong, EM4:Aug 70:471: 7495
Analysis of Pierced Shear Walls, Alexander Coull and R. D. Puri, ST1:Jan 68:71:5710
Analysis of Plate Bending by Triangular Element, William Y.J. Shieh, Seng-Lip Lee and Richard A. Parmelee, EM5:Oct 68:1089:6176
Axisymmetric Stresses and Displacements in Thick-Walled Elastic Torus, David J. McGill and Ira H. Rapp, III, TN: EM3:June 73:629:9765
Behavior of Concrete under Compressive Loadings, I. Demir Karsan and James O. Jirsa, ST12:Dec 69: 2543:6935
Behavior of Reinforced Concrete under Repeated Load, Boris Bresler and Vitelmo V. Bertero, ST6: June 68:1567:6013
Behavior of Unsymmetrical-Continuous Folded Plates, Karl C. Muhlbauer and Fred W. Beaufait, ST12:Dec 69:2783:6958
Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168
Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
Bending of Deep Girders with A514 Steel Flanges, Phillip S. Carskaddan, ST10:Oct 69:2219:6839
Bigger Bridge Loads Coming-Will We Be Ready, Arthur L. Elliott, CE:Feb 69:52
Body-Force Stresses in Gravity Structures, Rowland Richards, Jr. and Werner E. Schmid, SM1:Jan 68: 205:5749
Bonded Continuous Turnout, Gregory E. Mester and Robert H. Robey, TN: ST8:Aug 74:1748:10723
Boussinesq Problems for Nonhomogeneous Solid, Mumtaz K. Kassir, EM2:Apr 72:457:8847
Characteristics of Turbulent Boundary Shear Stress, Paul H. Blinco and Daryl B Simons, EM2:Apr 74: 203:10477
Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
Collocation and Eigenfunctions in Plane Elastostatics, Harry D. Knostman and Isadore K. Silverman, EM3:June 68:797:5998
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178
Concrete Bearing Strength—Support, Mix, Size Effect, Sanat Kumar Niyogi, ST8:Aug 74:1685: 10765
Concrete Dams Built Without Contraction Joints, Roy W. Carlson, RCCD:70:187
Contact Stresses in Twisted Wire Cables, James W. Phillips and George A. Costello, EM2:Apr 73:331: 9676
Convenient Form Of Stress Invariants For Plasticity, Gyan C. Nayak and Olgierd C. Zienkiewicz, TN: ST4:Apr 72:949:8838
Cumulative Damage Theories and Application, J. E. Stallmeyer and William Hamilton Walker, ST12: Dec 68:2739:6290
Cylindrical Shell Subject to Longitudinal Line Load, Amir K. Naghdi, EM5:Oct 70:653:7617
Design Aids for Beams with Circular Eccentric Web Holes, Richard G. Redwood and Peter W. Chan, ST2:Feb 74:297:10331
Design and Testing of Cone and Hypar Footings, Robert L. Nicholls and Mohammad V. Izadi, SM1: Jan 68:47:5732
Design of Beams With Off-Center Web Openings, Terry R. Douglas and Samuel C. Gambrell, Jr., ST6:June 74:1189:10611
Design of Laterally Unsupported Timber Beams, David W. Fowler, ST3:Mar 71:881:7995
Design of Mossyrock Arch Dam, Roman P. Wengler and William Y. J. Shieh, PO1:Jan 71:25:7805
Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131
Development of Failure Around Excavated Slopes, Peter Dunlop and James M. Duncan, SM2:Mar 70: 471:7162
Dynamic Response of Initially-Stressed Membrane Shells, John W. Leonard, EM5:Oct 69:1231:6859
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72: 1005:9363
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
Effect of Skew Penetration on Stress Concentration, Fernand Ellyin and Archibald N. Sherbourne, EM6:Dec 68:1317:6265
Effects of Loading Method on Triaxial Test Results, Raymond Lundgren, James K. Mitchell and James H. Wilson, SM2:Mar 68:407:5844
Elastic Analysis for Behavior of Rockfill, Neville O. Boughton, SM5:Sept 70:1715:7532
Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421
Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6: Dec 72:1547:9435
Field Tests of Aluminum Orthotropic Bridge Deck, Maurice L. Sharp, ST11:Nov 69:2463:6920
Finite Element Analysis Of Skew Sandwich Plates, Gerard R. Monforton and Mofreh G. Michail, TN: EM3:June 72:763:8931
Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650
Finite Element Approach to Plane Microelasticity, Mohammed H. Baluch, John E. Goldberg and Severino L. Koh, ST9:Sept 72:1957:9203
Finite Element Bending Analysis of Reissner Plates, Charles W. Pryor, Jr., Richard M. Barker and Daniel Frederick, EM6:Dec 70:967:7760
Finite Element Large Deflection Analysis of Plates, David W. Murray and Edward L. Wilson, EM1:Feb 69:143:6398
Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773
Flexural Wrinkling in Foam-Filled Sandwich Panels, Ken P. Chong and John A. Hartsock, EM1:Feb 74: 95:10370
Framed Tube Structures for High-Rise Buildings, Alexander Coull and Nutan Kumar Subedi, ST8: Aug 71:2097:8301
General Analysis of Laterally Loaded Beam-Columns, Francois Cheong Siat Moy, ST6:June 74: 1263:10625
Gravity and Surface-Load Stresses in Spheres, August J. Durelli, Vincent J. Parks and Luis Ferrer, EM4:Aug 70:407:7481

High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519

High Pressure Experiments on Soil and Rock, Donald J. Murphy, Jr., RM13:72:691

Hyperbolic Cooling Towers Under Wind Load, Seng-Lip Lee and Phillip L. Gould, ST5:Oct 67:487:5532

Improved Two-Dimensional Finite Element, Robert D. Cook, ST9:Sept 74:1851:10808

Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478

Inelastic Deflections of Beams, Alexander Chajes, ST6:June 68:1549:6012

Inflatable Shells: Nonsymmetric In-Service Loads, John W. Leonard, EM5:Oct 68:1231:6190

Investigation of Deteriorated Concrete Arch Dam, David Pirtz, Arthur G. Strassburger and Richard C. Mielenz, PO1:Jan 70:23:6997

Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271

Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB: Aug 73:43

Method of Analysis of Laterally Loaded Columns, Francois Cheong Siat Moy, ST5:May 74:953:10548

New Design Criteria for USBR Penstocks, Harold G. Arthur and John J. Walker, PO1:Jan 70:129:7034

New Rheological Model for Soil Behavior, Fujiya Komamura and Rodney J. Huang, GT7:July 74:807:10675

Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746

Nonlinear Analysis of Stress and Strain in Soils, James M. Duncan and Chin-Yung Chang, SM5: Sept 70:1629:7513

Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4: Aug 72:891:9091

Photoelastic Analysis of Undersea Structures, Stanley K. Takahashi and Robert Mark, ST3:Mar 69:317:6440

Pierced Shear Walls of Stepwise Variable Thickness, Alexander Coull, TN: ST5:May 74:1157:10536

Plane Stress Reinforced Concrete Finite Elements, James Colville and Jamil Abbasi, ST5:May 74:1067:10554

Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311

Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, TE3:Aug 74:733:10756

Repeated Load Testing of a Granular Material, Stephen F. Brown, GT7:July 74:825:10684

Restrained Elastic Beam-Columns, Nicholas S. Trahair, ST12:Dec 69:2641:6941

Rigid Pavement Stresses Under Aircraft Loading, Michel A. Sargious, Grant A. Ross and Gerald A. LeMoal, TE4:Nov 71:579:8492

Sandwich Plate Structure Analysis by Finite Element, Paul P. Fazio and Kinh H. Ha, ST6:June 74:1243:10593

Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695

Shakedown of Bars in Bending and Tension, Paul Grundy, EM3:June 69:519:6595

Shallow Spherical Shells Under Apex Loads, Isadore K. Silverman and John R. Mays, ST1:Jan 74:249:10262

Shear Lag Analysis of Rectangular Full-Width Tube Junctions, Bharat L. Mehrotra and Ashok K. Govil, ST1:Jan 72:287:8665

Shear Lag in Stiffened Box Girders, David J. Malcolm and Richard G. Redwood, ST7:July 70:1403:7409

Shells of Revolution with Concentrated Edge Forces, David G. Elms, EM3:June 69:711:6625

Significance of Variably Confined Triaxial Testing, John J. Allen and Marshall R. Thompson, TE4:Nov 74:827:10911

Soil Vertical Stress Influence Charts for Rectangles, Alfreds R. Jumikis, TN: SM2:Feb 71:521:7860

Stability of Discontinuous Rock Masses Under Polyaxial Stress Systems, Peter B. Attewell and John P. Woodman, RM13:72:665

Steel-Encased Expansive Cement Concrete Column, Vitelmo V. Bertero and Saad E. Moustafa, ST11: Nov 70:2267:7660

Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909

Stress Concentrations Near Holes in Laminates, Richard M. Barker, Jon R. Dana and Charles W. Pryor, Jr., EM3:June 74:477:10590

Stress Conditions In NGI Simple Shear Test, A. Stanley Lucks, John T. Christian, Gregg E. Brandow and Kaare Hoeg, TN: SM1:Jan 72:155:8618

Stress-Controlled Apparatus for Triaxial Testing, Adel S. Saada, SM6:Nov 67:61:5555

Stresses and Displacements in Nonlinear Soil Media, Yang H. Huang, SM1:Jan 68:1:5714

Stresses and Strains in Reinforced Concrete, August J. Durelli, Vincent J. Parks and Fu-pen Chiang, ST5:May 69:871:6552

Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858

Stresses Due to Strip Loads on Incompressible Soil, Robin N. Chowdhury and George J.W. King, TN: SM12:Dec 72:1433:9399

Stresses in an Earth Dam due to Contruction and Reservoir Filling, Julio E. Valera and Jian C. Chen, GT74:June 74:33

Stresses in a Pressurized Cylinder With a Hole, August J. Durelli, C. J. Del Rio, Vincent J. Parks and H. Feng, ST5:Oct 67:383:5524

Stresses in Beams Having Holes of Arbitrary Shape, H. Deresiewicz, EM5:Oct 68:1183:6185

Stresses in Circular Plates on Elastic Foundations, Richard Bolton, EM3:June 72:629:8972

Stresses in Walls Due to Vertical Loads, Gunnar Karrholm and Hans Petersson, TB:73:III-21-302

Stresses on Shallow Circular Pipe by Transformed Section, Rowland Richards, Jr. and Jagdish S. Agrawal, GT6:June 74:637:10631

Stresses Under Linearly Loaded Rectangular Area, Jean-Pierre Giroud, SM1:Jan 70:263:7040

Stress in Beams with Circular Eccentric Web Holes, Peter W. Chan and Richard G. Redwood, ST1:Jan 74:231:10291

Stress Intensity Factors by Calibrated Finite Element Method, P. F. Walsh, TN: EM6:Dec 72:1611:9396

Stress Measurement by Retractable Cable Method, Rodolfo V. de la Cruz, RM13:72:865

Stress Path Method, T. William Lambe, ST6:Nov 67:309:5613

Stress Studies of Three Old Arch Dams, Gurmukh S. Sarkaria, IMROD:Sept 73:418

Structural Design of Concrete Pavement by Computer, Cloyd E. Warnes, TE1:Feb 72:1:8698

Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035

Structural Engineering Research in Wood, Billy Bohannan, ST2:Feb 68:403:5784

Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549

Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB: 73:III-25-793

Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB: 73:III-25-793

Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867

Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72:611:8791

Theoretical Stresses and Strains from Heat Curving, Roger L Brockenbrough, ST7:July 70:1421:7410

Thermal Loading of Thin-Shell Concrete Cooling Towers, Richard D Larrabee, David P. Billington and John F. Abel, ST12:Dec 74:2367:11002

Thick-Shell Stress Resultants, Frank G. Bercha and Peter G. Glockner, TN: EM3:June 72:757:8931

"TL" A New Approach to Stress Distribution in Rocks, Gabrielle Douglas, RM13:72:717

Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130

Transmission Towers Under Torsional Loads, Albert W.G. Hanna and Richard G. Redwood, PO1:May 73:105:9701

Trial Load Analyses Confirm Arch Dam Model Tests, Archie A. Stone and Gurmukh S. Sarkaria, PO2:Oct 67:37:5503

Triaxial and Plane Strain Behavior of Natural Clay, Yoginder P. Vaid and Richard G. Campanella, GT3:Mar 74:207:10421

TVA Experience with Concrete Chimney Linings, Charles D. Durfee, PO2:Oct 69:193:6826

Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793

Use of Concentration Index for Pavement Design, Richard G. Ahlvin, Yu Tang Chou and Harry H. Ulery, Jr., TE1:Feb 74:135:10349

Vertical Stress Chart for Rigid Circular Foundations, Alfreds R. Jumikis, TN: SM12:Dec 73:1196:10189

Vertical Stresses Due to Deep Foundations, Abraham Ellstein and Leonard Rapoport, 4PCSM:71:II243

Vibration Modulus of Normally Consolidated Clay, Bobby O. Hardin and William L. Black, SM2:Mar 68:353:5833

Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12: Dec 72:1375:9454

Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620

Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91

Yield and Failure of a Clay Under Triaxial Stresses, Raymond N. Yong and Edward McKyes, SM1:Jan 71:159:7790

Stress Gages

The Deep Stress Probe -- A Tool for Stress Determination -- Abstract, J. C. Roegiers, RM14: 73:755

Stress Meters

Development of Deep Hole Stress Measurement Device, E. R. Hoskins and E. H. Oshier, RM14:73: 299

Evaluation of Stress Cell Performance, Raymond J. Krizek, M. Hassan Farzin, Anwar E.Z. Wissa and R. Torrence Martin, GT12:Dec 74:1275:11030

Measurement of InSitu Stress in Soils, Peter J. Huck and Madan M. Singh, EFSE:Aug 74:269

Stress Ratio

Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Indirect Determination of In Situ Stress Ratios in Particulate Materials, Geoffrey E. Blight, EFSE: Aug 74:350

Stress-Strain Curves

Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817

Analysis of Orthotropic Reinforced Concrete Structures, Jeremy Isenberg and Samy A. Adham, ST12:Dec 70:2607:7782

Axial Stress-Strain Characteristics of Sand, Herbert Breth, Ernst Schuster and Prabhakar J. Pise, SM8: Aug 73:617:9919

Behavior of Concrete Under Biaxial Stresses, Helmut B. Kupfer and Kurt H. Gerstle, EM4:Aug 73:853: 9917

Behavior of Dry Sands under Cyclic Loading, D. H. Timmerman and Tien H. Wu, SM4:July 69:1097: 6698

Consolidation at Constant Rate of Strain, Anwar E.Z. Wissa, John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447

Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3: June 72:581:8970

Expansion of Cylindrical Probes in Cohesive Soils, Francois Baguelin, Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129: 9377

Secondary Compression in the Shear of Clays, Leonard K. Walker, SM1:Jan 69:167:6348

Shape of the Complete Stress-Strain Curve for Rock, John A. Hudson, Edwin T. Brown and Charles Fairhurst, RM13:72:773

Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006

Stress-Strain Analysis of El Infiernillo Dam, Jesus Alberro A., PES:72:I-837

Stress-Strain Properties of Compacted Clays, David E. Daniel and Roy E. Olson, GT10:Oct 74:1123: 10869

Stress-Strain Relationships for Particulate Materials at Equilibrium, Peter W. Rowe, PES:73:III-327

Yield and Failure of a Clay Under Triaxial Stresses, Raymond N. Yong and Edward McKyes, SM1:Jan 71:159:7790

Stress Strain Diagrams

Geotechnical Considerations Of Lateral Stresses, David J. Henkel, LS:70:1

Invariant Multicouple Theory of Shells, Gerald A. Wempner, EM6:Dec 72:1397:9444

Nonlinear Pore Pressure Equation, Jerru C.F. Chen, TN: SM6:June 72:649:8933

Nonlinear Stress-Strain Formulation for Soils, Ross B. Corotis, M. Hassan Farzin and Raymond J. Krizek, GT9:Sept 74:993:10811

Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225

Stress Strain Characteristics of Gypsum Concrete, Jehangir F. Mirza and E. G. Kandasamy, TN: ST12:Dec 72:2831:9400

Stress Waves

Acoustic Emissions In Medium Plasticity Clayey Silt, Robert M. Koerner and A. E. Lord, TN: SM1:Jan 72:161:8618

Influence of Loading Rate on Rock Response, Dale E. Stephenson and George E. Triandafilidis, GT2: Feb 74:101:10367

Stress Waves at Rigid Right Angle Joint, James A. Mandel, Rajendra K. Mathor and Yuan C. Chang, EM4:Aug 71:1173:8316

Strip Mines

Area Infrared Locates Solid Ground in Mined Area, Bob Beaver and Jack Wood, CE:Mar 73:62

Strip Mining

Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98

Stripmining and Watershed Management, W. David Striffler, IRS:Sept 72:79

Stripping

Simulation of Ammonia Stripping from Wastewater, Joseph F. Roesler, Robert Smith and Richard G. Eilers, SA3:June 71:269:8182

Stroboscopes

Virtual Mass of Plates and Discs in Water, Frederic T. Mavis, HY10:Oct 70:1947:7593

Structural Analysis

Analysis of Accelerograms and Structural Response, S. K. Guha, S. P. Agarwal, V. P. Agarwal, P. D. Marwadi and S. C. Marwad , TN: EM2:Apr 71: 589:8017

Analysis of a High Gravity Retaining Wall, Fred H. Kulhawy, GT74:June 74:159

Analysis of Frames with Partial Connection Rigidity, Karl M. Romstad and Chittoor V. Subramanian, ST11:Nov 70:2283:7664

Analysis of Rectangular Plates by Stiffness Method, Assad Abdul-Baki and Mudar Jamaluddin, EM3: June 74:547:10613

Analytical and Model Studies of Continuous Folded Plates, John E. Goldberg, Martin J. Gutzwiller and Robert H. Lee, EM5:Oct 68:1127:6181
Analytical and Model Studies of Prestressed Folded Plates, F. Wayne Klaiber, Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818
Analytical Model for Lateral Load Effect on Buildings, Bernardo J. Deschapelles, ST6:June 70:1025:7328
Application of New Methods of Structural Analysis for Safety Investigations of Concrete Dams, Eric B. Kollgaard, IMROD:Sept 73:498
An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB:73:Ia-4-797
Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
Approximate Solution of Beam-columns, Wai F. Chen, TN: ST2:Feb 71:743:7861
Approximate Yield Surface Equations, Glenn A. Morris and Steven J. Fenves, EM4:Aug 69:937:6741
Arch Action and Bond in Concrete Shear Failures, Ramnath N. Swamy, Alexios Andriopoulos and Dotun Adepegba, ST6:June 70:1069:7338
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079
Architectural Seismic Detailing, State-of-Art Report 3, Ormond Robert Berry, TB:73:Ia-12-1115
Architectural-Structural Interaction, Summary Report, Gunnar Essunger, TB:73:Ia-12-1163
Aseismic Design in Romania, P. Mazilu, TB:73:Ib-6-279
Automated Structural Analysis: An Introduction, by William R. Spillers (Book Review), Paul Weidlinger, CE:Apr 72:6
Badly Needed: Changes in Building Codes for Houses, Melvin W. Jackson, CE:Apr 72:55
Beam-Column Design, Maxwell G. Lay, TB:73:II-15-382
Beams on Discrete, Nonlinear Elastic Supports, Aylmer P. Cheng and Howard L. Furr, ST11:Nov 69:2335:6873
Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, Jacob Gluck and Menachem Gelbert, ST9:Sept 72:2031:9196
Buckling of Naturally Curved and Twisted Beams, Irving U. Ojalvo and Malcolm Newman, EM5:Oct 68:1067:6156
Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
Closing Remarks at Tall Buildings Conference, Le-Wu Lu, TB:73:C-511
Column-Supported Shear Walls With Openings, L. Cerny, TB:73:III-21-282
Complete Adjustment Method for Analyzing Arch Dams, J. Laginha Serafim, J. Caldeira Rodrigues, Alferdo Portelo and Mario J. Milho, ST8:Aug 70:1711:7492
Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), H. Rubin, TB:73:II-17-709
Computation of Twin Walls Connected by Clamped Beams, Axel Efsen and L. Pilegaard Hansen, TB:73:III-21-265
Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655
Conjugate Gradient and Decomposition - Analogy, Moshe F. Rubinstein, TN: ST8:Aug 71:2165:8275
The Continuum Analysis of Shear-Wall Structures, Riko Rosman, TB:73:III-21-271
Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73:1023:10054
Cosserat Surface and Sandwich Shell Equilibrium, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1075:9240
Deformations Of Pile Supported Structures, S. P. Prawell, Jr. and R. L. Ketter, CEO-II:70:417
Design Aid for Deflection Calculation for a Uniformly Loaded Flexural Member, Thomas M. Chura, CE:Feb 72:75
Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Design Assumptions, C. K. Lalwani, TB:73:Ib-5-127
Design for the Limit State of Instability, James G. Mac Gregor, TB:73:III-26-936
Design Methods Based on Stiffness, Summary Report, William J. Le Messurier, TB:73:II-17-715
Discrete-Element Analysis for Discontinuous Plates, William Ronald Hudson and Hudson Matlock, ST10:Oct 68:2257:6157
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72:2541:9345
Duality Between Limit Analysis and Limit Design, George I.N. Rozvany, TN: EM6:Dec 71:1763:8559
Ductility of Masonry Walls, Rowland J. Mainstone, TB:73:III-27-1101
Earthquake Loading Response, Theme Report, Kiyoshi Muto, TB:73:Ib-6-151
Earthquake Response Statistics of Nonlinear Structures, Shih-Chi Liu, EM2:Apr 69:397:6507
Effect of Foundation Rotation, D. Dicke, TB:73:III-23-621
Efficient Reanalysis of Modified Structurei, Dag Kavlie and Graham H. Powell, ST1:Jan 71:377:7846
Elastic Analysis-Strength of Members and Connections, Summary Report, Bruno Thurlimann, TB:73:III-21-325
Elastic and Limit States Design, I. A. El-Demirdash, TB:73:II-19-892
Elastic-Plastic Instability of Multi-Story Frames, Sriramulu Vinnakota, TB:73:II-16-568
Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380
The Equivalent-Beam Approach in Tall Buildings Stability Analysis, Erol Yarimci, TB:73:II-16-553
Estimating Beam Size, Adrian J. Perez, CE:Dec 71:67
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153
Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695:8986
Experience and Problems with Dams in Texas, John R. Clarke, IMROD:Sept 73:105
Experimental Verification of Discrete-element Solutions for Plates, Sohan L. Agarwal and William Ronald Hudson, TN: ST8:Aug 71:2159:8275
Extension of Incremental Collapse Theorems, Atle Gjelsvik, TN: EM5:Oct 71:1603:8412
Failure Model Calculations, Horea Sandi, TB:73:Ib-10-1038
Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127
Finite Element Analysis Of Hyperbolic Paraboloid Shells, Semih S. Tezcan, Krishna M. Agrawal and George Kostro, EC5:70:675
Finite Element Analysis of Hyperbolic Paraboloid Shells, Semih S. Tezcan, Krishna M. Agrawal and George Kostro, ST1:Jan 71:407:7847
Finite-Element Analysis of Skewed Shallow Shells, David A. Pecknold and William C. Schnobrich, ST4:Apr 69:715:6523
Flexural Stiffness, James G. Mac Gregor, TB:73:III-24-724
Frame Analysis Considering Connection Shear Deformation, Wai F. Chen and David J. Fielding, TB:73:II-15-365
Frequencies of Beams with Elastic Warping Restraint, Paul P. Christiano and Larry Salmela, TN: ST6:June 71:1835:8164
Full Range Analysis of Eccentrically Stiffened Plates, Anton W. Wegmuller, ST1:Jan 74:143:10286
A Growing Need for Undergraduate Education in Precast Prestressed Concrete Design, Fromy Rosenberg, CEE:Feb 74:1-382

Guide for Design of Steel Transmission Towers, Manual 52, Prepared by the Task Committee on Tower Design of the Committee on Analysis and Design of Structures, Joseph R. Arena, Chmn., 1971, 47 pp.
Guidelines for Selecting a Programmable Calculator, Eugene E. Dallaire, CE:Mar 72:46
Half Frame Method, Bernardo J. Deschapelles, TB:73:II-16-591
High Quality Structural Masonry Based on Controlled Parameters, Sven Sahlin, TB:73:III-27-1086
Influence of Line Motion on Waterhammer Pressures, Don J. Wood, HY3:May 69:941:6572
Interaction Approach in Poland, Stanislaw Kajfasz, TB:73:Ia-12-1149
An Interdisciplinary Graduate Program, Robert Burnham, Volker Hartkopf, Edward M. Krokosky and Irving J. Oppenheim, CEE:Feb 74:1-179
Lateral Pressures On Rigid Permanent Structures, James P. Gould, LS:70:219
Load Factor (Limit States) Design, Summary Report, William C. Hansell and Ivan M. Viest, TB:73:II-19-899
Logarithmic Profiles and Design Wind Speeds, Emil Simiu, EM5:Oct 73:1073:10100
Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103
Matrix Structural Analysis, by John L. Meek (Book Review), Richard N. Wright, CE:Jan 72:16
Meaning of Structural Design, Bruce G. Johnston, TB:73:II-19-894
Methods of Analysis, Bernardo J. Deschapelles, TB:73:III-21-309
Minimum Weight Design Of Light Gage Steel Members, Paul A. Seaburg and Charles G. Salmon, EC5:70:319
Modal Response of Structures, Paul H. Wirsching and James T.P. Yao, TN: ST4:Apr 70:879:7191
Model I-Shaped Beams under Alternating Deflections, Settiana G. Krishnasamy and Archibald N. Sherbourne, TN: ST3:Mar 71:1015:7946
Multiple Configuration Analysis of Structures, Robert J. Melosh and Rein Luik, ST11:Nov 68:2581:6220
Multiple Configuration Analysis Via Mixed Method, Ahmed K. Noor, TN: ST9:Sept 74:1991:10775
New Books On Structural Analysis, CE:Nov 71:70
Nondeterministic Analysis of Offshore Structures, Anil K. Malhotra and Joseph Penzien, EM6:Dec 70:985:7777
Nonlinear Analysis of Concrete Flexural Members, John M. Kulicki and Celal N. Kostem, TB:73:III-22-473
Nonlinear Analysis of Elastic Framed Structures, Jerome J. Connor, Robert D. Logcher and Shing-Ching Chan, ST6:June 68:1525:6011
Optimization, Akbar R. Tamboli, TB:73:II-14-239
Optimization of Structures, Narbey Khachaturian, TB:73:II-14-233
Optimum Design of Framed Structures, Karl M. Romstad, ST:Dec 68:2817:6273
Partially Cracked Finite Elements, John C. Bell and David G. Elms, TN: ST7:July 71:2041:8226
Point-Matching Analysis of Curved Timber Beams, Ricardo O. Foschi, ST1:Jan 70:35:6998
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Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131
Program for Investigation and Analysis of Dams -- Los Angeles County Flood Control District, Richard B. Roche, Jr., IMROD:Sept 73:804
Rapid Design of Tapered Rigid Frames, Duane S. Ellifritt, CE:July 72:45
Reinforced Concrete Beam-Column Joints, Yoichi Higashi and Yoshimasa Owada, TB:73:III-21-259
Reinforced Masonry and the Pathology of Masonry, O. Pfeffermann, TB:73:III-27-1088
A Remark on the Probabilistic Analysis of Structural Safety, Alessandro Baratta, TB:73:Ib-10-1039
Repeated and Cyclic Loadings, Hiroyuki Aoyama, TB:73:III-22-460
Responsibilities of Computer-Aided Design, Charles F. Beck, CE:June 72:58
Seismic Design of Nonstructural Elements, Roland L. Sharpe, TB:73:Ia-12-1143
Serviceability, Emil Grasser, TB:73:III-22-465
Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt, James R. Goodman and Marvin E. Criswell, ST1:Jan 74:11:10274
Shakedown of Grids, Dale G. Eyre and Theodore V. Galambos, ST10:Oct 73:2049:10049
Shakedown Of Plastic Structures With Unstable Parts, Giulio Maier, TN: EM5:Oct 72:1322:9228
Simply Supported Rectangular Double-Layered Grids, M. J.L. Hussey, A. I. Tarza and W. F.D. Theron, ST3:Mar 71:753:7954
Single-Layer Corrugated-Steel-Sheet Hypars, John F. McDermott, ST6:June 68:1279:5977
Spherical Structural Systems In Fluid Media, Bijoy K. Bhattacharys and John F. Carney, III, CEO-II:70:555
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Stability of Asymmetric Structures—Research Needs, Peter F. Adams, ST11:Nov 74:2271:10960
Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022
Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295:9545
Stiffness Related to Nonstructural Elements, Frank Newby, TB:73:Ia-12-1141
Structural Analysis and Design of Pipe Whip Restraints, Frederick L. Moreadith, Garry J. Patterson, C. R. Angstadt and James F. Glova, SDNPF:Dec 73:201
Structural Analysis by Computer Graphics, William F. Bates, Jr., ST11:Nov 69:2433:6914
Structural Analysis--Statics, Dynamics, and Stability by Moshe F. Rubenstein (Book Review), John E. Goldberg, CE:Oct 72:18
Structural Design for Bounds on Dynamic Response, J.-M. Chern, J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646
Structural Failures, Jack R. Janney, STF:73:11
Structural Failures from the Human Side, Raymond C. Reese, STF:73:103
Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343
Structural Modification by Perturbation Method, Jaroslaw Sobieszczanski, ST12:Dec 68:2799:6268
Structural Systems for Very Tall Buildings, Hannskarl Bandel, TB:73:Ia-3-627
Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647
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Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642
Study of Pipe with Concrete Bedding-Part II, Harvey C. Olander and Gordon G. Robertson, TE1:Feb 70:25:7087
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Techniques for Analysis of Large Structures, William R. Spillers, ST11:Nov 68:2521:6233

Tensile Ties in Precast Concrete Systems, Adrian Pauw, TB:73:III-23-623

Theoretical Analysis of Suspension Roofs, Saafan A. Saafan, ST2:Feb 70:393:7107

Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193

Torsion/Flexure Interaction, Neil Jackson, TB:73:III-22-463

Torsion of Perforated Concrete Shafts, Riko Rosman, ST5:May 69:991:6578

Underground Rock Structures Challenge the Engineer, Thomas A. Lang, URC:72:1

Use of Thin Shells for Tall Buildings, Jacques Nasser, TB:73:Ia-3-643

Vertical Wall Joints, M. Pommeret, TB:73:III-21-277

Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425

Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603

What Safety Margin is Necessary in a Structure?, F. K. Lightenberg, TB:73:Ib-10-1032

Structural Behavior

Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166

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Structural Design

Absolute Minimum Weight Structures by Dynamic Programming, Lawrence A. Twisdale and Narbey Khachaturian, TN: ST11:Nov 74:2339:10116

Application of Computers to Airport Planning and Design, Rufus C. Phillips, III, TE3:Aug 70:341:7472

Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550

Automated Optimum Design from Discrete Components, Aldo Cella and Robert D. Logcher, ST1:Jan 71:175:7845

Behavior and Design of Shingle Joints, Edward H. Power and John W. Fisher, ST9:Sept 72:1923:9200

Buckling Formulas for Design, John E. Goldberg, TB:73:II-16-581

Civil Engineers in the Aerospace Program, Stewart W. Johnson, ESE:Apr 70:127

Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4: Apr 73:621:9643

Computer-Aided Processing of Structural Design Specifications, Surendra K. Goel and Steven J. Fenves, EC5:70:763

Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, Kenneth F. Reinschmidt, TB:73:C-AC31-159

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Design for Prevention of Progressive Collapse, Ramzi H. Ferahian, CE:Feb 72:66

Design of Offshore Structures Against Resonant Response, Lawrence G. Selna and David Cho, CEO-II:70:79

Effects of Generalized Excitations on the Non-Linear Behavior of Reinforced Concrete Structures, State-of-Art Report 5, Vitelmo V. Bertero, TB:73:III-22-431

Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623

Esthetics in Structural Design, David P. Billington, CE:Oct 73:36

Evaluation of a University-Industry Interaction Program, Subhash C. Anand and Marvin E. Criswell, CEE:Feb 74:1-971

Experiments on Nonsway Structural Subassemblages, Eugene L. Sheninger and Le-Wu Lu, ST3:Mar 70: 573:7159

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Focal Points of the Studies in Our Design, Kiyoshi Muto, TB:73:C-DM-217

Full-Size Lightweight Concrete Column4, Donald W. Pfeifer, ST2:Feb 71:495:7903

Good Esthetics a "Happy Accident?", Ignacio Martin, CE:Dec 74:71

Guide for the Design of Aluminum Formed-Sheet Building Sheathing, Robert B.B. Moorman, Chmn, ST8:Aug 69:1727:6744

Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, ST9:Sept 74:1789:10779

Implementation, Elmer K. Timby, TB:73:C-DM-225

An Integrated System For RC Building Design, John M. Biggs, Peter J. Pahl and Harry N. Wenke, EC5: 70:1

Irregular Shaped Plates with Singularities, David H. Geiger, EM5:Oct 71:1533:8458

Japanese Structural Standards for Reinforced Concrete Buildings, Masahide Tomii, TB:73:III-20-125

Lateral Buckling of Braced Multistory Frames, John E. Goldberg, ST12:Dec 68:2963:6307

Limit State for Dynamic Loads, Horea Sandi, TB:73: III-26-938

Limit States Design of Slabs Using Lower Bound Approach, B. Vijaya Rangan, ST2:Feb 74:373:10348

Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949

Load Factor (Limit States) Design, Summary Report, William C. Hansell and Ivan M. Viest, TB:73:II-19-899

Maximum Strength Elastic Structural Design, J. E. Taylor, EM3:June 69:653:6617

Meaning of Structural Design, Bruce G. Johnston, TB:73:II-19-894

Monte Carlo Study of Structural Safety, Robert F. Warner and A. P. Kabaila, ST12:Dec 68:2847:6275

New Distributions of Extreme Winds in the United States, Herbert C. S. Thom, ST7:July 68:1787:6038

On Discrete Structural Optimization, Kenneth F. Reinschmidt, EC5:70:189

Optimal Design for Prescribed Buckling Loads, Kalayya Narayana Murthy and Paul P. Christiano, ST11:Nov 74:2175:10912

Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199

Optimization, Akbar R. Tamboli, TB:73:II-14-239

Optimization of Structures, Narbey Khachaturian, TB:73:II-14-233

Optimum Design by Partitioning into Substructures, Uri Kirsch, Max Reiss and Uri Shamir, ST1:Jan 72: 249:8645

Optimum Stiffness and Strength of Elastic Structures, Ernest F. Masur, EM5:Oct 70:621:7580

Participatory Management of Professionals, Thomas A. Marlow, CE:Oct 73:71

Post-Elastic Deflection of Plates, Roger Hooke, ST4: Apr 70:757:7206

Practical Design of Masonry Buildings, R. M. Gensert and William C. Bretnall, TB:73:III-27-1069

Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615

A Probabilistic Approach Toward Integrated Fire Engineering Design, J. Witteveen, TB:73:Ib-8-728

Probabilistic Structural Analysis and Design, Jack R. Benjamin, ST7:July 68:1665:6019

A Procedure For Automating Aircraft Wing Structural Design, Gary L. Giles, EC5:70:125
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
Reinforced Lightweight Concrete Columns, Donald W. Pfeifer, ST1:Jan 69:57:6362
Reliability-Based Structural Design, Fred Moses and John D. Stevenson, ST2:Feb 70:221:7072
Response of Ocean Based Structure To Water-Shock Waves, Young C. Kim, CEO-II:70:93
Selection of Design Basis Tornado, M. A. Suarez, SDNPF:Dec 73:597
Shear Strength of Post-Tensioned Daps in Prestressed Concrete Beams, Ali A. Hamoudi and Michael K.S. Phang, ST12:Dec 74:2403:11011
Site Related Design Considerations for Standardized Nuclear Power Plant Design, Edward A. Sweeney, SDNPF:Dec 73:415
Structural Analysis and Design of Pipe Whip Restraints, Frederick L. Moreadith, Garry J. Patterson, C. R. Angstadt and James F. Glova, SDNPF:Dec 73:201
Structural and Foundation Computer Based Designs, Richard F. Harig and Daniel J. McDermott, EC5:70:515
Structural Design for Bounds on Dynamic Response, J.-M. Chern, J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646
Structural Design of Angeles Tunnel Surge Chamber, Rossiter L. White, PO1:July 74:71:10644
Structural Design of Fukushima No. 6 and Tokai No. 2 Nuclear Power Plants, Hsiang-Sheng Chang, SDNPF:Dec 73:391
Structural Design of Masonry Buildings, Walter L. Dickey, TB:73:III-27-1057
Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1
Structural Risk Analysis and Reliability-Based Design, Alfredo H-S. Ang, ST9:Sept 73:1891:10011
Suggested Design Guides for Beams with Web Holes, John E. Bower, Chmn., ST11:Nov 71:2707:8536
Systematic Design of Multistory Buildings, John F. Brotchie, ST7:July 74:1489:10678
Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541:9864
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Towards Risk-Based Design and Performance Criteria, Alfredo H.-S. Ang, TB:73:Ib-10-1007
Tower: A Design System For Guyed Towers, Karl L. Reichelt, Daniel M. Brown and John W. Melin, EC5:70:377
Weight Optimization of Plane Trusses, Samuel L. Lipson and Krishna M. Agrawal, ST5:May 74:865:10521

Structural Engineering
Absolute Minimum Volume Of Reinforcement In Slabs, George I.N. Rozvany and Sai R. Adidam, TN: ST5:May 72:1217:8896
Absolute Minimum Weight Structures by Dynamic Programming, Lawrence A. Twisdale and Narbey Khachaturian, TN: ST11:Nov 74:2339:10116
Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641:8982
Aerodynamic Investigations of Box Girder Bridges, Ali Sabzevari and Robert H Scanlan, ST7:July 69:1517:6684
Algorithm for Matrix Bandwidth Reduction, Henry R. Grooms, ST1:Jan 72:203:8636
Along-Wind Response of Large Bluff Buildings, Julius Solnes and Ragnar Sigbjornsson, ST3:Mar 73:381:9585
Alternative Approach to Light-Gage Beam Design, James Rhodes and James M. Harvey, ST8:Aug 71:2119:8327
Ambient Vibration of Two Suspension Bridges, V. R. Mc Lamore, Gary C. Hart and Ian R. Stubbs, ST10:Oct 71:2567:8454
Amphitheater Roof Features Steel Box Sections, Walter P. Moore, Jr., CE:Nov 69:70
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
Analysis by Group Iteration Using Substructures, Moshe F. Rubinstein and Duane E. Wikholm, ST2:Feb 68:363:5779
Analysis For Truss Buckling, Donald L. Dean and Frederick R. Jetter, TN: ST8:Aug 72:1893:9086
Analysis of Asymmetrical Coupled Shear Walls, Arthur C. Heidebrecht and R. David Swift, ST5:May 71:1407:8100
Analysis of Biaxially Loaded Steel H-Columns, Sakda Santathadaporn and Wai F. Chen, ST3:Mar 73:491:9621
Analysis of Composite Prestressed Concrete Beams, Vadaporty Jagannadha Rao and Walter H. Dilger, ST10:Oct 74:2109:10850
Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73:799:9715
Analysis of Curved Folded Plate Structures, Christian Meyer and Alexander C. Scordelis, ST10:Oct 71:2459:8434
Analysis of Curved Girder Bridges, Lansford C Bell and Conrad P Heins, Jr., ST8:Aug 70:1657:7462
Analysis of Dowel Action, David W. Johnston and Paul Zia, ST5:May 71:1611:8147
Analysis of Dynamic Response of Highway Bridgeu, Anestis S. Veletsos and Tseng Huang, EM5:Oct 70:593:7591
Analysis of Eccentrically Stiffened Cylindrical Shells, Peter C. Kohnke and William C. Schnobrich, ST7:July 72:1493:9033
Analysis of Footing Subjected to Biaxial Bendine, German R. Gurfinkel, ST6:June 70:1049:7329
Analysis of Frames with Partial Connection Rigidity, Karl M. Romstad and Chittoor V. Subramanian, ST11:Nov 70:2283:7664
Analysis of Horizontally Curved Box Girder Bridges, Kuang-Han Chu and Suresh G. Pinjarkar, ST10:Oct 71:2481:8453
Analysis of Inelastic Suspension Structures, Thomas M. Murray and Nicholas Willems, ST12:Dec 71:2791:8574
Analysis of Multibeam Bridges, Graham H. Powell, Amitava Ghose and Ian G. Buckle, ST9:Sept 69:1953:6796
Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473
Analysis of Orthotropic Reinforced Concrete Structures, Jeremy Isenberg and Samy A. Adham, ST12:Dec 70:2607:7782
Analysis of Pierced Shear Walls, Alexander Coull and R. D. Puri, ST1:Jan 68:71:5710
Analysis of Plane Prestressed Cable Structures, H. Mollmann, ST10:Oct 70:2059:7598
Analysis of Shear Walls with Openings, Chiyyarath V. Girijavallabhan, ST10:Oct 69:2093:6824
Analysis of Space Truss as Equivalent Plate, William R. Flower and Lewis C. Schmidt, ST12:Dec 71:2777:8569
Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11:Nov 72:2605:9356
Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233:8643
Analysis of Three Dimensional Thin-Walled Structures, Bharat L. Mehrotra, Aftab A. Mufti and Richard G. Redwood, ST12:Dec 69:2863:6968
Analysis of T-Stub Flange-to-Column Connections, Ben Kato and William McGuire, ST5:May 73:865:9725
Analysis of Unbraced Multistory Steel Rigid Frames, E. Whitman Wright and Edwin H. Gaylord, ST5:May 68:1143:5944
Analytical and Experimental Methods in Composite Mechanics, James M. Whitney, ST1:Jan 73:113:9477

Analytical and Model Studies of Prestressed Folded Plates, F. Wayne Klaiber, Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818

Analytical Model for Lateral Load Effect on Buildings, Bernardo J. Deschapelles, ST6:June 70:1025:7328

Analytical Study of Tubular Tee-Joints, Alexander C. Scordelis and Jack G. Bouwkamp, ST1:Jan 70:65:7016

Anchor Zone Stresses in Prestressed and Concrete Beams, Kashi T. Sundara Raja Iyengar, Raja Sundara and Mandanapalli K. Prabhakara, ST3:Mar 71:807:7961

Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234

Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550

Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771

Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351

Arch Action and Bond in Concrete Shear Failures, Ramnath N. Swamy, Alexios Andriopoulos and Dotun Adepegba, ST6:June 70:1069:7338

Are the Codes Safe for Wind Pressure?, Clayton T. Crowe, Alfredo Barriga, John A. Roberson and William V. Taylor, TN: ST8:Aug 74:1745:10723

Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950

Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, ST1:Jan 74:175:10289

Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72:1069:8911

Automated Design of Frame Structures, Dag Kavlie and Johannes Moe, ST1:Jan 71:33:7823

Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795

Automated Optimum Design from Discrete Components, Aldo Cella and Robert D. Logcher, ST1:Jan 71:175:7845

Automatic Design of Shell Structures, Peter G. Smith and Edward L. Wilson, ST1:Jan 71:191:7825

Automatic Generation of Finite Element Matrices, Rene W. Luft, Jose M. Roesset and Jerome J. Connor, ST1:Jan 71:349:7841

Auxiliary Reinforcement in Concrete Connections, Robert F. Mast, ST6:June 68:1485:6002

Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182

Basic Structural Design of Concrete Chimneys, Wadi S. Rumman, PO3:June 70:309:7334

Bayonne River Bridge, Claude Bourgeois, CE:June 69:43

Beam Buckling by Finite Element Procedure, C. Philip Johnson and Kenneth M. Will, ST3:Mar 74:669:10432

Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915

Beams on Discrete, Nonlinear Elastic Supports, Aylmer P. Cheng and Howard L. Furr, ST11:Nov 69:2335:6873

Bearing Strength of Concrete--Geometric Variations, Sanat Kumar Niyogi, ST7:July 73:1471:9853

Behavior and Design of Shingle Joints, Edward H. Power and John W. Fisher, ST9:Sept 72:1923:9200

Behavior of Concrete under Compressive Loadings, I. Demir Karsan and James O. Jirsa, ST12:Dec 69:2543:6935

Behavior of Concrete Under Varying Strain Gradients, I. Demir Karsan and James O. Jirsa, ST8:Aug 70:1675:7484

Behavior of Continuous Crane Rails, Pavel J. Marek and J. Hartley Daniels, ST4:Apr 71:1081:8067

Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626

Behavior of Elastic-Plastic Frames, Alfred Korn and Theodore V. Galambos, ST5:May 68:1119:5942

Behavior of Fiber Glass Reinforced Concrete Beams, Edward G. Nawy, Gary E. Neuwerth and Charles J. Phillips, ST9:Sept 71:2203:8353

Behavior of Howe, Pratt, and Warren Trusses, John D. Renton, ST2:Feb 69:183:6388

Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015

Behavior of Laced and Battened Structural Members, Fung J. Lin, Ernst C. Glauser and Bruce G. Johnston, ST7:July 70:1377:7404

Behavior of Large A514 Steel Bolted Joints, Geoffrey L. Kulak and John W. Fisher, ST9:Sept 69:1873:6767

Behavior of Laterally Reinforced Concrete ColumnF, Edwin G. Burdette and Hubert K. Hilsdorf, ST2:Feb 71:587:7905

Behavior of Loaded Cable Systems, W. Terence O'Brien, ST10:Oct 68:2281:6162

Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800

Behavior of Prestressed Cable Truss Structures, Dwight E. Urelius and David W. Fowler, ST8:Aug 74:1627:10747

Behavior of Prestressed Composite Beams, Ronald S. Reg and Nat W. Krahl, ST6:Dec 67:87:5663

Behavior of Simply Supported Slabs, Murray A. Muspratt, ST12:Dec 69:2703:6945

Behavior of Single Horizontally Curved Girder, Conrad P. Heins, Jr. and Kenneth R. Spates, ST7:July 70:1511:7420

Behavior of Stiffened Curved Plate Model, Conrad P. Heins, Jr. and Robert L. Hails, ST11:Nov 69:2353:6876

Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7:July 72:1361:9010

Behavior of Unsymmetrical-Continuous Folded Plates, Karl C. Muhlbauer and Fred W. Beaufait, ST12:Dec 69:2783:6958

Behavior of Wood-Concrete Composite Beams, George Pincus, ST10:Oct 70:2009:7592

Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168

Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302

Bending of Deep Girders with A514 Steel Flanges, Phillip S. Carskaddan, ST10:Oct 69:2219:6839

Bending Strength of Aluminum Formed Sheet Members, J. R. Jombock and John W. Clark, ST2:Feb 68:511:5816

Biaxially Loaded Beam-Column Analysis, Ishwar C. Syal and Satya S. Sharma, ST9:Sept 71:2245:8384

Biaxial Moment Thrust Curvature Relations, Robert F. Warner, ST5:May 69:923:6564

Biaxial Stress-Strain Relations for Concrete, Tony C.Y. Liu and Arthur H. Nilson, ST5:May 72:1025:8905

Bibliography on Latticed Structures, Donald R. Sherman, Chmn., ST7:July 72:1545:9055

Bin Loads, Andrew W. Jenike and Jerry R. Johanson, ST4:Mar 68:1011:5916

Bolted and Welded Stainless Steel Connections, Samuel J. Errera, Daniel W. Popowich and George Winter, ST6:June 74:1279:10618

Bolted Connections with Varied Hole Diameters, Zaher Shoukry and William Thomas Haisch, ST6:June 70:1105:7349

Bolted Galvanized Bridges-Engineering Acceptance Near, Peter C. Birkemoe and D. C. Herrschaft, CE:Apr 70:42

Bolted Joints Under Sustained Loading, Verl Lobb and Floyd Stoller, ST3:Mar 71:905:7996

Bonded Concrete Overlays, Raouf Sinno and Howard L. Furr, ST8:Aug 70:1627:7450

Bonded Continuous Turnout, Gregory E. Mester and Robert H. Robey, TN: ST8:Aug 74:1748:10723

Bonded Wood-Concrete T-Beams, George Pincus, ST10:Oct 69:2265:6842

Bounding of Frame Buckling Loads, Alfred Korn, ST8:Aug 70:1639:7452

Bridge Analysis Using Orthotropic Plate Theory, Conrad P. Heins, Jr. and Charles T.G. Looney, ST2:Feb 68:565:5822

Bridge Deck Deterioration and Crack Control, Joseph P. Callahan, James L. Lott and Clyde E. Kesler, ST10:Oct 70:2021:7579

Bridge Deck Protection and Resurfacing, Roland A. Pettitt, ST4:Apr 70:791:7217

Bridge Engineer Looks at Esthetics of Structures, Reece H. Wengenroth, ST4:Apr 71:1227:8074

Buckling Loads of Nonuniform Columns, Chiyyarath V. Girijavallabhan, ST11:Nov 69:2419:6908

Buckling of Anisotropic Composite Plates, Christos C. Chamis, ST10:Oct 69:2119:6799

Buckling of Composite Beams in Negative Bending, Sumio Hamada and Jack Longworth, ST11:Nov 74:2205:10917

Buckling of Inelastic I-Beams Under Uniform Moment, Nicholas S. Trahair and Sritawat Kitipornchai, ST11:Nov 72:2551:9339

Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903

Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, Jacob Gluck and Menachem Gelbert, ST9:Sept 72:2031:9196

Buckling of Light-Gage Corrugated Metal Shear Diaphragms, John T. Easley and David E. McFarland, ST7:July 69:1497:6683

Buckling of Longitudinally Stiffened Sheets, Niels C. Lind, TN: ST7:July 73:1686:9828

Buckling Of Orthotropic Hyperbolic Paraboloid Shells, Peter Gergely, TN: ST1:Jan 72:395:8619

Buckling of Plates of Abruptly Varying Stiffness, P. Paramasivam and Jawalker K. Sridhar Rao, ST6: June 69:1313:6635

Buckling of Polar Orthotropic Annular Plates, Kaja Vijayakumar and C. V. Joga Rao, EM3:June 71:701:8171

Buckling of Reinforced Concrete Plates, Stuart E. Swartz and Vernon H. Rosebraugh, ST1:Jan 74:195:10280

Buckling of Rigidly-Jointed Plane Trusses, Adel Helmy Salem, ST6:June 69:1271:6628

Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348

Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682

Buckling of Trapezoidal Frames Permitted to Sway, Adel Helmy Salem, ST12:Dec 69:2621:6940

Buckling of Wide Flange Columns About Minor Axis, Subhash C. Anand, Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513

Buckling Strength of Columns Based on Random Parameters, Bertrand T. Chung and George C. Lee, ST7:July 71:1927:8259

Buckling Stress States of Cylindrical Shells, Ihsan Mungan, ST11:Nov 74:2289:10965

Buckling Under Compressive and Tensile Load, Aron Zaslavsky, TN: ST10:Oct 70:2257:7572

BUILD-An Integrated System for Building Design, Lavette C. Teague, Jr. and Alan M. Hershdorfer, ST4:Apr 68:983:5901

Building Columns under Strong Earthquake Exposure, John A. Blume, ST9:Sept 71:2351:8398

Building Dynamics Due to Stochastic Wind Forces, Gary C. Hart, ST3:Mar 70:535:7154

Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71

Cable-Suspended Roof Construction State-of-the-Art, Subcommittee on Cable-Suspended Roof Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, John B. Scalzi, Chmn., ST6:June 71:1715:8190

Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7: July 72:1377:9013

Cold-Formed Steel Members with Perforated Elements, Wei-Wen Yu and Charles S. Davis, ST10:Oct 73:2061:10059

Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127

Collapse Load of Reinforced Concrete Footings, George G. Meyerhof and Kanakapura S. Subba Rao, ST5:May 74:1001:10531

Collapse of Curved Reinforced Concrete Beams, Ian J. Jordaan, Magdi M. A. Khalifa and Arthur E. McMullen, ST11:Nov 74:2255:10951

Column Moments in Eccentrically Supported Tanks, Phillip L. Gould and Subir K. Sen, TN: ST10:Oct 74:2165:10858

Column-Plate Interaction in Flat Slab Structures, Dieter D. Pfaffinger, ST1:Jan 72:307:8670

Columns Braced by Girts and a Diaphragm, Tamirisa V.S.R. Apparao, Samuel J. Errera and Gordon P. Fisher, ST5:May 69:965:6576

Column Web Strength in Beam-to Column Connections, Wai F. Chen and David E. Newlin, TN: ST9:Sept 73:1978:9968

Commentary on Orthotropic-Deck Bridge Specifications by the Task Committee on Orthotropic Plate Bridges of the Committee on Metals of the Structural Division, Charles G. Schilling, Chmn., ST1:Jan 74:109:10273

Comparison of Approximate Linear Methods for Concrete Creep, Zdenek P. Bazant and Leonard J. Najjar, ST9:Sept 73:1851:10006

Complete Adjustment Method for Analyzing Arch Dams, J. Laginha Serafim, J. Caldeira Rodrigues, Alferdo Portelo and Mario J. Milho, ST8:Aug 70:1711:7492

Composite Beam Incorporating Cellular Steel Decking, Hugh Robinson, ST3:Mar 69:355:6447

Composite Beams in Torsion, Conrad P. Heins, Jr. and John T.C. Kuo, ST5:May 72:1105:8921

Composite Steel-Concrete Construction, by the Subcommittee on the State-of-the-Art Survey, of the Task Committee on Composite Construction, of the Committee on Metals, Structural Division, Ivan M. Viest, Chmn., ST5:May 74:1085:10561

Compression-Tests on Hoop-Reinforced Concrete, Norman F. Somes, ST7:July 70:1495:7417

Computation of Cutting Length of Guys, Stanley J. Jarecki, Y. C. Lee and Paul P. Christiano, PO4:Dec 71:817:8587

Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4: Apr 73:621:9643

Computer-Aided Processing of Design Specifications, Surendra K. Goel and Steven J. Fenves, ST1:Jan 71:463:7839

Computer Analysis for Slender Concrete Columns, John Gaughan, ST10:Oct 74:2123:10894

Computer Analysis of Buckling of Imperfect Shells, Robert E. Ball and Bruce A. Ryan, ST10:Oct 73:2097:10072

Computer Analysis of Large Linear Frames, William D. Whetstone, ST11:Nov 69:2401:6897

Computer Charges and Engineering Organizations, Daniel Roos, EC5:70:559

Computer Charges and Engineering Organizations, Daniel Roos, ST1:Jan 71:339:7834

Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916

Computer Plotted Prestressed Concrete Design Charts, Leonard Rice, ST3:Mar 71:863:7993

Computer's Role in Transmission Line Design, Charles F. Beck, ST1:Jan 71:63:7817

Concept of Structural Control, James T. P. Yao, ST7: July 72:1567:9048

Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72:2329:9325

Concrete Beams in Bending, Torsion and Shear, Arthur E. McMullen and Joseph Warwaruk, ST5: May 70:885:7270

Concrete Beams with Prestressed Reinforcement, Alfred G. Bishara and Filomeno N. Almeida, ST7: July 70:1445:7411
Concrete Bearing Strength—Support, Mix, Size Effect, Sanat Kumar Niyogi, ST8:Aug 74:1685: 10765
Concrete Box-Girder Bridges as Sandwich Plates, J. G. Arendts and Wallace W. Sanders, Jr., ST11:Nov 70:2353:7695
Concrete Column Design by AASHO Specifications, Hans H. Fickel, ST4:Apr 71:1187:8070
Concrete Deep Submergence Hollow Shell Structures, Jerry D. Stachiw, ST12:Dec 69:2931:6982
Concrete Encased Steel Columns—Design Tables, Richard W. Furlong, ST9:Sept 74:1865:10807
Concrete Hulls for Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, ST4:Apr 71:1283:8078
Concrete Pipe Culvert Behavior - Part 2, Raymond Eugene Davis and Alfred E. Bacher, ST3:Mar 74: 615:10408
Concrete Pipe Culvert Behavior—Part 1, Raymond Eugene Davis, Alfred E. Bacher and John C. Obermuller, ST3:Mar 74:599:10404
Concrete-Polymer Composites, Lawrence E. Kukacka, Peter Colombo, Meyer Steinberg and Bernard Manowitz, ST9:Sept 71:2217:8363
Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655
Conditioning of Structural Flexibility Matrix, Charles H. Goodspeed and Michael J. Martin, ST8:Aug 74: 1677:10763
Connections in Thin Low-ductility Steels, Asfandiar K. Dhalla, Samuel J. Errera and George Winter, ST10:Oct 71:2549:8442
Consistent Partial Safety Factors, Niels C. Lind, ST6: June 71:1651:8166
Constraint Processing in Design, Richard N. Wright, LeRoy T. Boyer and John W. Melin, ST1:Jan 71: 481:7856
Construction Self-Weight Stresses of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, ST1:Jan 71:393:7840
Continuous Beams With Prestressed Reinforcement, Alfred G. Bishara, George E. Mason and Filomeno N. Almeida, ST9:Sept 71:2261:8387
Continuous Helicoidal Girders, Assad Abdul-Baki and Abla Shukair, ST10:Oct 73:2183:10108
Continuously Supported Cylindrical-Conical Tanks, Robert S. C. Wang and Phillip L. Gould, ST10:Oct 74:2037:10876
Continuous Method of Suspension Bridge Analysis, Harry H. West and Arthur R. Robinson, ST12:Dec 68:2861:6280
Convenient Form Of Stress Invariants For Plasticity, Gyan C. Nayak and Olgierd C. Zienkiewicz, TN: ST4:Apr 72:949:8838
Conventionally Reinforced Nuclear Containments, Clarence T Gordon and William L Klehm, ST2:Feb 70:199:7065
Convergence in Highly Nonlinear Cable Net Problems, Anil K. Kar and Clyde Okazaki, ST3: Mar 73:321:9601
Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105: 9281
Cooling Towers Supported on Columns, Salman H. Abu-Sitta, ST12:Dec 70:2575:7753
Cost-Effective Matching of Task and Computing Device, Ralph E. Miller, Jr. and John McCaslin, ST1:Jan 71:329:7854
Cost Optimization of Structural Roof System, Samuel L. Lipson and Alan D. Russell, ST8:Aug 71:2057: 8291
Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774
Coupled Walls Subjected To Discontinuous Distributed Loads, Ian J. Jordaan and Robert E. Loov, TN: ST7:July 72:1675:9069
Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72: 2663:9423
Creep and Shrinkage in Reinforced Concrete Beams, Tuck Wah Leong and Robert F. Warner, ST3:Mar 70:509:7150
Creep, Cracking, and Shrinkage in Concrete Frame Structures, Lawrence G. Selna, ST12:Dec 69:2743: 6949
Creep Deflection of Reinforced Concrete Beams, Charles A. Miller and Sidney A. Guralnick, ST12: Dec 70:2625:7768
Criteria for Heat Curving Steel Beams and Girders, Roger L Brockenbrough, ST10:Oct 70:2209:7638
Cumulative Damage Theories and Application, J. E. Stallmeyer and William Hamilton Walker, ST12: Dec 68:2739:6290
Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749
Curved Beam Stiffness Coefficients, Dale L. Morris, ST5:May 68:1165:5947
Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631
Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790
Cylindrical Concrete Hulls Under Hydrostatic Loading, Harvey H. Haynes, Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963
Cylindrical Shell Roofs with Draped Prestressing, A. H. Bryant and J. C. Scrivener, ST4:Apr 71:611: 6496
Damage to Structures Due to Floor Shocks, Nelson M. Isada, ST2:Feb 71:561:7897
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Decrease in Maximum Hurricane Winds After Landfall, Joseph L. Goldman and Toshimitsu Ushijima, ST1:Jan 74:129:10295
Deep Slabs Subjected to Static and Blast Loading, Gayle E. Albritton, ST11:Nov 69:2449:6919
Deflection Analysis for Shakedown, Dale G. Eyre and Theodore V. Galambos, ST7:July 70:1359:7403
Deflection of Circular Plate with Built-in Edges, Manuel A.G. Silva and Leon M. Keer, ST8:Aug 71: 2073:8319
Deflection Stability of Beams under Repeated Loads, Yuhshi Fukumoto and Hiroshi Yoshida, ST7:July 69:1443:6668
Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
Deformations of Geometrically Imperfect Beams, Nicholas S. Trahair, ST7:July 69:1475:6682
Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
Design Aids for Beams with Circular Eccentric Web Holes, Richard G. Redwood and Peter W. Chan, ST2:Feb 74:297:10331
Design and Analysis of Frames for Stability, Harold Switzky and Ping Chun Wang, ST4:Apr 69:695: 6522
Design Criteria for H-Columns under Biaxial Loading, Negussie Tebedge and Wai F. Chen, ST3: Mar 74:579:10400
Design Criteria for Turbine-Generator Pedestals, Asadour H. Hadjian, PO1:Jan 70:1:6991
Design of a Barrel-Vault Cofferdam, James A. Cheney, ST4:Apr 69:677:6511
Design of Beams With Off-Center Web Openings, Terry R. Douglas and Samuel C. Gambrell, Jr., ST6:June 74:1189:10611
Design of Beams With Web Openings, John E. Bower, ST3:Mar 68:783:5869
Design of Biaxially Loaded Rectangular Footings, N. Shanmughasundaram, TN: ST10:Oct 74:2157:10858
Design of Cable-Stayed Girder Bridges, Man-Chung Tang, ST8:Aug 72:1789:9151
Design of Columns for Seismic Loads, Aybars Gurpinar and James T.P. Yao, ST9:Sept 73:1875: 9978
Design of Cylindrical Concrete Water Tanks, Harvey C. Olander, ST5:May 70:947:7303
Design of FRP Fluid Storage Vessels, Frank J. Heger, ST11:Nov 70:2465:7698
Design of Laterally Unsupported Timber Beams, David W. Fowler, ST3:Mar 71:881:7995

Design of Reinforced Concrete Spandrel Beams, Thomas T.C. Hsu and Kenneth T. Burton, ST1:Jan 74:209:10277
Design of Seismic Joint for San Francisco Bay Tunnel, Walter S. Douglas and Robert Warshaw, ST4:Apr 71:1129:8040
Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
Design of Steel Transmission Pole Structures, Gene M. Wilhoite, ST12:Dec 74:2449:11009
Design of Wood Columns for Flexural and Axial Loading, German R. Gurfinkel, ST11:Nov 70:2389:7701
Design Parameters for Thermal Shock Problems, Tauchao C. Fan, ST2:Feb 70:309:7088
Diagonal Tension Cracking in Concrete Beams with Axial Forces, Alan H. Mattock, ST9:Oct 69:1887:6776
Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73:655:9653
Differential Settlement of Hyperbolic Cooling Towers, Phillip L. Gould, ST10:Oct 72:2207:9252
Direct Design of Taut Cables under Uniform Loading, Anthony J. Wilson and Robert J. Wheen, ST3:Mar 74:565:10427
Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470
Discrete Structural Optimization, Kenneth F. Reinschmidt, ST1:Jan 71:133:7829
Displacements and Losses in Multistage Prestressed Members, Amin Ghali, Romy G. Sisodiya and Gamil S. Tadros, ST11:Nov 74:2307:10968
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72:2541:9345
Drag or Along-Wind Response of Slender Structures, Barry J. Vickery and Kwan H. Kao, ST1:Jan 72:21:8635
Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
Dynamic Analysis of Cable-Stiffened Structures, Nicholas F. Morris, ST5:May 74:971:10556
Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72:1817:9127
Dynamic Analysis of Multibay Multistory Frames, Masaaki Suko and Peter F. Adams, ST10:Oct 71:2519:8443
Dynamic Analysis of Staggered Truss Framing System, Raj P. Gupta and Subhash C. Goel, ST7:July 72:1475:9038
Dynamic K_c Testing of Structural Steel, Ronald B. Madison and George R. Irwin, ST7:July 74:1331:10653
Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595
Dynamic Properties of Tall Shear-Wall Buildings, George T. Taoka, Augustine S. Furumoto and Arthur N.L. Chiu, ST2:Feb 74:305:10336
Dynamic Response of Cable Networks, Nicholas F. Morris, ST10:Oct 74:2091:10895
Dynamics of Cambered Rapid-Transit Bridge, Nelson M. Isada, ST7:July 69:1553:6701
Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988
Dynamic Soil-Structure Interaction, Mauricio A. Sarrazin, ST7:July 72:1525:9026
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
Dynamic Wind Stresses in Hyperbolic Cooling Towers, Salman H. Abu-Sitta and Mahmoud G. Hashish, ST9:Sept 73:1823:9989
Earthquake Design Criteria for Subways, Thomas R. Kuesel, ST6:June 69:1213:6616
Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383:8399
Earthquake Design of Cooling Towers, Salman H. Abu-Sitta and Alan G. Davenport, ST9:Sept 70:1889:7524
Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
Earthquake Response of a Ramberg-Osgood Structure, Movses J. Kaldjian and William R.S. Fan, ST10:Oct 68:2451:6196
Earthquake Response of Arch Dams, Umesh Chandra Tahbildar and Hugh Tottenham, ST11:Nov 70:2321:7681
Eccentrically Loaded Circular Plates on Columns, Kasem Chantaramungkorn, Pasidhi Karasudhi and Seng-Lip Lee, TN: ST1:Jan 73:234:9464
Eccentrically Loaded Columns, Alexander Chajes, TN: ST2:Feb 74:493:10341
Edge Effects in Hyperbolic Paraboloid Shells, J. G. A. Croll and J. C. Scrivener, ST3:Mar 69:457:6481
Effective Width of Steel Deck-Plate in Bridges, George Abdel-Sayed, ST7:July 69:1459:6673
Effective Width of Thin Plates in Compression, George Abdel-Sayed, ST10:Oct 69:2183:6837
Effect of Curvature on Nonlinear Frame Analyses, Mike E. James, Jr., Thomas J. Kozik and Jose E. Martinez, ST7:July 74:1451:10681
Effect of Major Axis Curvature on I-Beam Stability, Nicholas S. Trahair and Scott T. Woolcock, EM1:Feb 73:85:9548
Effects of Creep and Shrinkage on Prestressed Concrete Columns, William J. Wilhelm and Paul Zia, ST10:Oct 70:2103:7614
Effects of Initial Curvature on Column Strength, Wai F. Chen, TN: ST12:Dec 70:2685:7717
Efficient Reanalysis of Modified Structurei, Dag Kavlie and Graham H. Powell, ST1:Jan 71:377:7846
Efficient Solution of Load-Deflection Equations, Robert J. Melosh and R. M. Bamford, ST4:Apr 69:661:6510
Efficient Solutions for Linear Matrix Equations, H. Gordon Jensen and Gary A. Parks, ST1:Jan 70:49:7007
Elastic Analysis of Frameworks with Elastic Connections, Edgar Lightfoot and Andrew P. Le Messurier, ST6:June 74:1297:10632
Elastic Analysis-Strength of Members and Connections, Theme Report, Russell S. Fling, TB:73:III-21-149
Elastic Behavior of Biaxially Loaded Steel Columns, Ishwar C. Syal and Satya S. Sharma, ST3:Mar 70:469:7143
Elastic Buckling of Stiffened Plates, Charles G. Culver and Clive L. Dym, TN: ST11:Nov 72:2641:9374
Elastic Lateral Buckling of Portal Frames, Porpan Vacharajittiphan and Nicholas S. Trahair, ST5:May 73:821:9720
Elastic Lateral Buckling of Steel Beam, Graham H. Powell and Richard Klingner, ST9:Sept 70:1919:7555
Elastic Lateral Buckling of Stepped I-Beams, Nicholas S. Trahair and Sritawat Kitipornchai, ST10:Oct 71:2535:8445
Elastic-Plastic Analysis of Frameworks, Glenn A. Morris and Steven J. Fenves, ST5:May 70:931:7293
Elastic-Plastic Bending of Rectangular Plates, Gerald W. May and Kurt H. Gerstle, ST7:July 71:1863:8237
Elastic Stability of Continuous Beams, Nicholas S. Trahair, ST6:June 69:1295:6632
Elastic Stability of Symmetrical Single-Bay Frames, D. Melville Porter, TN: ST8:Aug 70:1857:7446
Elastic Stability of Tapered I-Beams, Sritawat Kitipornchai and Nicholas S. Trahair, ST3:Mar 72:713:8775
Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920
Elasto-Plastic Analysis of Ribbed Plates, Harvey A. Kagan and G. G. Kubo, ST4:Apr 68:943:5892
Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46
Element Stiffness Matrix Generator, Richard H. Gunderson and Ayhan Cetiner, ST1:Jan 71:363:7842
Empirical Frequency Analysis of Bridge Deck Slabs, Simon F. Ng and Garnesh G. Kulkarni, TN: ST4:Apr 74:842:10456
Engineering Education and the Origins of Modern Structures, David P. Billington, CE:Jan 69:52

Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64

Engineers' Inquiry Box: Roof-Tie Downs For Wind Uplift, Peter A. Strobel, CE:Dec 73:64

Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79

Engineer's Notebook: Ultimate Strength Design Of Circular Reinforced Concrete Cross Sections, George Fekete, CE:Nov 73:80

Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7

Error Analysis For Rectangular Finite Elements, Chiyyarath V. Girijavallabhan and Ramakrishna Narayanaswami, TN: ST1:Jan 72:413:8619

Errors in Step Wise Solutions to Bridge Vibrations, David R. Schelling, ST10:Oct 70:2045:7600

Estimating Cracking Behavior of Metallic Structures, W. E. Anderson and Lee A. James, ST4:Apr 70:773:7213

Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849

Expected Value of Ultimate Load Factor, Alberto Castellani, TN: ST2:Feb 73:291:9545

Experiences with Interactive Computing System, LeRoy T. Boyer and John C. Casson, ST1:Jan 71:289:7853

Experience with POL Environment, Edward L. Murphree and John W. Melin, ST1:Jan 71:301:7835

Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236

Experimental Stresses and Strains from Heat Curving, Roger L. Brockenbrough and Kenneth D. Ives, ST7:July 70:1305:7400

Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145

Experimental Study of Flexural-Torsional Buckling, Alois J. Hartmann, ST7:July 70:1481:7414

Experimental Study of Lateral Buckling of Arches, Frank J. Tokarz, ST2:Feb 71:545:7893

Experiments on Nonsway Structural Subassemblages, Eugene L. Sheninger and Le-Wu Lu, ST3:Mar 70:573:7159

Explicit Triangular Bending Element Matrix, William S. Doyle and Robert L. Harrison, ST7:July 74:1459:10680

Fabrication and Tests of Structural Models, John E. Breen, ST6:June 68:1339:5989

Factors Affecting Durability of Ferrous Metals in the Atmosphere, Francis L. LaQue, ST11:Nov 69:2385:6890

Factors Affecting Environmental Performance of High-Strength Bolts, Walter K. Boyd and W. S. Hyler, ST7:July 73:1571:9866

Failure Modes of Folded Sandwich Panel Roofs, Paul P. Fazio, ST5:May 72:1085:8913

Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409

Failure Probabilities of Reinforced Concrete Beams, James F. Costello and Kuang-han Chu, ST10:Oct 69:2281:6848

Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324

Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, STF:73:49

Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7:July 73:1439:9854

Fatigue Characteristics of Selected Plastics, Harry J. Duffey, Chmn., ST7:July 70:1567:7429

Fatigue Damage Factor in Structural Design, Jhy-Pyng Tang and James T.P. Yao, ST1:Jan 72:125:8647

Fatigue Damage in Seismic Structures, Iyadurai Kasiraj and James T. P. Yao, ST8:Aug 69:1673:6727

Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624

Fatigue of A514 Steel in Bolted Connections, Peter C. Birkemoe, Donald F. Meinheit and William H. Munse, ST10:Oct 69:2011:6811

Fatigue of Bolted High Strength Structural Steel, Peter C. Birkemoe and Ramachandran Srinivasan, ST3:Mar 71:935:7997

Fatigue of Cover Plated Beams Under Varying Loads, Francis A. Murad and Conrad P. Heins, Jr., ST4:Apr 72:915:8855

Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823

Fatigue Reliability and Design, James T.P. Yao, ST9:Sept 74:1827:10782

Fatigue Strength of Hybrid Plate Girders, A. Anthony Toprac and Murugesam Natarajan, ST4:Apr 71:1203:8069

Fatigue Strength of Rolled and Welded Steel, Manfred A. Hirt, Ben T. Yen and John W. Fisher, ST7:July 71:1897:8238

Fatigue Tests of Beams with Rectangular Web Holes, Ronald W. Frost and Robert E. Leffler, SM2:Feb 71:509:7913

Fatigue Tests of Prestressed Concrete I-Beams, John M. Hanson, Cornie L. Hulsbos and David A. VanHorn, ST11:Nov 70:2443:7705

Ferrocement—Material Behavior in Flexure, Colin D. Johnston and Dallas N. Mowat, ST10:Oct 74:2053:10878

Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72

Field Analysis of Torsionless Bridge Grids, J. C. Smith and Donald L. Dean, ST9:Sept 73:1837:10031

Field Solutions for Shear Grids, Donald L. Dean, ST12:Dec 71:2845:8594

Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12:Dec 72:2647:9407

Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730

Finite-Difference Methods for Plate Vibration Problems, Harold J. Salane and Hudson Matlock, ST3:Mar 69:441:6477

Finite Element Analysis of Concrete Beams, Chung-Hyun Nam and Charles G. Salmon, ST12:Dec 74:2419:11016

Finite Element Analysis of Hyperbolic Paraboloid Shells, Semih S. Tezcan, Krishna M. Agrawal and George Kostro, ST1:Jan 71:407:7847

Finite Element Analysis of Metal Deck Shear Diaphragms, Arthur H. Nilson and Albert R. Ammar, ST4:Apr 74:711:10467

Finite Element Analysis of Plywood Plates, John McGlenn and Billy J. Hartz, ST2:Feb 68:551:5821

Finite Element Analysis of Reinforced Concrete Slabs, Jan C. Jofriet and Gregory M. McNeice, ST3:Mar 71:785:7963

Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081

Finite-Element Analysis of Skewed Shallow Shells, David A. Pecknold and William C. Schnobrich, ST4:Apr 69:715:6523

Finite Element Approach to Plane Microelasticity, Mohammed H. Baluch, John E. Goldberg and Severino L. Koh, ST9:Sept 72:1957:9203

Finite Element for Reinforced Concrete Frame Study, Wayne C. Kroenke, Martin J. Gutzwiller and Robert H. Lee, ST7:July 73:1371:9835

Finite Element Method for Wood Mechanics, Adam Al-Dabbagh, James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784

Finite Element on Elastic Foundation, Henry T.Y. Yang, ST10:Oct 70:2083:7604

Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773

Finite Element Thermoelastoplastic Analysis, Norman A. Cyr, Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068

Finite Segment Analysis of Folded Plates, Kam-Shing Lo and Alexander C. Scordelis, ST5:May 69:831:6544

Fire Intensity-Resistance Evaluation, Edward M. Krokosky, ST11:Nov 70:2501:7706

Fire Resistance of Unprotected Steel Columns, W. W. Stanzak and T. T. Lie, ST5:May 73:837:9719

Flexibility Influence Functions for Curved Beams, Myron C. Young, ST7:July 69:1407:6657

Flexible Culverts Under High Fills, Colin B. Brown, David R. Green and Stuart Powsey, ST4:Apr 68:905:5888

Flexural Members with Confined Concrete, Dudley Charles Kent and Robert Park, ST7:July 71:1969:8243

Flexural Rigidity of Concrete Column Sectione, Ian C. Medland and Donald A. Taylor, ST2:Feb 71:573:7933

Folded Plate Structures by Finite Strip Method, Yau-kai Cheung, ST12:Dec 69:2963:6985

Formulation of Decision Logic Tables, Jimmy L. Noland and Chuan C. Feng, ST1:Jan 71:439:7855

Formulation of Structural Reliability, James T.P. Yao and Hsiang-Yueh Yeh, ST12:Dec 69:2611:6939

FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779

Fracture Analysis of King's Bridge, Melbourne, Ronald B. Madison and George R. Irwin, ST9:Sept 71:2229:8377

Fracture and Stress-Strain Relationship of Concrete Under Triaxial Compression, Ranga Palaniswamy and Surendra P. Shah, ST5:May 74:901:10547

Framed Tube Structures for High-Rise Buildings, Alexander Coull and Nutan Kumar Subedi, ST8:Aug 71:2097:8301

Frame Vibrations by Consistent Mass Matrix, Fernando Venancio-Filho and Fernando Iguti, TN: ST9:Sept 73:1965:9968

Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806

Free Vibration of Arches Flexible in Shear, Walter J. Austin and Anestis S. Veletsos, EM4:Aug 73:735:9913

Free Vibration Of Horizontally Curved Beams, Sidney Shore and Swapan Chaudhuri, TN: ST3:Mar 72:793:8755

Free Vibration of Two-Dimensional Frameworks, Karl-Robert Leimbach and Donald McDonald, ST2:Feb 70:267:7082

Frequency Analysis of Complete Spherical Shells, Carl F. Long, EM3:June 69:505:6591

Full-Range Analysis of Concrete Frames, Angel L. Lazaro, III and Rowland Richards, Jr., ST8:Aug 73:1761:9934

Full Range Analysis of Eccentrically Stiffened Plates, Anton W. Wegmuller, ST1:Jan 74:143:10286

Full-Size Lightweight Concrete Column4, Donald W. Pfeifer, ST2:Feb 71:495:7903

Further Studies of Inelastic Beam-Column Problem, Wai F. Chen, ST2:Feb 71:529:7922

Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231

General Analysis of Laterally Loaded Beam-Columns, Francois Cheong Siat Moy, ST6:June 74:1263:10625

General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73:365:9604

General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776

General Treatment of Structural Modifications, John H. Argyris and John R. Roy, ST2:Feb 72:465:8732

Geometrically Nonlinear Analysis by Stiffness Method, James A. Stricklin, Walter E. Haisler and Walter A. Von Riesemann, ST9:Sept 71:2299:8392

Geometric Nonlinearity in Nonprismatic Members, Cenap Oran, ST7:July 74:1473:10679

Glossary of Terms Pertaining to Structural Steel Engineering and Design, Roland R. Graham, Jr., Chmn., ST8:Aug 71:2137:8322

Grain Storage Structures for Food Deficient Areas, Alexander M. Turitzin, ST10:Oct 69:2161:6835

Grid Moment Maximization by Mathematical Programming, Francois N. Ayer and C. Allin Cornell, ST2:Feb 68:529:5818

Guide for the Design of Aluminum Formed-Sheet Building Sheathing, Robert B.B. Moorman, Chmn, ST8:Aug 69:1727:6744

Guide for the Design of Aluminum Transmission Towers, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457

Guide to Development and Use of Electronic Computer Programs: Documentation, Francis E. Swain, ST9:Sept 69:1825:6760

Gust Factors and Alongwind Pressure Correlations, Emil Simiu, ST4:Apr 73:773:9686

Gust Response Factors, Joseph Vellozzi and Edward Cohen, ST6:June 68:1295:5980

Handsome Civil Engineering Structures, CE:May 70:56

Hardy Cross and the Rise of Numerical Methods, James Michalos, ST3:Mar 72:691:8762

High Cycle Fatigue of Connections and Details, State-of-Art Report 4, John W. Fisher and T. R. Gurney, TB:73:II-18-757

High-Rise Panel Structures, Matthys P. Levy and Istvan S. Varga, ST5:May 72:975:8894

High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410

Hollow Tubular Beam-Columns in Biaxial Bending, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1399:8094

Horizontally Curved Bridges Subject to Moving Load, Paul P. Christiano and Charles G. Culver, ST8:Aug 69:1615:6713

Horizontally Curved Girders-State of the Art, Paul F. McManus, Ghulam A. Nasir and Charles G. Culver, ST5:May 69:853:6546

Horizontal Thermal Movement of Curved Bridge Decks, Heinz G. Juhl, ST10:Oct 70:2037:7590

How Safe are Your Poles?, Joseph R. Arena, ST7:July 73:1333:9848

How Safe Are Your Towers?, Joseph R. Arena, ST1:Jan 70:1:6994

Human Perception of Transient Vibrations, John F. Wiss and Richard A. Parmelee, ST4:Apr 74:773:10495

Human Perception Thresholds of Horizontal Motion, Peter W. Chen and Leslie E. Robertson, ST8:Aug 72:1681:9142

Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811

Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868

Hyberboloidal Shells on Discrete Supports, Subir K. Sen and Phillip L. Gould, TN: ST3:Mar 73:595:9629

Hydrodynamic Effects in Earthquake Response of Gravity Dams, P. Chakrabarti and Anil K. Chopra, ST6:June 74:1211:10616

Hyperbolic Cooling Towers Under Wind Load, Seng-Lip Lee and Phillip L. Gould, ST5:Oct 67:487:5532

Hyperbolic Functions for Prestress Loss and Camber, Raouf Sinno and Howard L. Furr, ST4:Apr 70:803:7227

Hyperbolic Paraboloid Structures on Four Supports, Roy R. Russell and Kurt H. Gerstle, ST4:Apr 68:995:5902

Hypothesis for Shear Failure of Brickwork, Bryan Stafford Smith and Clifford Carter, ST4:Apr 71:1055:8029

Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, ST9:Sept 74:1789:10779

Impact Resistance of Ferro-Cement, Surendra P. Shah and William H. Key, Jr., ST1:Jan 72:111:8640

Improved Two-Dimensional Finite Element, Robert D. Cook, ST9:Sept 74:1851:10808

Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478

Inelastic Analysis of Multistory Multibay Frames, Ronald J. Alvarez and Charles Birnstiel, ST11:Nov 69:2477:6922

Inelastic Analysis of R/C Frame Structures, Shunsuke Otani, ST7:July 74:1433:10686

Inelastic Analysis of Reinforced Concrete Frames, Leone Corradi, Osvaldo De Donato and Giulio Maier, ST9:Sept 74:1925:10832

Inelastic Analysis of Suspension Roof Structures, Donald P. Greenberg, ST5:May 70:905:7284

Inelastic Bar Subjected To Thrust and Cyclic Bending, Ben Kato and Hiroshi Akiyama, ST1:Jan 69:33:6335

Inelastic Behavior Of R/C Cylindrical Shells, Harry G. Harris and Richard N. White, ST7:July 72:1633:9074

Inelastic Bending of Wood Beams, Borislav D. Zakic, ST10:Oct 73:2079:10071

Inelastic Buckling of Monosymmetric I-Beams, David A. Nethercot, TN: ST7:July 73:1696:9828

Inelastic Deflections of Beams, Alexander Chajes, ST6:June 68:1549:6012

Inelastic Flange Buckling of Curved Plate Girders, Charles G. Culver and Ghulam A. Nasir, ST4:Apr 71:1239:8072

Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062

Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957

Inelastic Shear Deflection of Steel Beams, Dale G. Eyre, ST10:Oct 73:1985:10052

Inelastic Spatial Stability of Restrained Beam-Columns, Sriramulu Vinnakota and Pentti Aysto, ST11:Nov 74:2235:10919

Inelastic Stability of Unbraced Building Frames, Chitti Vijakkhana, Fumio Nishino and Seng-Lip Lee, ST3:Mar 74:645:10433

Inelastic Stiffened Suspension Space Structures, John J. Jonatowski and Charles Birnstiel, ST6:June 70:1143:7364

Influence Lines for Beams on Elastic Supports, Edward N. Wilson, TN: ST6:June 74:1325:10596

Influence of Details on Fatigue Behavior of Structures, Harold Mindlin, ST12:Dec 68:2679:6286

Influence of Edge Cables on Cable Network Behavior, Nejat Tugcu, TN: ST9:Sept 73:1970:9968

Influence of Joints in Panelized Structural Systems, Eric F.P. Burnett and R. Clement S. Rajendra, ST9:Sept 72:1943:9207

Influence of Soil Conditions on Building Damage Potential During Earthquakes, H. Bolton Seed and Izzat M. Idriss, ST2:Feb 71:639:7909

Influence Surfaces for Continuous Plates, Richard E. Woodring and Chester D. Seiss, ST1:Jan 68:211:5755

Influence Surfaces for Curved Multibeam Bridges, Cenap Oran and Sheng Ching Lin, ST7:July 73:1349:9846

In-Plane Bending and Buckling of Arches, Walter J. Austin, ST5:May 71:1575:8130

Inspection of Steel Bridges For Fatigue Damage, by the Subcommittee on Inspection of Steel Bridges for Fatigue of the Task Committee on Structural Fatigue of the Structural Division, Ivan M. Viest, Chmn., ST8:Aug 71:2107:8321

Integral Equation Method for a Corner Plate, Cecil M. Segedin and D. Brickell, ST1:Jan 68:41:5711

Integrated System For RC Building Design, John M. Biggs, Peter J. Pahl and Harry N. Wenke, ST1:Jan 71:13:7816

Interaction Between Frames and Precast Panel Walls, Atle Gjelsvik, ST2:Feb 74:405:10374

Interaction Equations for Biaxially Loaded Sections, Wai F. Chen and Toshio Atsuta, ST5:May 72:1035:8902

Interaction of Aircraft and Ground Structure, Nai C. Yang, ST6:June 70:1119:7360

Interaction of Bents with Box Girders, Richard N. Wright, TN: ST6:June 70:1265:7315

Interactive Graphics: Settlement and Slope Stability, Robert L. Schiffman and Jack R. Stein, ST1:Jan 71:253:7832

Inverse Problem of Structural Optimization, Jasbir S. Arora, TN: ST11:Nov 74:2355:10904

Investigation of Polymer-Impregnated Brick Masonry, David W. Fowler and Thomas J. Fraley, ST1:Jan 74:1:10278

Irregular Supports and Skew Diaphragms of Box Girders, Vladimir Kristek, ST5:May 74:917:10541

Iterative Method for Solving Rectangular Plates, B. Sen, S. Sengupta and T. K. Nath, ST1:Jan 72:135:8644

Kazerne Viaduct Collapse, Konstant E. Bruinette, Alan J. Ockleston and Pieter C. Pretorius, ST2:Feb 74:335:10361

Large Bolted and Riveted Shingle Splices, John W. Fisher and Noriaki Yoshida, ST9:Sept 70:1903:7534

Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788

Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455

Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359

Large Deflections of Curved Plates, Henry W.L. Lee and Conrad P. Heins, Jr., ST4:Apr 71:1143:8045

Large Displacement Analysis of Thin Plates, James Colville, Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593

Lateral Analysis of Plywood Diaphragms, Warren H. Bower, ST4:Apr 74:759:10494

Lateral Buckling of Constrained Beams, Thomas G. Morrison, ST3:Mar 72:741:8793

Lateral Buckling of Parabolic Arches with Tilting Loads, Shyam N. Shulka and Morris Ojalvo, ST6:June 71:1763:8209

Lateral-Load Analysis of Asymmetric Multistory Structures, Jacob Gluck, ST2:Feb 70:317:7089

Lateral Loads in Asymmetric Multistory Structures, Arnold Winokur and Jacob Gluck, ST3:Mar 68:645:5842

Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599:8786

Lateral Stability of Plane Open-Web Structures, P. C. Varghese, ST11:Nov 74:2223:10924

Lateral Stability of Welded Light Trusses, John A. Hribar and William P. Laughlin, ST3:Mar 68:809:5873

Lateral Stability of Wood Beam-and-Deck Systems, John J. Zahn, ST7:July 73:1391:9829

Lateral-Torsional Buckling of Bulit-Up Beam-Columns, Hiroshi Yoshida and Susumu Nishida, TN: ST7:July 73:1713:9828

Lift or Across-Wind Response to Tapered Stacks, Barry J. Vickery and Arthur W. Clark, ST1:Jan 72:1:8634

Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736

Limit Analysis of Structures, Dusan Krajcinovic, ST9:Sept 69:1901:6778

Limit States Design of Slabs Using Lower Bound Approach, B. Vijaya Rangan, ST2:Feb 74:373:10348

Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439:10232

Linear Theory of Orthotropic Cylindrical Shells, Osman A. Marzouk and George Abdel-Sayed, ST11:Nov 73:2287:10143

Live Load Effect on Dynamic Response of Structures, Anjur R. Chandrasekaran and Sarjit S. Saini, ST4:Apr 69:649:6503

Live Load Effects in Office Buildings, Robin K. McGuire and C. Allin Cornell, ST7:July 74:1351:10660

Load Carrying Capacity of Simple Composite Columns, J. W. Roderick and D. F. Rogers, ST2:Feb 69:209:6412

Load Distribution in Multiple-Bolt Tension Joints, Calvin O. Cramer, ST5:May 68:1101:5939

Load Distribution in Steel Railway Bridges, Wallace W. Sanders, Jr. and William H. Munse, ST12:Dec 69:2763:6952

Local and Overall Buckling of Cold-Formed Members, John T. DeWolf, Teoman B. Pekoz and George Winter, ST10:Oct 74:2017:10875
Local Instability of Horizontally Curved Members, Charles G. Culver and Ralph E. Frampton, ST2: Feb 70:245:7079
Local Plastic Buckling of A514 Steel Members, John F. McDermott, ST9:Sept 69:1837:6761
Longitudinally Restrained Reinforced Concrete Beams, German R. Gurfinkel and Chester P. Siess, ST3:Mar 68:709:5859
Long-Span Steel Deck Railroad Bridge, Roman Wolchuk and J. C. Bridgefarmer, CE:Apr 70:71
Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741
Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617
Lower Strength Steel Brittle Fracture Assessment, Mohammed H. Magued and D J. Laurie Kennedy, ST5:May 74:983:10551
Lumped Parameter Model for Stability Analysis, Walter D. Pilkey and Kevin J. O'Connor, TN: ST7: July 73:1702:9828
Machine Stress Rated Lumber: Challenge to Design, William L. Galligan and Delos V. Snodgrass, ST12: Dec 70:2639:7772
Main Cables of Newport Suspension Bridge, Blair Birdsall, ST12:Dec 71:2825:8606
Man-Oriented Program System for Engineering, George Rabe and Vincent A. Trossello, ST1:Jan 71: 223:7850
Material Safety Requirements of Hyperbaric Facilities, William J. Bobisch and Michael Yachnis, ST7:July 72:1465:9019
Matrix Distribution, Ralph Mozingo, ST4:Apr 68: 1043:5918
Matrix Force Analysis of Thin-Walled Structures, Dusan Krajcinovic, ST1:Jan 70:107:7024
Maximization of Eigenvalues by Conjugate Gradients, Carlos A. Prato, TN: ST1:Jan 70:171: 7025
Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71: 2837:8604
Mechanisms of Shear Resistance of Concrete Beams, R. C. Fenwick and Thomas Paulay, ST10:Oct 68: 2325:6167
Membrane Analogy for Anisotropic Cable Networks, Bhupinder Pal Singh and Bhushan Lal Dhoopar, ST5:May 74:1053:10544
Metal Structure Geriatrics, Harry Czyzewski and Earl C. Sutherland, CE:July 69:67
Method of Analysis of Laterally Loaded Columns, Francois Cheong Siat Moy, ST5:May 74:953:10548
Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043: 9195
Minimum Reinforcement in Clamped Square Slabs, Manhar C. Thakkar and Jawalker K. Sridhar Rao, TN: ST3:Mar 70:751:7118
Minimum Weight Design of Enclosed Antennas, Mehdi S. Farghamee, ST6:June 69:1139:6592
Minimum Weight Design of Hyperbolic Cooling Towers, Phillip L. Gould, ST2:Feb 69:203:6395
Minimum Weight Design of Light Gage Steel Members, Paul A. Seaburg and Charles G. Salmon, ST1:Jan 71:203:7830
Minimum Weight Design of Stress Limited Trusses, Behrooz Farshi and Lucien A. Schmit, Jr., ST1:Jan 74:97:10259
Minimum Weight Design with Stability Constraint, Mehdi S. Zarghamee, ST8:Aug 70:1697:7486
Minimum Weight Proportions for Steel Girders, Edward C. Holt and Gary L. Heithecker, ST10:Oct 69:2205:6838
Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, Toshiharu Hisatoku and Fujio Nishikawa, TB:73:Ia-3-501
Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603
Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3: June 72:561:8958
Modal Response of Structures, Paul H. Wirsching and James T.P. Yao, TN: ST4:Apr 70:879:7191
Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165: 8631
Model-free Design of Aseismic Structures, Rudolf F. Drenick, EM4:Aug 70:483:7496
Model Investigations of Shear Wall Structures, Alexander Coull and Andrew W. Irwin, ST6:June 72:1223:8936
Models For Approximate Frame Analysis, Donald L. Dean and R. Richard Avent, TN: ST8:Aug 72: 1903:9086
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998
Model Test and Analysis of Oblique Folded Plate Structure, James N. Siddall, Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043: 9772
Moment Redistribution in Precast Concrete Frame, Harold W. Conner, Paul H. Kaar and W. Gene Corley, ST3:Mar 70:637:7168
Moment-Resistance Connections in Precast Concrete, Emile Langlois and Joseph Menec, Jr., ST12:Dec 69:2723:6947
Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
Monte Carlo Study of Seismic Structural Safety, Paul H. Wirsching and James T. P. Yao, ST5:May 71: 1497:8118
Monte Carlo Study of Structural Safety, Robert F. Warner and A. P. Kabaila, ST12:Dec 68:2847:6275
Motar Models of Prestressed Concrete Reactor Vessels, James M. Corum, Richard N. White and Jack E. Smith, ST2:Feb 69:229:6419
Movable Roof for Municipal Pool, Stewart C. Barnett, CE:Jan 70:61
Multicell Curved Girder Model Studies, Conrad P. Heins, Jr., Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835
Multiple Configuration Analysis Via Mixed Method, Ahmed K. Noor, TN: ST9:Sept 74:1991:10775
Natural Frequencies of Circular Arches, Joseph A. Wolf, Jr., ST9:Sept 71:2337:8393
Natural Frequency on Programmable Calculator, Michael J. O'Rourke, TN: ST10:Oct 74:2169:10858
Need For Diaphragms in Concrete Box Girders, Denison Campbell-Allen and Raymond J.L. Wedgwood, ST3:Mar 71:825:7965
New Books On Structural Analysis, CE:Nov 71:70
New Rectangular Finite Element for Shear Wall Analysis, Iain A. MacLeod, ST3:Mar 69:399:6464
Nonlinear Analysis Method for Circular Plates, James G. Crose and Alfredo H.-S. Ang, EM4:Aug 69:979:6746
Nonlinear Analysis of Cable and Truss Structures, Frank Baron and Mahadeva S. Venkatesan, ST2: Feb 71:679:7937
Nonlinear Analysis of Elastic Framed Structures, Jerome J. Connor, Robert D. Logcher and Shing-Ching Chan, ST6:June 68:1525:6011
Nonlinear Analysis of Pin-Jointed Space Trusses, Marcelo Epstein and Yair Tene, ST9:Sept 71:2189: 8357
Nonlinear Analysis of Space Trusses, Ahmed K. Noor, ST3:Mar 74:533:10419
Nonlinear Beam and Plate Elements, Jimmy H. Smith, ST3:Mar 72:553:8768
Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10: Oct 73:2011:10091

Nonlinear Dynamic Analysis of Frames with Filler Panels, Garrison Kost, William Weaver, Jr. and Russell B. Barber, ST4:Apr 74:743:10481

Nonlinear Earthquake Behavior of Tall Buildings, Ray W. Clough and Kalmar L. Benuska, EM3:June 67:129:5292

Nonlinear Elastic Truss Analysis Partitioning, N. M. Singaraj and Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364

Nonlinear Field Analysis of Structural Nets, R. Richard Avent, ST5:May 69:889:6556

Nonlinear Formulations of Beam-Column Effects, Frank Baron and Mahadeva S. Venkatesan, ST4: Apr 71:1305:8080

Nonlinear Seismic Response Evaluation - Charaima Building, Stephen A. Mahin and Vitelmo V. Bertero, ST6:June 74:1225:10614

Nonlinear Stress Analysis of Reinforced Concrete, Somasundaram Valliappan and T. F. Doolan, ST4: Apr 72:885:8845

Nonlinear Structural Analysis by Energy Search, Robert H. Mallett and Lucien A. Schmit, Jr., ST3: June 67:221:5285

Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263

Nonsymmetric Vibrations of Thin Cylindrical Shells, Chi-Wen Lin, ST10:Oct 70:2175:7632

Nonuniform Torsion of Composite Beams, Paul F. McManus and Charles G. Culver, ST6:June 69: 1233:6623

Nonuniform Torsion of Steel Beams in Inelastic Range, Charles R. Farwell and Theodore V. Galambos, ST12:Dec 69:2813:6964

Numerical Approximation For Reliability Analysis, Niels C. Lind, TN: ST3:Mar 72:797:8755

Numerical Error in Structural Solutions, John R. Roy, ST4:Apr 71:1039:8036

Numerical Integration of Forced-Vibration Equations, Adam Cakiroglu and Gunay Ozmen, EM3:June 68: 711:5968

Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785

On Adaptive Structural Design, William R. Spillers and Lewis Friedland, ST10:Oct 72:2155:9245

On the Applications of ICES and Universal Program Software Systems, Louis H. Klotz, CE:Feb 69:72

Optimal Design for Prescribed Buckling Loads, Kalayya Narayana Murthy and Paul P. Christiano, ST11:Nov 74:2175:10912

Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632

Optimal Fiber-Reinforced Plate Corners, Robert E. Melchers, TN: ST7:July 73:1692:9828

Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199

Optimal Multifactor Design Procedure for Sandwich Panels, Chester P. Smolenski and Edward M. Krokosky, ST4:Apr 70:823:7243

Optimization of Long-Span Cold-Formed Truss Purlins, Richard T. Douty and James O. Crooker, ST11:Nov 74:2275:10952

Optimization of Redundant Prestressed Structuree, Leonard Spunt, ST12:Dec 70:2589:7755

Optimization of Truss Geometry, Michael W. Dobbs and Lewis P. Felton, ST10:Oct 69:2105:6797

Optimum Beam Layout for Large Areas, Paul Grundy, ST8:Aug 71:2085:8304

Optimum Design by Partitioning into Substructures, Uri Kirsch, Max Reiss and Uri Shamir, ST1:Jan 72: 249:8645

Optimum Design of Framed Structures, Karl M. Romstad, ST:Dec 68:2817:6273

Optimum Design of Prestressed Plates, Uri Kirsch, ST6:June 73:1075:9777

Optimum Design of Reinforced Concrete Tanks, Robert E. Melchers and George I. N. Rozvany, EM6:Dec 70:1093:7739

Optimum Design of Trusses for Ultimate Loads, William S. LaPay and George G. Goble, ST1:Jan 71:157:7838

Optimum Elastic Design of Redundant Trusses, David Johnson and Derick M. Brotton, ST12:Dec 69:2589:6938

Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638

Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72: 1697:9154

Optimum Prestressed Tubular Columns, Ralph L. Barnett, ST2:Feb 70:291:7083

Optimum Proportions for I-Shaped Beams, Charles G. Schilling, ST12:Dec 74:2385:11007

Orthotropic Elastic Properties of Wood, James R. Goodman and Jozsef Bodig, ST11:Nov 70:2301: 7682

Out-of-Plane Buckling of Crane Booms, A. J. Kaninowski and Anatole Longinow, TN: ST10:Oct 70:2261:7572

Out-Of-plane Buckling of Curved Members, Morris Ojalvo, Edvins Demuts and Frank J. Tokarz, ST10: Oct 69:2305:6865

Overloads on Japan's 130 mph Railroad Structures, Tatsuo Nishiki and Shunta Shiraishi, ST6:June 70: 1017:7325

Parallel Processing Approach to Bridge Planning, Andrew K.C. Wong and Tung Au, ST1:Jan 71:115: 7822

Parametric Matrices of Some Structural Members, Leon Ru-Liang Wang, ST8:Aug 70:1735:7494

Parametric Study of Wind Loading on Structures, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634

Pattern Loading on Reinforced Concrete Floor Slabs, James O. Jirsa, Mete A. Sozen and Chester P. Siess, ST6:June 69:1117:6588

P-delta and Axial Column Deformation in Aseismic Frames, Subhash C. Goel, ST8:Aug 69:1693:6738

Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12: Dec 73:2345:10230

Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72: 1255:8937

Photoelastic Analysis of Concrete Storage Tanks, Robert Mark and David P. Billington, ST9:Sept 69: 1939:6791

Photoelastic Analysis of Free-Standing Stairs, K. Chandrashekhara and S. P. Srinivasan, TN: ST12: Dec 72:2836:9400

Photoelastic Analysis of Undersea Structures, Stanley K. Takahashi and Robert Mark, ST3:Mar 69:317: 6440

Photoelastic Study of Beams on Elastic Foundations, August J. Durelli, Vincent J. Parks, Carson K.C. Mok and Han-Chow Lee, ST8:Aug 69:1713:6739

Pierced Shear Walls of Stepwise Variable Thickness, Alexander Coull, TN: ST5:May 74:1157:10536

Plane Stress Reinforced Concrete Finite Elements, James Colville and Jamil Abbasi, ST5:May 74:1067: 10554

Plastic Analysis of a Plate Sealing a Fluid, Richard H. Lance and David N. Robinson, EM6:Dec 70: 1183:7742

Plastic Analysis of Transversely Loaded Frames, Neil Jackson, ST8:Aug 71:2047:8284

Plastic Behavior of Beams with Reinforced Holes, Judith G. Congdon and Richard G. Redwood, ST9: Sept 70:1933:7561

Plastic Behavior of Hollow Structural Sections, Robert M. Korol and John Hudoba, ST5:May 72: 1007:8872

Plastic Bending of A514 Steel Beams, John F. McDermott, ST9:Sept 69:1851:6762

Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848

Plastic Design for Buildings, George C. Driscoll, Jr., CE:Apr 69:56

Plastic Design of Coupled Frame-Shear Wall Structures, Peter F. Adams and James G. MacGregor, ST9:Sept 70:1861:7505

Plastic Design of Multistory Frames by Computer, George C. Driscoll, Jr., James O. Armacost, III and William C. Hansell, ST1:Jan 70:17:6995

Plastic Design of Multistory Steel Frames by Computer, Leroy Z. Emkin and William A. Litle, ST1:Nov 70:2373:7689

Plastic Liners for CANDU Containment Structures, E. C. Smith, ST10:Oct 71:2583:8435

Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323

Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72:1769:9148

Point-Matching Analysis of Curved Timber Beams, Ricardo O. Foschi, ST1:Jan 70:35:6998

Polymer as Surface Treatment for Concrete, Alvin H. Meyer, ST6:June 74:1205:10615

Ponding of Liquids on Flat Roofs, J. Chinn, A. H. Mansouri and Staley F. Adams, ST5:May 69:797:6539

Post-Buckled Strength of Large Space-Truss, John P. Wolf, TN: ST:July 73:1708:9828

Post-Buckling of Axially Compressed Plates, Archibald N. Sherbourne and Robert M. Korol, ST10:Oct 72:2223:9239

Post-Buckling of Geometrically Imperfect Plates, Ralph G. Dawson and Alastair C. Walker, ST1:Jan 72:75:8630

Post-Elastic Deflection of Plates, Roger Hooke, ST4:Apr 70:757:7206

Post-Local-Buckling Behavior of Continuous Beams, Shien T. Wang and Sheng S. Yeh, ST6:June 74:1169:10595

Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485

Preliminary Plastic Design of Tall Steel Frames, M. Bassam El Hafez and Graham H. Powell, ST9:Sept 74:1837:10796

Prestressed Beams in Torsion, Bending, and Shear, Robert L. Henry and Paul Zia, ST5:May 74:933:10560

Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906

Probabilistic Design for Random Fatigue Loads, Paul H. Wirsching and Edward B. Haugen, EM6:Dec 73:1165:10223

Probabilistic Models for Seismic Force Designs, Jack R. Benjamin, ST5:May 68:1175:5950

Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363:9328

Probability Distribution of Maximum Sustained Load, David T. Bickley, TN: ST11:Nov 74:2361:10904

Probability of Plastic Collapse Failure, James L. Jorgenson and John E. Goldberg, ST8:Aug 69:1743:6751

Procedure for Automating Aircraft Wing Structural Design, Gary L. Giles, ST1:Jan 71:99:7821

Procurement and Analysis of Structural Fatigue Data, Harold S. Reemsnyder, ST7:July 69:1533:6693

Progress Report on Steel Box Girder Bridges, Subcommittee on Box Girders of the ASCE-AASHO Task Committee on Flexural Members, Theodore V. Galambos, Chmn., ST4:Apr 71:1175:8068

Properties Of Discrete Optima In Structural Optimization, Aldo Cella, TN: ST3:Mar 72:787:8755

Properties of Pile Cushioning Materials, Thomas Charles Edwards, Lee L. Lowery, Jr. and Teddy J. Hirsch, ST7:July 69:1431:6663

Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654

Radial Stresses in Curved Timber Beams, Ricardo O. Foschi and Selwyn P. Fox, ST10:Oct 70:1997:7582

Railway Box-Girder Bridge Erected by Launching, Jackson L. Durkee, ST7:July 72:1443:9028

Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326

Rapid Reduction of Banded Stiffness Matrices, Frederic W. Williams, TN: ST5:May 73:967:9704

Rational Design of Light Gage Beams, Jeffrey L. Bluestein and Atle Gjelsvik, ST7:July 70:1535:7421

R/C Column Earthquake Response in Two Dimemsions, A. Emin Aktan, David A. Pecknold and Mete A. Sozen, ST10:Oct 74:1999:10864

Recent Developments in Plastic Design Practice, Lynn S. Beedle, Le-Wu Lu and Lee C. Lim, ST9:Sept 69:1911:6781

Recorded Stress Histories in Railroad Bridges, Freeman P. Drew, ST12:Dec 68:2713:6288

Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1:Jan 73:183:9501

Rehabilitation of Offshore Platforms, John J. Givens and Greg Carter, CE:Apr 70:47

Reinforced Concrete Beam-Column Connection, Eric F.P. Burnett and Rajendra P. Jajoo, ST9:Sept 71:2315:8395

Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011

Reinforced Concrete Response to Simulated Earthquakes, Tsuruzo Takeda, Mete A. Sozen and N. Norby Nielsen, ST2:Dec 70:2557:7759

Reinforcement for Torque in Spandrel L-Beams, Umakanta Behera, K. S. Rajagopalan and Phil M. Ferguson, ST2:Feb 70:371:7103

Relaxation Tests on Alloy Steel Bars, Murray A. Muspratt, ST5:May 71:1533:8128

Reliability Analysis of Frame Structures, John D. Stevenson and Fred Moses, ST11:Nov 70:2409:7692

Reliability-Based Structural Design, Fred Moses and John D. Stevenson, ST2:Feb 70:221:7072

Reliability Bases of Structural Safety and Design, Alfredo H.-S. Ang and C. Allin Cornell, ST9:Sept 74:1755:10777

Reliability of Redundant Cable System, Masaru Hoshiya, TN: ST11:Nov 71:2773:8490

Reliability of Structural Systems, Fred Moses, ST9:Sept 74:1813:10780

Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6:Dec 71:1625:8584

Research On Steel-Concrete Composite Beams, R. Paul Johnson, ST3:Mar 70:445:7122

Residual Stresses and Tubular Compression Members, Donald R. Sherman, ST3:Mar 71:891:8001

Residual Stresses in Curved Laminated Wood Beams, John J. Zahn, ST12:Dec 69:2873:6977

Residual Stress Measurement in Tubular Members, Donald R. Sherman, ST4:Apr 69:635:6502

Response Computation Using Truncated Taylor Series, Joseph E. Grant, EM2:Apr 71:295:8019

Response of Cooling Tower to Turbulent Wind, Noel J. Gardner, ST10:Oct 69:2057:6812

Response of Ground-Excited Elastoplastic Systems, Anestis S. Veletsos and William P. Vann, ST4:Apr 71:1257:8075

Response of Hyperbolic Cooling Towers to Turbulent Wind, Mahmoud G. Hashish and Salman H. Abu-Sitta, ST5:May 74:1037:10542

Response of Offshore Structures to Random Wave Forces, Anil K. Malhotra and Joseph Penzien, ST10:Oct 70:2155:7626

Response of Structures to Time-Varying Wind Loads, Arthur N.L. Chiu, ST2:Feb 70:381:7104

Response of Triangular Prisms in Turbulent Wind, Peter W. Chen, Alan G. Davenport, Nicholas Isyumov and Leslie E. Robertson, ST11:Nov 71:2679:8526

Response of Viscoelastically Restrained Beam, Frank A. Moughton, ST7:July 73:1607:9869

Restrained Elastic Beam-Columns, Nicholas S. Trahair, ST12:Dec 69:2641:6941

Reticulated Space Structures, James O. Crooker and Kenneth P. Buchert, ST3:Mar 70:687:7180

Review of Column Behavior Under Biaxial Loading, Wai F. Chen and Sakda Santathadaporn, ST12:Dec 68:2999:6316

Risk-Based Evaluation of Design Criteria, Bruce R. Ellingwood and Alfredo H.-S. Ang, ST9:Sept 74:1771:10778

Risk Evaluations for Offshore Structures, Peter W. Marshall, ST12:Dec 69:2907:6981
Roof Assembled on Ground, Hoisted into Place, Werner Blum and Philip Wesler, CE:Jan 74:44
Rotational Capacity of Prestressed Concrete Beams, Alfred G. Bishara and Gurcharan S. Brar, ST9:Sept 74:1883:10821
Rotation Capacity of Beams Under Moment Gradient, A. F. Lukey and Peter F. Adams, ST6: June 69:1173:6599
Safe Limit Loading of Folded Plate Structures, Morris N. Fialkow, ST10:Oct 72:2181:9249
Safety Against Dynamic Forces, Masanobu Shinozuka, ST9:Sept 74:1821:10781
Safety Factors and Probability in Structural Design, Alfredo H.-S. Ang and Mohammad Amin, ST7:July 69:1389:6667
Safety Of An Elastic Beam-Column, Colin B. Brown and Roger J. Evans, TN: ST3:Mar 72:805:8755
Sandwich Plate Structure Analysis by Finite Element, Paul P. Fazio and Kinh H. Ha, ST6:June 74:1243: 10593
The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE: Sept 72:95
Scaling Of Earthquake Accelerograms-A Simplified Approach, Asadour H. Hadjian, TN: ST2:Feb 72: 547:8688
Scenario For A Third Computer Revolution In Structural Engineering, Steven J. Fenves, EC5:70: 829
Scenario for a Third Computer Revolution in Structural Engineering, Steven J. Fenves, ST1:Jan 71:3:7812
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215: 10128
Seismic and Cyclonic Response of Continuous Frames, Gerald M. Smith, George C. Ernst and Mahendra Maheshwari, ST2:Feb 74:391:10355
Seismic Behavior of Multistory Braced Steel Frames, Subhash C. Goel and Robert D. Hanson, ST1:Jan 74:79:10288
Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135
Seismic Design of Soil-Structure Systems, Richard A. Parmelee and John H. Wronkiewicz, ST10:Oct 71: 2503:8437
Seismic Resistance of Concrete Frames with Grade 60 Reinforcement, Norman W. Hanson, ST6:June 71:1685:8180
Seismic Response of One Story X-Braced Frames, Enrique Bazan and Emilio Rosenblueth, TN: ST2: Feb 74:489:10341
Seismic Response of Structure-Foundation Systems, Richard A. Parmelee, David S. Perelman, Seng-Lip Lee and Leon M. Keer, EM6:Dec 68:1295:6264
Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt, James R. Goodman and Marvin E. Criswell, ST1:Jan 74:11:10274
Shakedown of Grids, Dale G. Eyre and Theodore V. Galambos, ST10:Oct 73:2049:10049
Shakedown of Strain-Hardening Structures, John D. Meyer and Kurt H. Gerstle, ST1:Jan 72:95:8641
Shakedown Tests on Steel Bars and Beams, Dale G. Eyre and Theodore V. Galambos, ST7:July 70: 1287:7395
Shallow Spherical Shells Under Apex Loads, Isadore K. Silverman and John R. Mays, ST1:Jan 74:249: 10262
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870
Shear Lag Analysis of Rectangular Full-Width Tube Junctions, Bharat L. Mehrotra and Ashok K. Govil, ST1:Jan 72:287:8665
Shear Lag in Stiffened Box Girders, David J. Malcolm and Richard G. Redwood, ST7:July 70: 1403:7409
Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876
Shear Strength of Large Beams, Howard P.J. Taylor, ST11:Nov 72:2473:9329
Shear Strength of Post-Tensioned Daps in Prestressed Concrete Beams, Ali A. Hamoudi and Michael K.S. Phang, ST12:Dec 74:2403:11011
Shear Strength of Post-Tensioned Daps in Prestressed Concrete Beams, Ali A. Hamoudi and Michael K.S. Phang, ST12:Dec 74:2403:11011
The Shear Strength of Reinforced Concrete Members, James G. MacGregor, Chmn., ST6:June 73:1091:9791
The Shear Strength of Reinforced Concrete Members—Slabs, by the Joint ASCE-ACI Task Committee 426 on Shear and Diagonal Tension of the Committee on Masonry and Reinforced Concrete of the Sturctural Division, Neil M. Hawkins, Chmn., ST8:Aug 74:1543:10733
Shear Strength of Reinforced Concrete Beams, Bengt B. Broms, ST6:June 69:1339:6636
Shell and Plate Analysis by Finite Elements, Rembert F. Jones, Jr., ST5:May 73:889:9744
Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999: 10096
Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488
Shrinkage and Shrinkage Restraints in Concrete Pavements, Shigeyoshi Nagataki, ST7:July 70:1333: 7402
Significance and Application of Stub Column Test Results, Ching K. Yu and Lambert Tall, ST7:July 71:1841:8231
Simple Interaction Equations for Beam-Columns, Wai F. Chen and Toshio Atsuta, ST7:July 72:1413:9020
Simplified Approach to Lower Bound Solutions of Slabs, B. Vijaya Rangan, TN: ST3:Mar 70:747:7118
Simply Supported Rectangular Double-Layered Grids, M. J.L. Hussey, A. I. Tarza and W. F.D. Theron, ST3:Mar 71:753:7954
Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, ST3:Mar 74: 687:10435
Simulated Seismic Loading of Spandrel Beams, Thomas Paulay, ST9:Sept 71:2407:8365
Skew and Elevated Support Effects on Curved Bridges, Donald W. Funkhouser and Conrad P. Heins, Jr., ST7:July 74:1379:10670
Slabs with Variable Straight Reinforcement, George I. N. Rozvany and Donald E. Charrett, ST5:May 71: 1521:8095
Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729: 8544
Slender Prestressed Concrete Columns, Samuel Aroni, ST4:Apr 68:875:5886
Solution of Differential Equations in Structural Mechanics, G. Michael Folie, TN: EM6:Dec 70: 1297:7715
Solution of Elastic Plates by Invariant Imbedding, Nestor Distefano and Jaime Schujman, EM5:Oct 71:1349:8424
Solution of Linear Equations--State-of-the-Art, Christian Meyer, ST7:July 73:1507:9861
Some Aspects of Office Design Live Loads, Wilfred W.C. Siu and Niels C. Lind, ST11:Nov 73:2245: 10159
Some Aspects of Office Design Live Loads, Wilfred W.C. Siu and Niels C. Lind, ST11:Nov 73:2245: 10159
Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
Some New Plastic Analysis and Design Techniques, Leroy Z. Emkin, TB:73:II-15-377
Some Orthotropic Skew Plate Finite Element Results, Gerard R. Monforton, TN: ST4:Apr 72:955:8838
Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
Southwell Plot for Beam-Columns, Robert H. Leicester, EM6:Dec 70:945:7750
Spaced Steel Columns, Bruce G. Johnston, ST5:May 71:1465:8109
Spandrel-Slab Interaction, Mario G. Salvadori, ST1: Jan 70:89:7017

Spatial and Temporal Variability of Live Loads, Jong-Cherng Peir and C. Allin Cornell, ST5:May 73:903:9747
Specifications and Design Relations, R. S. Fountain, William H. Munse and R. D. Sunbury, ST12:Dec 68:2751:6291
Specs-A Specification Production Computer System, Joseph M. Sussman, Robert D. Logcher and Howard C. Stotland, ST1:Jan 71:425:7844
Stability Analysis of Frameworks by Matrix Methods, Ottar P. Halldorsson and Chu-Kia Wang, ST7:July 68:1745:6032
Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913:8253
Stability Behavior Illustrated by Simple Models, Alexander Chajes, ST6:June 69:1153:6598
Stability of Asymmetric Structures—Research Needs, Peter F. Adams, ST11:Nov 74:2271:10960
Stability of Braced and Unbraced Frames, James H. Davison and Peter F. Adams, ST2:Feb 74:319:10371
Stability of Columns Subject to Impulsive Loading, Siegfried M. Holzer and Robert A. Eubanks, EM4:Aug 69:897:6734
Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683
Stability of Monosymmetric Beams and Cantilevers, John M. Anderson and Nicholas S. Trahair, ST1:Jan 72:269:8646
Stability of Novel Building Systems, State-of-Art Report 5, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-499
Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, James G. Mac Gregor, TB:73:III-23-517
Stability of Shells by Parametric Differentiation, S. K. Radhamohan, Achyut V. Setlur and John E. Goldberg, ST6:June 71:1775:8216
Stability of Spaceframes, Mehdi S. Zarghamee and Jayant M. Shah, EM2:Apr 68:371:5878
Stability of Three Dimensional Building Frames, State-of-Art Report 4, Peter F. Adams, TB:73:II-16-483
Stability of Trusses Subjected to Ponding Loads, Ta Chao, TN: ST6:June 73:1327:9767
Stability of Unbraced Single-Bay Multistory Frames, Adel Helmy Salem, ST2:Feb 73:223:9552
Stability Problems of Wood Truss Bridge, Oscar M. Hahn, ST2:Feb 70:353:7095
Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242
Staggered Truss Building System, Harold P. Bakke, Lawrence A. Kloiber and Albert C. Nuhn, CE:Nov 69:56
Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321
Static and Dynamic Analysis of Pile Foundations, William E. Saul, ST5:May 68:1077:5936
Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817
Static Ending Strain in Stranded Conductor, James C. Poffenberger and Puran R. Mehta, ST11:Nov 70:2429:7687
Static Model Tests of Curved Girder Bridge, Charles G. Culver and Paul P. Christiano, ST8:Aug 69:1599:6712
Static Wind Loads on Circular Concave Cable Roofs, Gerald R. Seeley, Heinz Stefan and Paul P. Christiano, ST8:Aug 74:1593:10751
Statistical Analysis of Live Load in Column Design, Ross B. Corotis, ST8:Aug 72:1803:9123
Statistical Linearization for Nonlinear Structures, Wilfred D. Iwan and I-Min Yang, EM6:Dec 71:1609:8576
Statistical Methods in Structural Fatigue, Paul H. Wirsching and James T. P. Yao, ST6:June 70:1201:7377
Steel Box-Girder Bridges—Ultimate Strength Considerations, Charles G. Culver, Chmn., ST12:Dec 74:2433:11014
Steel Box Girders Highlight Design of I-480 in Omaha, G. C. Strobel, CE:Dec 69:66
Steel Column Buckling Under Thermal Gradients, Charles G. Culver, ST8:Aug 72:1853:9150
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
Steel Ductility Measurements, Asfandiar K. Dhalla and George Winter, ST2:Feb 74:427:10365
Steel-Encased Expansive Cement Concrete Column, Vitelmo V. Bertero and Saad E. Moustafa, ST11:Nov 70:2267:7660
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022
Stiffness Center Method, Hayrettin Kardestuncer, ST7:July 74:1421:10673
Stiffness Coefficients for Layered Media, Gordon R. Johnson, Howard I. Epstein and Paul P. Christiano, TN: ST7:July 74:1537:10647
Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295:9545
Stiffness Matrix for Sandwich Folded Plates, G. Michael Folie, ST2:Feb 71:603:7925
Stiffness Method for Curved Box Girders at Initial Stress, Zdenek P. Bazant and Mahjoub El Nimeiri, ST10:Oct 74:2071:10877
Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
Stiffness Requirements for Lateral Bracing, Bruce R. Mutton and Nicholas S. Trahair, ST10:Oct 73:2167:10086
Stirrup Effectiveness in RC Beams with Axial Force, Munther J. Haddadin and Alan H. Mattock, ST9:Sept 71:2277:8394
Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72:327:8675
Strain in Brick Wall of Five-Story Building, J. G. Stockbridge, ST12:Dec 69:2955:6979
Strength Analysis of Corner Column-Slab Connections, E. Ramzy F. Zaghlool, ST1:Jan 73:53:9471
Strength and Behavior of an Inelastic Hybrid Frame, Peter Arnold, Peter F. Adams and Le-Wu Lu, ST1:Jan 68:243:5759
Strength at Diagonal Cracking under Uniform Load, Madhujit Mukhopadhyay, TN: ST9:Sept 74:1989:10775
Strength of Beams or Columns with Buckled Elements, Maurice L. Sharp, TN: ST5:May 70:1011:7254
Strength of Concrete Filled Steel Tubular Columns, Robert B. Knowles and Robert Park, ST12:Dec 69:2565:6936
Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593:8143
Strength of Square-Tube Connections Under Combined Loads, Roger L. Brockenbrough, ST12:Dec 72:2753:9425
Strength of Steel Columns with Biaxially Eccentric Load, Satya S. Sharma and Edwin H. Gaylord, ST12:Dec 69:2797:6960
Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
Stress Analysis of Group of Interconnected Thin-Walled Cantilevers, Jacob Gluck and Mordechai Krauss, ST10:Oct 73:2143:10089
Stress Distribution Around Shallow Buried Rigid Pipes, Subhash C. Anand, ST1:Jan 74:161:10258
Stress Distribution Around Shell Openings, A. Ziya Aktas, ST11:Nov 70:2337:7693
Stress Distribution in Castellated Beams, James A. Mandel, Paul J. Brennan, Benjamin A. Wasil and Charles M. Antoni, ST7:July 71:1947:8260
Stresses and Strains in Reinforced Concrete, August J. Durelli, Vincent J. Parks and Fu-pen Chiang, ST5:May 69:871:6552

Stresses in a Pressurized Cylinder With a Hole, August J. Durelli, C. J. Del Rio, Vincent J. Parks and H. Feng, ST5:Oct 67:383:5524
Stress in Beams with Circular Eccentric Web Holes, Peter W. Chan and Richard G. Redwood, ST1:Jan 74:231:10291
Stress Strain Characteristics of Gypsum Concrete, Jehangir F. Mirza and E. G. Kandasamy, TN: ST12:Dec 72:2831:9400
Structural Analysis by Computer Graphics, William F. Bates, Jr., ST11:Nov 69:2433:6914
Structural Analysis of Circular Curved Beamn, Samuel Engel, ST1:Mar 67:221:5099
Structural and Foundation Computer-Based Design, Richard F. Harig and Daniel J. McDermott, ST1: Jan 71:315:7843
Structural Aspects of the Lindheimer Astronomical Observatory, S. Hal Iyengar, CE:Mar 69:71
Structural Behavior of Concrete Arch Culvert, Raymond Eugene Davis, ST12:Dec 69:2665:6942
Structural Behavior of Prestressed Concrete Reactor Vessels, Stanley L. Paul, ST7:July 71:1879:8249
Structural Behavior of Thick Cold-Formed Steel Members, Wei-Wen Yu, Victor A.S. Liu and William M. McKinney, ST11:Nov 74:2191:10907
Structural Concrete-Biaxial Bending and Compression, Cheng-Tzu Hsu and M. Saeed Mirza, TN: ST2:Feb 73:285:9545
Structural Dampers, P. Mahmoodi, ST8:Aug 69:1661: 6725
Structural Design Based on Weighted Fractiles, Eero Paloheimo and Matti Hannus, ST7:July 74:1367: 10663
Structural Design of Wells Hydrocombine, C. C. Wang, PO2:Mar 71:281:7980
Structural Engineering Research in Wood, Billy Bohannan, ST2:Feb 68:403:5784
Structural Metals-Aluminum, John W. Clark, CE:Aug 69:31
Structural Metals-Steel, Roger L. Brockenbrough, CE:Aug 69:35
Structural Optimization by Inscribed Hyperspheres, Roman Baldur, EM3:June 72:503:8934
Structural Reaction Dynamometers, M. Daniel Vanderbilt, ST6:June 71:1701:8188
Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069
Structural Response to Sonic Booms, Roland L. Sharpe and Garrison Kost, ST4:Apr 71:1157:8063
Structural Risk Analysis and Reliability-Based Design, Alfredo H-S. Ang, ST9:Sept 73:1891:10011
Structural Safety—A Literature Review, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642
Structural Timber Research at Forest Products Lab, Fred Werren, ST12:Dec 69:2891:6980
Structure And Foundation Interaction Theory, Ian K. Lee and Howard B. Harrison, ST2:Feb 70:177:7059
Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
Structure-ground Interaction in Earthquakes, Johann H. Rainer, EM5:Oct 71:1431:8422
Study of Suspended Roof Model, Prem Krishna and Tej P. Agarwal, ST6:June 71:1671:8168
Subassemblage Concept for Tall Frame Analysis, Graham H. Powell and M. Bassam El Hafez, ST8: Aug 74:1611:10739
Subassemblage Technique for Asymmetric Structures, William R. Hibbard and Peter F. Adams, ST11:Nov 73:2259:10132
Substructure Analysis by Matrix Decomposition, Richard Rosen and Moshe F. Rubinstein, ST3:Mar 70:663:7169
Suggested Design Guides for Beams with Web Holes, John E. Bower, Chmn., ST11:Nov 71:2707:8536
Suggested Steel Ductility Requirements, Asfandiar K. Dhalla and George Winter, ST2:Feb 74:445:10366
Surface Loading in Open-Top Tanks, James F. Marchman, III, TN: ST11:Nov 70:2551:7690
Surface Treatment of High-Strength Bolted Joints, George C. Brookhart, I. H. Siddiqi and Desi D. Vasarhelyi, ST3:Mar 68:671:5851
Survey of Curved Girder Bridges, Roger L. Brockenbrough, Chmn., CE:Feb 73:54
Survey of Research on Structural Connections, Geoffrey L. Kulak, TN: ST12:Dec 74:2537:10982
Sustained and Cyclic Loading of Concrete Columns, Jostein Hellesland and Roger Green, ST4:Apr 71: 1113:8033
Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564
Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73: 2123:10055
Sustained Biaxial Load on Slender Concrete Columns, Robert G. Drysdale and Mark W. Huggins, ST5:May 71:1423:8103
Symmetry in Structural Mechanics, Peter G. Glockner, ST1:Jan 73:71:9475
Systematic Design of Multistory Buildings, John F. Brotchie, ST7:July 74:1489:10678
Systems Analysis Method for Pavement Structures, William Ronald Hudson, B. Frank McCullough, Frank H. Scrivner and Gary Carey, ST1:Jan 71:81: 7852
Systems and Concepts, Preface, Fazlur R. Khan, TB: 73:Ia-1
Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55
Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
Tangent Stiffness in Plane Frames, Cenap Oran, ST6: June 73:973:9810
Tangent Stiffness in Space Frames, Cenap Oran, ST6: June 73:987:9813
Tangent Stiffness Matrix for Space Frame Members, Semih S. Tezcan and Bijay C. Mahapatra, ST6:June 69:1257:6627
Tangent Stiffness Method for Biaxial Bending, Sakda Santathadaporn and Wai F. Chen, ST1:Jan 72:153: 8637
Tapered Box Girders of Deformable Cross Section, Vladimir Kristek, ST8:Aug 70:1761:7489
Technique for Interactive Computer Graphics in Design, Richard T. Douty and Sidney Shore, ST1: Jan 71:273:7837
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72: 1087:9260
Test of a Reinforced Concrete Flat Slab, D. S. Hatcher, Mete A. Sozen and Chester P. Siess, ST6: June 69:1051:6585
Tests of a Modified Reinforced Concrete Two-Way Slab, M. Daniel Vanderbilt, Mete A. Sozen and Chester P. Siess, ST6:June 69:1097:6587
Tests of a Two-Way Reinforced Concrete Floor Slab, William L. Gamble, Mete A. Sozen and Chester P. Siess, ST6:June 69:1073:6586
Tests of Concrete Columns in Torsion, Ganpat S. Pandit and Manak B. Mawal, ST7:July 73:1409: 9850
Tests of Flat-Plate Corner Column-Slab Connections, E. Ramzy F. Zaghlool and H. A. Rawdon de Paiva, ST3:Mar 73:551:9616
Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73: 335:9627
Tests of Gusset Plate Models, Desi D . Vasarhelyi, ST2:Feb 71:665:7901
Tests of One and Two-Story Flat Plate Models, C. Trevor Harnden, ST3:Mar 74:513:10392
Tests of Reinforced Concrete Flat Plate Floors, E. Ramzy F. Zaghlool, H A. Rawdon de Paiva and Peter G Glockner, ST3:Mar 70:487:7147
Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72: 611:8791
Tests on Composite Beams with Cellular Deck, Hugh Robinson, ST4:Aug 67:139:5391

Tests on Steel-Frame, Shear-Wall Structures, Sauren N.G. Majumdar and Peter F. Adams, ST4:Apr 71: 1097:8031
Theoretical Analysis of Suspension Roofs, Saafan A. Saafan, ST2:Feb 70:393:7107
Theoretical Lateral Resistance of Nailed Joints, Thomas Lee Wilkinson, ST5:May 71:1381:8121
Theoretical Stresses and Strains from Heat Curving, Roger L Brockenbrough, ST7:July 70:1421:7410
Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687: 9428
Theory of Nonlinear Elastic Structures, Graham H. Powell, ST12:Dec 69:2687:6943
Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541: 9864
Thermal Loading of Thin-Shell Concrete Cooling Towers, Richard D Larrabee, David P. Billington and John F. Abel, ST12:Dec 74:2367:11002
Thermal Movement Of Bridge Decks, Ganpat S. Pandit, TN: ST8:Aug 72:1899:9086
Thermal Stresses and Movements in Bridges, Joseph C. Reynolds and Jack H. Emanuel, ST1:Jan 74:63: 10275
Thin Aluminum Shear Webs, Maurice L. Sharp and John W. Clark, ST4:Apr 71:1021:8048
Three-Dimensional Analysis of Shear Wall Buildings to Lateral Load, Jayanta K. Biswas and Wai K. Tso, ST5:May 74:1019:10537
Three-Dimensional Inelastic Subassemblage Design, John F. Lott, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1445:8108
Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193
Time Dependent Behavior of Concrete Beams, John D. Mozer, Kurt H. Gerstle and Leonard G. Tulin, ST3:Mar 70:597:7157
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249
Torsional Analysis of Box-Girder Suspension Bridges, H. Max Irvine, ST4:Apr 74:789:10464
Torsional-Flexural Buckling Effects in Portal Frames, David A. Nethercot, TN: ST9:Sept 74:1985:10775
Torsional-Flexural Buckling of Thin-Walled Sections Under Eccentric Load, Teoman B. Pekoz and George Winter, ST5:May 69:941:6571
Torsional Strength of Prestressed Concrete Beams, H. Roger Woodhead and Arthur E. McMullen, ST5: May 74:881:10545
Torsion Analysis of Heavy Box Beams in Structures, Frederick A. Smith, Jr., Francis M. Thomas and James O. Smith, ST3:Mar 70:613:7165
Torsion Analysis of Symmetric Building Structures, Alexander Coull and Bryan Stafford Smith, TN: ST1:Jan 73:229:9464
Torsion and Bending of Prestressed Concrete Beams, Lawrence H. Martin and Peter J. Wainwright, ST11:Nov 73:2229:10129
Torsion, Bending and Shear in Prestressed Concrete, Priya R. Mukherjee and Joseph Warwaruk, ST4: Apr 71:1063:8041
Torsion in Beams with Open Sections, Kuang-Han Chu and Robert B. Johnson, ST7:July 74:1397: 10666
Torsion of Nonhomogeneous Anistropic Bars, Somasundaram Valliappan and V. Pulmano, TN: ST1:Jan 74:286:10264
Torsion of Nonprismatic Beams of Open Section, Donald R. Evick and Conrad P. Heins, Jr., ST12: Dec 72:2769:9453
Torsion of Perforated Concrete Shafts, Riko Rosman, ST5:May 69:991:6578
Torsion, Shear, and Bending on Stirruped L-Beams, Umakanta Behera and Phil M Ferguson, ST7:July 70:1271:7419
Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
Tower: Design System for Guyed Towers, Karl L. Reichelt, Daniel M. Brown and John W. Melin, ST1:Jan 71:237:7836
Tower Response to Actual and Simulated Wind Forces, Arthur N.L. Chiu and George T. Taoka, ST9:Sept 73:1911:10012
Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73: 715:9918
Transient Wind Loads on Circular Concave Cable Roofs, Paul P. Christiano, Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966
Transverse Elastic Buckling of Plane Pipe Gridworks, Alan I. Soler and Hooshang Afshari, TN: ST4:Apr 74:837:10456
Tranverse Stiffener Requirements for Curved Webs, Nicholas Mariani, John D. Mozer, Clive L. Dym and Charles G. Culver, ST4:Apr 73:757:9684
Treatment of Peak Gusts on Cladding, W. Alan Dalgliesh, ST9:Sept 71:2173:8356
Trial Load Analyses Confirm Arch Dam Model Tests, Archie A. Stone and Gurmukh S. Sarkaria, PO2:Oct 67:37:5503
Tubular Sections in Highway Structures, Richard N. White, HW2:Nov 68:161:6227
Two-Dimensional Cable Analysis, George R. Buchanan, ST7:July 70:1581:7436
Two Nonlinear Beams with Definitions of Ductility, Melbourne F. Giberson, ST2:Feb 69:137:6377
Ultimate Biaxial Capacity of Boxed Steel Columns, Peter J. Marshall and John S. Ellis, ST9:Sept 70: 1873:7515
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
Ultimate Static Strength of Plate Girders from Tests, Max A.M. Herzog, ST5:May 74:849:10530
Ultimate Strength Design of Composite Columns, Horace J. Brettle, ST9:Sept 73:1931:9975
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793
Ultimate Strength of Biaxially Loaded Steel H-Columns, Wai F. Chen and Toshio Atsuta, ST3: Mar 73:469:9613
Ultimate Strength of Cellular Flat Plate, Unnikrishna S. Pillai and K. Sapru, TN: ST5:May 74:1162:10536
Ultimate Strength of Concrete Box Girder Bridge, Jack G. Bouwkamp, Alexander C. Scordelis and S. Tanvir Wasti, ST1:Jan 74:31:10293
Ultimate Strength of Laterally Loaded Columns, Le-Wu Lu and Hassan Kamalvand, ST6:June 68:1505: 6009
Ultimate Torque of Rectangular Reinforced Concrete Beams, Ganpat S. Pandit, TN: ST9:Sept 70:1987: 7503
Unbalanced Tensions in Transmission Lines, David B. Campbell, ST10:Oct 70:2189:7622
Unbraced Multistory Steel Frames with Wind Load, E. Whitman Wright, ST1:Jan 72:185:8633
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66
Uniqueness Theorem for Nonlinear Plane Frames, Om Dutt and Niels C. Lind, ST6:June 70:1061: 7330
Unreinforced Masonry Load-Bearing Walls, Kenneth P. Buchert, CE:Dec 73:64
US Pavilion at EXPO 70 Features Air-Supported Cable Roof, David H. Geiger, CE:Mar 70:48
Vibrational Characteristics of Linear Space Frames, William D. Whetstone and Charles E. Jones, ST10: Oct 69:2077:6821
Vibration Analysis of Pump Discharge Lines, Jesse M. Diaz and Ravinder K. Jain, HY11:Nov 70:2279: 7678
Vibration of Chimney Supported on Elevated Concrete Slab, Elias G. Abu-Saba, ST2:Feb 71:619: 7936
Vibration of Flanged Beams and Panels, Satya P. Keshava, TN: ST7:July 73:1681:9828
Vibration of Heavy Industrial Slabs, James H. Woodward and Claudie K. McDonald, TN: ST8: Aug 73:1797:9911
Vibrations of Stacks Supported on Steel Structures, Anthony Morrone, ST12:Dec 69:2831:6965
Vibrations of Timoshenko Beams and Frameworks, Franklin Y. Cheng, ST3:Mar 70:551:7155

Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923
Vogt Boundary for Finite Element Arch Dam Analysis, Gilbert A. Hartley, Gregory M. McNeice and Walter Stensch, ST1:Jan 74:51:10269
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Warping and Distortion at I-Section Joints, Porpan Vacharajittiphan and Nicholas S. Trahair, ST3:Mar 74:547:10390
Web Buckling Strength of Beam-to-Column Connections, Wai F. Chen and Irving J. Oppenheim, TN: ST1:Jan 74:279:10264
Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620
Weight Optimization of Plane Trusses, Samuel L. Lipson and Krishna M. Agrawal, ST5:May 74:865:10521
Welded Connections under Combined Shear and Moment, John L. Dawe and Geoffrey L. Kulak, ST4:Apr 74:727:10457
What Do We Know About Torsion in Concrete Members, Paul Zia, ST6:June 70:1185:7372
Why Not Plastics Bridges?, Fred C. McCormick, ST8:Aug 72:1757:9143
Wind Deflection of Tall Concrete Frame Buildings, John F. Wiss and Otto E. Curth, ST7:July 70:1461:7413
Wind Induced Vibration in Light Poles, Hayes E. Ross, Jr. and Thomas Charles Edwards, ST6:June 70:1221:7383
Wind Loads For National Airlines Hangar In Miami, Frederick M. Law, TN: ST1:Jan 72:421:8619
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723
Wind Spectra and Dynamic Alongwind Response, Emil Simiu, ST9:Sept 74:1897:10815
World's Largest Log-Periodic Antenna, Yen H. Dong, ST9:Sept 71:2371:8400
Yield Criterion for Reinforced Concrete Slabs, Satish Jain and John B. Kennedy, ST3:Mar 74:631:10409
Yield Line Analysis of Folded Plate Structures, Morris N. Fialkow, ST12:Dec 68:2935:6306
The 1970's: Civil Engineering Forecast-Part II, Kneeland A. Godfrey, Jr., CE:May 70:41
81-ft Model of Prestressed Bridge, CE:Oct 72:83

Structural Forms

Cellular Steel Floors Mature, Eugene E. Dallaire, CE:July 71:70
Concrete Deep Submergence Hollow Shell Structures, Jerry D. Stachiw, ST12:Dec 69:2931:6982
Precast Concrete Panels Cut Cost of Apartment Complex, Zivan Cohen, CE:May 71:48
Sydney Opera House, O. N. Arup and Gerd J. Zunz, CE:Dec 71:50
Tall Buildings: Major Characteristics, State-of-Art Report 1, E. Ozer, N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93

Structural Members

Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057
Behavior of Laced and Battened Structural Members, Fung J. Lin, Ernst C. Glauser and Bruce G. Johnston, ST7:July 70:1377:7404
Cumulative Damage Theories and Application, J. E. Stallmeyer and William Hamilton Walker, ST12:Dec 68:2739:6290
Influence of Details on Fatigue Behavior of Structures, Harold Mindlin, ST12:Dec 68:2679:6286
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
Stress Waves at Rigid Right Angle Joint, James A. Mandel, Rajendra K. Mathor and Yuan C. Chang, EM4:Aug 71:1173:8316
Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577
Thin Laminates with Homogeneous Elastic Properties, Joel I. Abrams and Ernest R. Scheyhing, EM6:Dec 70:847:7758
Vibrations of Triangular Viscoelastic Plates, John S. Hewitt and Jagannath Mazumdar, EM6:Dec 74:1143:11004

Structural Models

Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998
Stress Studies of Three Old Arch Dams, Gurmukh S. Sarkaria, IMROD:Sept 73:418
Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069

Structural Plastics

Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
Plastics in Construction, H. C. Browne, CE:Aug 69:39

Structural Stability

Boundary Effects on Stability of Structures, Amrik S. Chawla, HY9:Sept 72:1557:9199
Commentary on Structural Standards, Theme Report, P. A. Lorin, TB:73:II-13-7
Deficiencies Noted in Open Literature — Structural, George H. Workman, PITO:74:61
The Equivalent-Beam Approach in Tall Buildings Stability Analysis, Erol Yarimci, TB:73:II-16-553
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
Reliability Bases of Structural Safety and Design, Alfredo H.-S. Ang and C. Allin Cornell, ST9:Sept 74:1755:10777
Safety Against Dynamic Forces, Masanobu Shinozuka, ST9:Sept 74:1821:10781
Structural Safety and Probabilistic Methods, Theme Report, C. Allin Cornell, TB:73:Ib-10-911

Structural Steel

Big Steel-Truss Roof Welded on Ground, Lifted into Position, Gene W. Jones, CE:Oct 69:42
The Chicago Civic Center, Skidmore, Owings & Merrill, TB:73:C-P-492
Commentary on Structural Standards, Summary Report, Ira Hooper, TB:73:II-13-147
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Engineering Education Needs for the Structural Steel Industry, Robert O. Disque, CEE:Feb 74:1-380
Fatigue Damage in Seismic Steel Members, Ramachandran Srinivasan and William H. Munse, TB:73:II-18-814
Glossary of Terms Pertaining to Structural Steel Engineering and Design, Roland R. Graham, Jr., Chmn., ST8:Aug 71:2137:8322
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Keynote Address at Tall Buildings Conference, Stewart S. Cort, Chairman, Bethlehem Steel Corp., TB:73:C-33
Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, N. P. Melnikov, TB:73:II-13-121
Structural Steel Designers' Handbook, edited by Frederic S. Merritt (Book Review), Roman Wolchuk, CE:Nov 72:14
Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647
United States Steel Corporation Building, Harrison & Abramovitz, TB:73:C-P-432

Structural Steels
Behavior of Laced and Battened Structural Members, Fung J. Lin, Ernst C. Glauser and Bruce G. Johnston, ST7:July 70:1377:7404
Fatigue of Bolted High Strength Structural Steel, Peter C. Birkemoe and Ramachandran Srinivasan, ST3:Mar 71:935:7997
Influence of Details on Fatigue Behavior of Structures, Harold Mindlin, ST12:Dec 68:2679:6286
New Microwave Tower Design Reduces Drag, Demetri Zavitzianos, CE:Mar 71:46
Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, S. Hal Iyengar, TB:73:II-14-185
Structural Metals-Steel, Roger L. Brockenbrough, CE:Aug 69:35

Structural Timber
Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623

Structure
Model Test and Analysis of Oblique Folded Plate Structure, James N. Siddall, Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043:9772

Structures
The Allowable Settlement of Structures, Hugh Q. Golder, 4PCSM:71:1171
Analysis of Inelastic Suspension Structures, Thomas M. Murray and Nicholas Willems, ST12:Dec 71:2791:8574
Automatic Design of Shell Structures, Peter G. Smith and Edward L. Wilson, ST1:Jan 71:191:7825
Bigger Bridge Loads Coming-Will We Be Ready, Arthur L. Elliott, CE:Feb 69:52
Bridge Engineer Looks at Esthetics of Structures, Reece H. Wengenroth, ST4:Apr 71:1227:8074
Cantilever Cylindrical Shells Under Assumed Wind Pressures, S. Gopalacharyulu and D. J. Johns, EM5:Oct 73:943:10085
Close-Range Photogrammetric Data Reduction Scheme, Dennis E. Moellman and Houssam M. Karara, SU2:Sept 68:211:6106
Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127
Construction and Operation of Wells Dam, Joseph Anderson and Lee A. Wyngaard, PO2:Feb 71:335:7975
Maintenance and Repairs of Ancillary Equipment, Dale H. Doble, IMROD:Sept 73:451
Modal Damping for Soil-Structure Interaction, Nien-Chien Tsai, EM2:Apr 74:323:10490
Nondeterministic Analysis of Offshore Structures, Anil K. Malhotra and Joseph Penzien, EM6:Dec 70:985:7777
Reliability of Structural Systems, Fred Moses, ST9:Sept 74:1813:10780
Replacement-Lock and Dam No. 26: Condition of Existing Structure, Daniel P. Marshall, Jr., WW1:Feb 70:27:7097
Replacement-Lock and Dam No. 26: Plans Considered, Richard C. Armstrong, WW1:Feb 70:49:7071
Safety Factors and Probability in Structural Design, Alfredo H.-S. Ang and Mohammad Amin, ST7:July 69:1389:6667
Structural Masonry, by Sven Sahlin (Book Review), James E. Amrhein, CE:Oct 71:12
Sway in Structures, Maxwell G. Lay, TB:73:II-16-590
Torsion Analysis of Symmetric Building Structures, Alexander Coull and Bryan Stafford Smith, TN:ST1:Jan 73:229:9464
Torsion of Cylinders with Multiple Reinforcement, You-Ming Kuo and Harry D. Conway, EM2:Apr 74:221:10460

Struts
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348
General Analysis of Laterally Loaded Beam-Columns, Francois Cheong Siat Moy, ST6:June 74:1263:10625
Method of Analysis of Laterally Loaded Columns, Francois Cheong Siat Moy, ST5:May 74:953:10548
A Numerical Technique for Elastica Problems, John V. Huddleston, EM5:Oct 68:1159:6182
Performance of Bracing for Deep Chicago Excavation, Edwin Paul Swatek, Jr., Sherwin P. Asrow and Arthur M. Seitz, PES:72:I-1303
Predicted Performance of a Braced Excavation, Hugh Q. Golder, James P. Gould, T. William Lambe, Gregory P. Tschebotarioff and Stanley D. Wilson, SM3:May 70:801:7292

Students
ASCE and Graduate Students: Faculty Advisor's Opinion, Keith Charles Crandall, PP3:July 73:307:9882
ASCE -- Its Role, Function and Activities on the Urban Campus, Joseph Di Sorbo, CEWAU:74:270
CE Students Learn Through Socially Useful Projects, Fred Lamar, CE:Jan 71:60
C.E. Technology Minority Student Considerations, Philip L. Brach, CEE:Feb 74:1-296
Commentary, Clifford R. Scudder, Jr., CEWAU:74:263
Committee Rap Sessions (Panel Discussions), CEE:Feb 74:2-254
Construction Education in Civil Engineering, Herbert W. Busching and J. Pat Cecil, CEE:Feb 74:1-607
Education of Engineering Students to become Engineers, George F. Sowers, CEE:Feb 74:1-320
Engineering Students Learn Social Awareness at UMR, Fred Lamar, CE:May 74:54
Introducing Undergraduates to Environmental Quality, Alonzo W. Lawrence, CEE:Feb 74:1-83
Involvement of Practitioners, Broadening the Program, Technology Graduates, Students and Guidance (Panel Discussions), CEE:Feb 74:2-234
Neglected Responsibilities of Undergraduate Education, John P. Klus, CEE:Feb 74:1-566
Role of a Small College in Education of Engineers, Jon A. Cole and Edward F. Cross, CEE:Feb 74:1-55
School Trip Safety and Urban Play Areas - A Study of the Young Pedestrian, Martin L. Reiss, BP73:Dec 73:96
Student Development, Guidance and Minorities in Civil Engineering, Alvin Newman, CEE:Feb 74:2-191
Students Tackle Pollution Problems, Darrell J. Turner, CE:Sept 70:51
Trends in Faculty Qualifications and Objectives, Dan H. Pletta, CEE:Feb 74:2-168
What Graduate Students Want From ASCE, Harold J. Singer, PP3:July 73:313:9881

Studs
Behavior of Composite-Beam to Column Joints, J. Hartley Daniels, Geoffrey D. Kroll and John W. Fisher, ST3:Mar 70:671:7173

Subarctic
Basic Construction Principles in Higher Latitudes, Shu-T'ien Li, CO1:Mar 74:33:10399

Subassemblies
Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72:1769:9148

Subcritical Flow
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603

Subdivisions
Comprehensive Unified Land Data System, Robert N. Cook, SU1:Oct 69:103:6851
Coordinates Versus Confusion, Robert T. Howe, SU2:Sept 70:191:7528

An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
Hydrologic Concepts in Suburban Planning, Ed L. Reed, IRS:Sept 72:185
Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132
Residential-Recreation Development, Alan T. Hill, CE:Dec 71:60

Subgrade
Finite Element Analysis of Pile-Supported Pavement Structures, Raman Pichumani, John E. Crawford and George E. Triandafilidis, TE2:May 74:293:10516
Model Study of Laterally Loaded Piles, Melvin T. Davisson and James R. Salley, SM5:Sept 70:1605:7511
Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870

Subgrades
Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72:311:8858
Design of Compensated Foundations, State-of-Art Report 1, Leonardo Zeevaert, TB:73:Ia-11-853
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72:1005:9363
Lime Reclaims Unstable Interior Subgrade During Construction, James M. Sheahan, CE:June 72:74
Lime-Treated Soils for Pavement Construction, Marshall R. Thompson, HW2:Nov 68:191:6249
Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511
Subgrade Strengthening of Existing Airfield Runways, Quentin L. Robnett, TE2:May 73:267:9724
Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Submarines
Underwater Inspection by Submarine, Edward J. Drobnack, IMROD:Sept 73:459

Submarine Topography
Mass Transport by Waves and Offshore Sand Bedforms, Trevor G. Carter, Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699

Submerged Flow
Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675
Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841
Energy Loss Analysis for Open Channel Expansions, Gaylord V. Skogerboe, HY10:Oct 71:1719:8464
Importance of Flow Measurement in Water Control, W. Roger Walker, IRS:Sept 72:131
P-Function Approximations For Jet Momentum Flux, W. Hall C. Maxwell and Kuo- Cheng Chang, TN: EM4:Aug 72:1011:9082
Plane Jet on Sloping Floors Under Finite Submergence, Valupadas Mura Hari, HY9:Sept 73:1449:10027
Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999

Submergence
Vortex Suppression in Stilling Pond Overflow, Y. R. Reddy and John Pickford, HY11:Nov 74:1685:10969

Submerging
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516

Subsidence
California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263
Horizontal Movements Related to Subsidence, Kenneth L. Lee and Chih-Kang P. Shen, SM1:Jan 69:139:6336
Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
Mine Grouting to Control Building Settlement, Charles I. Mansur and Marion C. Skouby, SM2:Mar 70:511:7166
Mine Subsidence and Support Methods in Pittsburgh Area, Richard E. Gray and James F. Meyers, SM4:July 70:1267:7407
Peat and Muck Drainage Problems, John C. Stephens, IR2:June 69:285:6603
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48
Pressure-Meter Field Testing of Soils, Max L. Calhoon, CE:July 69:71
Settlement Histories of Four Large Tanks on Sand, Melvin T. Davisson and James R. Salley, PES:72:I-981
State of Predictive Art in Subsidence Engineering, Barry Voight and William G. Pariseau, SM2:Mar 70:721:7187
Subsidence in United States Due to Ground-Water Overdraft—A Review, J. F. Poland, IR73:Aug 73:11

Subsoil
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald L. York, CE:Aug 73:56

Substations
Evolution of Location and Design of TVA Power Substations, Robert C. St. Clair and John W. Sanders, EPCE:Aug 74:525
Improved Appearance of Switchyards and Substations, Edwin Rose and Dwight A. Covington, PO1:Mar 69:17:6455

Substitutes
Consideration of Alternatives in Decision Making, Ellis L. Armstrong, EI2:Apr 74:119:10498

Subsurface Drainage
Disposal Well Problems in Chicago and Bakersfield Areas, Ralph G. Berk, SA5:Oct 71:675:8405
Drainage System Design and Analysis by Computer, Dean M. Renner and Charles C. Mueller, IR3:Sept 74:255:10801
'Filter-Fin' Multiplies Drain Effectiveness, Kent A. Healy and Richard P. Long, CE:Apr 74:50
Interceptor Drains in Heavy Clay Soils, Malcolm L. Steinberg, TE1:Feb 70:1:7066
Management of Waste Fluids in Salaquifers, Raphael G. Kazmann, Oscar K. Kimbler and Walter R. Whitehead, IR4:Dec 74:413:10991
Model Study of Boundary Effects on Ditch Drainage Division, Eugene W. Rochester, Jr., IR4:Dec 68:493:6313
Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543:9422
Subsurfqce Drainage Solutions by Galerkin's Method, Purushottam Dass and Hubert J. Morel-Seytoux, IR1:Mar 74:1:10397

Subsurface Drains
Ghanats of Iran: Drainage of Sloping Aquifer, Mohammed Bybordi, IR3:Sept 74:245:10785
Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3:Sept 72:363:9183
Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543:9422

Subsurface Flow
Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375:10013

Subsurface Investigations
Acoustical Holography as a Tool for Geologic Prediction, Ted O. Price, EFSE:Aug 74:172
Acoustic Techniques Suitable for Use in Soil, D. L. Hipkins and L. A. Whitney, EFSE:Aug 74:159
Continuous Subsurface Profiling by Impulse Radar, Rexford M. Morey, EFSE:Aug 74:213
Engineering Applications of Electrical Geophysical Methods, George V. Keller, EFSE:Aug 74:128
Engineering Measurements, Eugene L. Foster, EFSE:Aug 74:23
Exploration and Geologic Prediction for Underground Works, Lloyd B. Underwood, EFSE:Aug 74:65
Exploration for Soft Ground Tunnels — A New Approaach, Birger Schmidt, EFSE:Aug 74:84
Identification of R&D Needs for Subsurface Site Investigations, George Brown Wallace, EFSE:Aug 74:372
Important Ground Parameters in Soft Ground Tunneling, Donald E. Heuer, EFSE:Aug 74:41
Investigation of Earth Dam Foundations, John P. Bara, EFSE:Aug 74:381
Keynote Address — Our Last Unexplored Frontier — The Space Beneath Our Feet, Lloyd J. Money, EFSE:Aug 74:10
An Overview of Horizontal-Borehole Geophysical Techniques, Llewellyn A. Rubin, EFSE:Aug 74:233
A Recommended Borehole Investigation System for Soft Ground, Stephen Alsup, EFSE:Aug 74:117
Sea State Measurements from Pressure Records, Y. Y. Kim and L. H. Simon, WAVES:Sept 74:40
State of Practice — Subsurface Investigation for Highway Tunnels, David S. Gedney, EFSE:Aug 74:36
Subsurface Explorations in the Coal Mining Industry, Alphonse C. Van Besien, EFSE:Aug 74:383
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37
Subsurface Investigation System Planning for Highway Tunnels, James L. Ash, Bruce E. Russell and Robert R. Rommel, EFSE:Aug 74:97
Subsurface Video Pulse Radars, David L. Moffatt, EFSE:Aug 74:195
Underground Excavation: Geologic Problems and Exploration Methods, Andrew H. Merritt, EFSE:Aug 74:56
What's Ahead in Subsurface Exploration (Closing Remarks), Madan M. Singh, EFSE:Aug 74:387

Subsurface Irrigation
Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3:Sept 72:363:9183
Subsurface Hydrograph Analysis by Convolution, Willard M. Snyder and Loris E. Asmussen, IR3:Sept 72:405:9213
Subsurface Irrigation Easily Automated, Sterling Davis and Sheldon D. Nelson, IR1:Mar 70:47:7135

Subsurface Structures
BART in Operation—Innovations in Rapid Transit, William A. Bugge, TE2:May 74:335:10522
Blast Loaded Buried Arches, Jimmy P. Balsara, EM1:Feb 70:1:7058
Challenge Of Underground Transmission and Distribution, David W. Gilman and Edward J. Steeve, PO1:Jan 71:151:7827
Chemical Grouting for Paris Rapid Transit Tunnels, Jean J. Janin and Guy F. Le Sciellour, CO1:June 70:61:7382
Difficult Excavation at Carley Porter Tunnel, Paul J. Varello, CE:June 70:66
Earthquake Design Criteria for Subways, Thomas R. Kuesel, ST6:June 69:1213:6616
Edward Hyatt (Orville) Underground Power Plant, Alfred R. Golze, PO2:Mar 71:419:7950
Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149
In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72:899:9202
Minimum Cover for Buried Flexible Conduits, Reynold K. Watkins, Massood Ghavami and G. Reed Longhurst, PL1:Oct 68:155:6195
Repair of Earthquake Damaged Underground Reservoir, Daniel J. Smith, Jr., CO3:Sept 74:449:10825
Research Programs on Pipeline Crossings, William F. Quinn, TE3:Aug 70:283:7457
Rock Stabilization at Morrow Point Power Plant, Gilbert L. Brown, Ernest D. Morgan and Jerry S. Dodd, SM1:Jan 71:119:7820
Seismic Motion of Buildings with Buried Foundations, Stephen A. Thau, Andrej Umek and Rouben Rostamian, EM5:Oct 74:919:10870
Stresses Against Underground Structural Cylinders, Kaare Hoeg, SM4:July 68:833:6022
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858
Structures In Soil Under High Loads, Jay R. Allgood, SM3:Mar 71:565:8006
Subsurface Environment—Private Property or Public Domain?, William R. Walker and William E. Cox, HY11:Nov 74:1699:10958
Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098

Subsurface Waters
Interceptor Drains in Heavy Clay Soils, Malcolm L. Steinberg, TE1:Feb 70:1:7066

Subways
BART in Operation—Innovations in Rapid Transit, William A. Bugge, TE2:May 74:335:10522
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075
Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1:Feb 73:53:9518
Concrete Formwork for Washington, D.C. Metro, John J. Bodziuch, CE:July 74:76
Constructing Washington D.C.'s Metro, Ellis E. Wilhoyt, Jr., CE:Nov 74:74
Criteria for Lateral Pressures for Braced Cuts, William J. Armento, PES:72:I-1283
Current Mass-Transit Proposals: Answer to Our Commuter Problem?, Martin Wohl, CE:Dec 71:68
Design of Pedestrian Facilities for the Washington Metro, Albert J. Roohr, MTI:May 72:159
Design of Pedestrian Facilities for the Washington Metro, Melvin Siegel, BP73:Dec 73:420
Design of Temporary Retaining Structures for the Washington Subway System, James P. Gould, PES:73:III-251
Development of Shotcrete for Metro Construction in Washington, Kanwal S. Bawa, SUSS:July 73:33
Earthquake Design Criteria for Subways, Thomas R. Kuesel, ST6:June 69:1213:6616
Expressway Rapid Transit, George Krambles, TE4:Nov 72:1023:9388
Geomechanical Instrumentation in Mexico Tunnels, Derek F. Berry, URC:72:51
The Performance of a Subway Excavation, T. William Lambe, L. Anthony Wolfskill and Walter E. Jaworski, PES:72:I-1403
Planning for the Metro, Thomas B. Deen, TE3:Aug 70:349:7476
Planning the Pedestrian Environment, Herbert S. Levinson, BP73:Dec 73:37
Precast Concrete Tunnel Linings for Toronto Subway, John V. Bartlett, Ted M. Noskiewicz and James A. Ramsay, CO2:Nov 71:241:8498
Soft-Ground Tunneling Technology on the BART Project, Edward W. Peterson and Peter Frobenius, CE:Oct 71:72
The Urban Transportation / Innovation Problem: Can New Concepts Help? - The Institutional Response, Michael Cafferty, UTI:71:19

Use of Shotcrete for Tunnelling in Difficult Grounds, Pericle Quadrio Curzio, Glauco Barazzoni, Fiorenzo Nobili and Alessio Anselmi, SUSS:July 73:79

The Viennese Subway System, Max Ellinger, TB:73: C-P-269

Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56

Suction

Flow Field Surrounding a Suction Pipe Inlet, David R. Basco and William J. Apgar, HYB:Aug 73:121

Sugarcane

Economics of a Water-Yield Function for Sugar Cane, Howard C. Hogg, Jack R. Davidson and Jen-hu Chang, IR1:Mar 69:127:6448

Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622

Sulfate Reducing Bacteria

Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, NSCD:71:61

Sulfides

Oxidation of Sulfide by O_2: Catalysis and Inhibition, Kenneth Y. Chen and J. Carrell Morris, SA1:Feb 72:215:8710

Sewerage and Sewage Treatment: State-of-the-Art Abstracts, Ralph Stone, Chmn, SA1:Feb 70:35:7074

Sulfonates

Lignosulphonates in Lake Paijanne Water, Seppo Priha, SA2:Apr 71:191:8021

Sulfur Dioxide

Sulfur Dioxide Dilemma: Is the Scrubber the Answer?, Virginia Fairweather, CE:June 74:64

Sulfur Oxides

Indirect Method of SO_2 Determination from Combustion, Thomas T. Shen, TN: EE3:June 74: 795:10571

Sulfur Dioxide Dilemma: Is the Scrubber the Answer?, Virginia Fairweather, CE:June 74:64

Summarizing

Summary of Session I - Opening, Charles F. Corns, SUSS:July 73:29

Sump Pumps

Wet-Wells Volumes for Multipump Systems, Gunther Goldschmidt, IR3:Sept 74:371:10830

Superconducting Magnets

Superconducting Levitation of High Speed Vehicles, Vincent D. Arp, Alan F. Clark and Thomas M. Glynn, TE4:Nov 73:873:10163

Supercritical Flow

On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603

Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691: 9216

Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846

Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235

Supersaturation

Gas Supersaturation Problem in the Columbia River, Peter B. Boyer, IRS:Sept 72:205

Supersonic Flow

Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691: 9216

Superstructures

Brooklyn Bridge Superstructure -- 1876-1973 and Beyond, Carl H. Gronquist and Blair Birdsall, CEWAU:74:52

Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998

Newport Bridge Superstructure, Alfred Hedefine and Louis G. Silano, ST11:Nov 71:2653:8533

Supply

Engineering Manpower: Supply and Demand Relationships, Robert D. Kersten and John Paul Hartman, CEE:Feb 74:1-479

Supply (Economics)

Northeast Corridor Transportation Project: Structure and Operations of Model System, Paul W. Shuldiner, TE4:Nov 70:445:7651

Supports

Beams on Discrete, Nonlinear Elastic Supports, Aylmer P. Cheng and Howard L. Furr, ST11:Nov 69:2335:6873

Buckling of Continuous Circular Plates, A. S. J. Swamidas and Vincent X. Kunukkasseril, EM4:Aug 73:835:9900

Cement Stabilized Fill for Conduit Support, Richard B. Catanach and Thomas N. McDaniel, TN: SM6: June 71:959:8162

Contact Between Plates and Sagged Supports, John Dundurs, Kraiwood Kiattikomol and Leon M. Keer, EM2:Apr 74:445:10485

Deep Beam on Statically Indeterminate Supports, Prabhakara Bhatt, EM4:Aug 73:793:9902

Hyberboloidal Shells on Discrete Supports, Subir K. Sen and Phillip L. Gould, TN: ST3:Mar 73:595: 9629

Influence Lines for Beams on Elastic Supports, Edward N. Wilson, TN: ST6:June 74:1325:10596

Instrumentation to Monitor Behavior of Shotcrete Support Systems, Ronald A. Jones and J. W. Mahar, SUSS:July 73:297

School Buildings Feature Polygon Shape, German R. Gurfinkel, CE:Dec 70:31

Selection/Design of Shotcrete for Temporary Support, Ronald E. Heuer, SUSS:July 73:160

Structural Failures, Jack R. Janney, STF:73:11

Subsurface Construction Contracts—A Contractor's View, George A. Fox, CO2:June 74:153:10608

Summary of the Conference, Pierrepont E. Sperry, Jr., SUSS:July 73:441

Tranverse Stiffener Requirements for Curved Webs, Nicholas Mariani, John D. Mozer, Clive L. Dym and Charles G. Culver, ST4:Apr 73:757:9684

Surcharge

Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72: 333:9126

Foundation Precompression With Vertical Sand Drains, Stanley J. Johnson, SM1:Jan 70:145:7019

Foundation Precompression with Vertical Sand Drains, Stanley J. Johnson, PISST:71:9

Performance of Embankments Constructed Over Peat, William G. Weber, Jr., SM1:Jan 69:53:6333

Precompression for Improving Foundation Soils, Stanley J. Johnson, SM1:Jan 70:111:7020

Precompression for Improving Foundation Soils, Stanley J. Johnson, PISST:71:53

A Preload of Silty Fine Sand, Warren L. Schroeder and Edward G. Worth, PES:72:I-379

Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald L. York, CE:Aug 73:56

Surf

Coastal Engineering Measurements, Johan A. Zwamborn, K. S. Russell and J. Nicholson, CE13: 72:I-75

Distribution of Sediment Transport Across the Surf Zone, Edward B. Thornton, CE13:72:II-1049

Field Observations of Nearshore Current System, Kiyoshi Horikawa and Tamio Sasaki, CE13:72:I-635

Longshore Transport of Suspended Sediment, John C. Fairchild, CE13:72:II-1069
Period by the Wave Group Method, Warren C. Thompson, CE13:72:I-197
Probabilities of Breaking Wave Characteristics, J. Ian Collins, 12CEC:71:399
Recreational Surfing on Hawaiian Reefs, James R. Walker, Robert Q. Palmer and Joseph K. Kukea, CE13:72:III-2597
Set-Up due to Irregular Waves, Jurjen A. Battjes, CE13:72:III-1992
Simultaneous Data System for Instrumenting the Shelf, Robert L. Lowe, Douglas L. Inman and Birchard M. Brush, CE13:72:I-95
Variation of Longshore Current Across the Surf Zone, Edward B. Thornton, 12CEC:71:291
Wave Analysis System for the Breaker Zone, William L. Wood, WAVES:Sept 74:774
Wave Measuring Instrumentation for Field Investigations on Breakers, Alfred Fuhrboter and Fritz Busching, WAVES:Sept 74:649
Wave Observations with Capacitance-Type Wave Gauge Array Installed on a Long Pier, Yoshito Tsuchiya and Masataka Yamaguchi, WAVES:Sept 74:689
Wave Statistics for Surfzone Structures, John Simpson Hale, WAVES:Sept 74:453

Surface Drainage
Drainage Analysis of a Confining Formation, Leo C. Benz and Eugene J. Doering, IR73:Aug 73:225
Effects of Surface Drainage on Stream Flow, H. N. McGill, Allyn C. Bennett, Wendell B. Moody and Gene C. Vittetoe, IR73:Aug 73:501
Evaluation of Agricultural Drainage in Water Quality Management, T. Clark Lyons, Dwight P. Russell and Roger G. Fry, IR73:Aug 73:529

Surface Finishing
Wear Resistant Industrial Floors of Portland-Cement Concrete, R. F. Ytterberg, CE:Jan 71:68

Surface Irrigation
Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957
Automatic Cutback Furrow Irrigation System Design, Ion Nicolaescu and E. Gordon Kruse, IR3:Sept 71:343:8358
Automation of Surface Irrigation Systems, Howard R. Haise and E. Gordon Kruse, IR4:Dec 69:503:6969
Change in Quality of Pumped Drainage Effluent, Enos J. Carlson, IR73:Aug 73:195
Distribution Channels with Multiple Outlets, William E. Hart and John Borrelli, IR2:June 72:267:8976
Effectiveness of Precipitation in a Mountain Meadow, E. Gordon Kruse and Howard R. Haise, IR73:Aug 73:627
Groundwater Control by Pumping, James A. Robertson, Jr., Frank J. Dragoun and Dale W. Sall, IR73:Aug 73:179
Hydrodynamics of Surface Irrigation - Advance Phase, John G. Sakkas and Theodor S. Strelkoff, IR1:Mar 74:31:10422
Irrigation Scheduling from Evaporation Reports, Mel A. Hagood, OIDS:72:533
Muskegon Sprays Sewage Effluents on Land, Eugene I. Chaiken, Stephen Polincsik and Carl D. Wilson, CE:May 73:49
Optimal Design of Furrow Length of Surface Irrigation, I-pai Wu and Tung Liang, IR3:Sept 70:319:7543
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195
Self-Closing Irrigation Pipe Valve, Howard R. Haise and Meredith L. Payne, TN: IR3:Aug 72:517:9160
Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443:9212
Surface Irrigation Hydraulics and Kinematics, William E. Hart, Day L. Bassett and Theodor S. Strelkoff, IR4:Dec 68:419:6284
Surface Irrigation Using the Kinematic-Wave MethoS, Cheng-lung Chen, IR1:Mar 70:39:7134

Surface Preparation
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180

Surface Properties
Surface Oscillations in a Water Tank Caused by a Submerged Jet, Juan B. Font, Omar Azpurua and Flora Aranguren, 12CEC:71:2243

Surface Roughness
Manning n for Cast-in-Place Concrete Pipe, Thomas T. Wilson, Jr. and Edib Kirdar, HY3:May 69:995:6575

Surface Runoff
Formulation of Mathematical Watershed-Flow Model, Cheng-lung Chen and Ven Te Chow, EM3:June 71:809:8199
Laboratory Experiments with Surface Runoff, Ivan Muzik, HY4:Apr 74:501:10463

Surfaces
Artificial Playing Surface, Jim Clifton, CEWAU:74:90

Surface Tension
The Role of Surface Tension in Breaking Waves, Robert L. Miller, CE13:72:I-433

Surface Water Runoff
Effect of Urban Development on Flood Discharges, Harman F. Smith, HY1:Jan 69:287:6355
Surface Runoff Hydrograph Equation, Vulli L. Gupta and Syed A. Moin, HY10:Oct 74:1353:10880

Surface Waters
Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
Total Dollar Benefit of Water Pollution Control, Nelson L. Nemerow and Robert C. Faro, SA3:June 70:665:7323
A Water Spreading and Well Field Water Supply System, Burt A. Babcock, IRS:Sept 72:225

Surface Waves
An Analysis of Wave Forces on a Pile, Farouk M. Abdel-Aal, WAVES:Sept 74:867
Estimation of Wave Statistics from Spectral Information, Yoshimi Goda, WAVES:Sept 74:320
Flow-Field Relationships in Directional Waves, R. R. Putz, WAVES:Sept 74:721
New Equipment for Field Measurement of Water Surface Waves, Ake Sandstrom, WAVES:Sept 74:272
Prediction of Near-Surface Drift Currents from Wind Velocity, Jin Wu, HY9:Sept 73:1291:9995
Wave Heights Expressed in Engineering Terminology, Homer I. Sargeant and Richard C. Timme, WAVES:Sept 74:433

Surges
Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261
Pressure Surge Attenuation Utilizing an Air Chamber, Don J. Wood, HY5:May 70:1143:7267
Surge in the Southeast Basin, Long Beach Harbor, Calif., Basil W. Wilson, James A. Hendrickson and Yuan Jen, CE13:72:III-2617
Surge Problems in Canals with High-Lift Locks, Donald M. Liddell, WW2:Nov 69:467:6898

Surge Tanks
Oscillations in Surge Tanks, Mohammad Akram Gill, HY10:Oct 74:1369:10891
Reinforcing Steel for Penstock Wye Branch, Kenneth E. Sorensen, PO2:Oct 69:217:6830
Stability of Oscillations in Simple Surge Tank, Eugen Ruus, HY5:Sept 69:1577:6773

Structural Design of Angeles Tunnel Surge Chamber, Rossiter L. White, PO1:July 74:71:10644
Surging in Laboratory Pipeline with Steady Inflow, Edward R. Holley, HY3:May 69:961:6573

Surge Waves

Pressure Upon Vertical Wall from Standing Waves, V. K. Shtencel, CE13:72:III-1649

Surveillance

Helping Man To Use The Seas, Robert M. White, CEO-II:70:11
Precise Dam Surveys—Los Angeles County Flood Control District, Don F. Keene, SU2:Nov 74:99:10925

Surveying

Adjusting Radial Surveys, James R. Baker, SU2:Nov 72:157:9335
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71:321:8545
Aerotriangulation Precision Attainable for Highway Photogrammetry, Michael C.Y. Hou, SU1:May 74:7:10527
Airphoto Interpretation of Flood Plain Soils, Ralph W. Kiefer, SU1:Oct 69:49:6819
Analysis and Prediction of Photogrammetric Residual Errors, Kunwar K. Rampal, SU1:May 74:33:10515
Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
Automated Formulation of Condition Equations, Frank J. Hatfield, TN: SU1:Sept 73:151:10017
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
Bridge Construction Surveying, Ray W. Burgan, Jr., CO2:June 74:105:10602
Channel Rectification Engineering Survey Program, John M. Shields, SU1:May 71:61:8119
Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
Comparison of Analytical Relative-Orientation Methods, Santosh K. Mahajan and Singh Vijay, SU1:July 72:73:9056
Comprehensive Unified Land Data System, Robert N. Cook, SU1:Oct 69:103:6851
Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39:10015
Computer Program System for Aerotriangulation, Kam W. Wong and G. Elphingstone, SU2:Nov 72:219:9322
Constructional Deformations in Rockfill Dam, Arthur D. Penman and Andrew Charles, SM2:Feb 73:139:9560
Control Surveys for Major Bridges, Normand L. Moore and Richard G. Begell, SU1:May 71:83:8098
Coordinated Mapping Program Saves Money for County, Ivan F. Gennis and Joseph P. Allesandri, CE:Dec 73:45
Definitions of Surveying and Associated Terms -- Manual and Report on Engineering Practice No. 34, 1972, 205 pp.
Electronic Distance Measurement Revolution Well Underway, Eugene E. Dallaire, CE:Oct 74:66
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
Gravity and Gradients of Long Tunnels, H. S. Williams, SU1:Oct 69:11:6815
High Precision Levels with Automatic Instruments, Elmer F. Kulp, SU2:Sept 70:121:7514
Hydrographic Surveys Offshore—Error Sources, Ralph H. Cross, III, SU2:Nov 74:83:10908
Hydrographic Survey Techniques on Mississippi, Otis T. Welch, SU1:May 71:109:8123
Hydrography and the Engineer, Colin G. McQ. Weeks, SU1:Sept 73:1:9981
Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132
Interpretation of Multispectral Remote Sensor Data, Albert N. Williamson, SU2:Nov 74:143:10948
Inversion of Mercator Coordinates, Erwin Schmid, TN: SU2:Nov 72:243:9385
Investigation of Dynamic Taping, Bruce W. Golley and John Sneddon, SU2:Nov 74:115:10938
Land Surveying and Civil Engineering -- Professionally Related, But Different, Kenneth S. Curtis and John G. McEntyre, CEE:Feb 74:1-134
Laser Multilateration, Theodore H. Wirtanen, SU1:Oct 69:81:6843
Lateral Refraction in Proximity of Structures, Ron K.H. Adler and Haim B. Papo, SU1:Oct 69:93:6846
Measured Deformation Behavior of Glen Canyon Dam, Joe T. Richardson, SU2:Sept 68:149:6097
Mississippi Valley Mapping, Leslie B. Robison, SU1:May 71:103:8102
New Procedure for Numerical Relative Orientation, Santosh K. Mahajan, SU2:Nov 74:155:10962
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
Photogrammetry and Hydraulic Surfaces, Wolfgang Faig, SU2:Nov 72:145:9337
Pipeline Location: Bibliography Supplement, Edward T. Marsh, Chmn., TE2:May 73:363:9739
Planning Economical Tunnel Surveys, Bruce J. Thompson, SU2:Nov 74:95:10906
Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79:9976
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034
Project Planning, John M. Shields, SU1:July 72:61:9041
Recommended Right-of-Way Practices, Harmer A. Weeden, CE:Apr 72:74
Reliability of Refraction in Polar Astronavigation, Gerald W. Johnson and James L. Clapp, SU2:Nov 71:165:8502
Rounds Versus Positions, Mohamed F. Madkour, SU1:Oct 69:151:6862
Selection of Maps for Engineering and Planning, Antonio M. Aguilar, Chmn., SU1:July 72:107:9073
Some Methods of Monitoring Open Pit Sludge, Bruce A. Kennedy, RM13:72:537
Structural and Terrain Movements, John A. Dearinger, SU2:Nov 74:123:10896
Surveying Responsibility of the Engineer-Manager, Daniel J. Watkins, SU1:May 71:1:8101
Surveyor 1984, B. Austin Barry, EI3:July 74:235:10658
Surveys and Mapping in Water Resource Development, Kerry F. Pitts, SU1:May 71:69:8088
Systematic Errors in High Latitude Astronavigation, Gerald W. Johnson, TN: SU2:Nov 74:183:10905
Ten Years After: Confessions of an Overeducated Engineer, Richard M. Males, CEE:Feb 74:1-417
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
Three-Dimensional Forward and Inverse Computations, William E. Ball, Jr., SU2:Nov 72:167:9361
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63:10030
Three-Dimensional Positioning—by Multilateration, William E. Ball, Jr., SU1:May 74:63:10524
Three-Dimensional Resection--A Vector Approach, William E. Ball, Jr., SU1:Sept 73:87:10007
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008
Use of Trees as Bench Marks in Expansive Clays, Robert Davis and Richard Tucker, TN: SU1:Sept 73:149:10017
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52

Surveying Instruments

Advancing Technology in Electronic Surveying, Charles G. Romaniello, SU2:Sept 70:287:7566

Aerial Color Analyses of Water Quality, Kenneth R. Piech and J. E. Walker, SU2:Nov 71:185:8507

Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1: July 72:93:9053

Control Surveys for Major Bridges, Normand L. Moore and Richard G. Begell, SU1:May 71:83:8098

DI-10 Distomat System, E. Kenneth Reynolds, SU2: Sept 70:137:7518

Electronic Distance Measurement Revolution Well Underway, Eugene E. Dallaire, CE:Oct 74:66

Equipment for Field Deformation Measurements, C. John Dunnicliff, 4PCSM:71:II319

Monitoring Water Pollution by Remote Sensing, James P. Scherz, SU2:Nov 71:307:8550

New Distance Measuring Instruments, Raymond W. Tomlinson, SU2:Sept 70:149:7521

New Zeiss Electro-Optical Instrumentation, Dieter F. Schellens, SU2:Sept 70:173:7526

Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045

Short-range EDM: Big Boost for Surveyors, Eugene E. Dallaire, CE:Feb 71:69

Surveys for South Shore Rapid Transit Construction, Alfred J. Pacelli, SU1:May 71:133:8148

Tellurometer Ground Swing Over Ice Surface, Thomas A. Asbeck and James L. Clapp, SU1:May 71:53:8149

Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008

Surveys

Absolute Orientation of Photogrammetric Model, Santosh K. Mahajan and Vijay Singh, SU2:Nov 71: 237:8519

Adjustment of Traverses, Robert P Vreeland, SU1: Oct 69:25:6816

Advancing Technology in Electronic Surveying, Charles G. Romaniello, SU2:Sept 70:287:7566

Aerial Color Analyses of Water Quality, Kenneth R. Piech and J. E. Walker, SU2:Nov 71:185:8507

Analytical Plotter System, James R. Skidmore, SU2: Sept 70:253:7559

Applications of Airborne Remote Sensing Technology, Ralph W. Kiefer and James P. Scherz, SU1:Apr 70:57:7225

Area and Volume Errors in Reservoir Projects, Antonio M. Aguilar, SU2:Nov 71:287:8538

Causes of Delay in the Construction Industry, John R. Baldwin, James M. Manthei, Harold Rothbart and Robert B. Harris, CO2:Nov 71:177:8501

Channel Rectification Engineering Survey Program, John M. Shields, SU1:May 71:61:8119

Chart Compilation-Field and Office, William J. Monteith, SU2:Sept 70:157:7522

Charting New Transportation Environment, John A. Osborn, SU2:Sept 70:265:7565

Comparison of Analytical Relative-Orientation Methods, Santosh K. Mahajan and Singh Vijay, SU1:July 72:73:9056

Computer Programs for Strip Aerotriangulation, Kam W. Wong, SU1:Oct 69:71:6822

Construction Control by Programmetric Methods, George P. Katibah, SU1:Oct 69:1:6809

Construction Surveys for Merced River Project, Arthur R. Reitter and Robert N. Janopaul, SU2: Sept 68:203:6104

Control for Antarctic Ice Cap Reconnaissance, James L. Clapp, SU1:Jan 68:1:5716

Control of Tunneling Machines by "TunneLaser" System, George P. Colson, CE:Feb 70:55

Control Surveys for Major Bridges, Normand L. Moore and Richard G. Begell, SU1:May 71:83:8098

Control Surveys: Historical Summary, Preface, and Chapter 1, Ira H. Alexander, Chmn., SU2:Sept 70: 245:7556

Development of Tunneling Methods and Controls, Ellis L. Armstrong, CO2:Oct 70:99:7577

Electronic Traverse Versus Triangulation, John O. Phillips, SU2:Oct 67:29:5491

Estimating Costs of Aerial Surveys, Antonio M. Aguilar, CE:Oct 69:70

Evaluation of Accuracy of Precise Leveling, M. Geisler and Haim B. Papo, SU2:Oct 67:103:5531

Evaluation of Barometric Leveling, James D. Gruendler, James L. Clapp and Paul R. Wolf, SU1: Apr 70:1:7195

Explicit Approach to Exterior Orientation, Santosh K. Mahajan, SU2:Nov 71:251:8518

Fifty Years in Surveying-Mapping-and the Future, George D. Whitmore, SU1:Oct 69:143:6860

Geodetic Computations by Electronic Computer, Gerald F. Clohecy, SU1:May 71:97:8105

High Precision Levels with Automatic Instruments, Elmer F. Kulp, SU2:Sept 70:121:7514

Instant Relief With New Stereo Image Alternator, John E. Leonarz, SU2:Sept 70:257:7564

Land Acquistion Surveys and Maps for Reservoirs, Russell S. Dittmer, SU2:Nov 71:215:8500

Laser Alignment Techniques Utilized in Tunneling, Austin Cooney, SU2:Sept 70:229:7545

Map Control by Electronic Surveys, William A. McLaughlin, SU1:Apr 70:81:7226

Mapping for Changing Environment, Morris M. Thompson, SU1:Oct 69:35:6818

Mapping for the Pennsylvania Highways, Victor W. Anckaitis, SU2:Oct 67:103:5530

Mapping from Space, Alden P. Colvocoresses, SU1: May 71:125:8137

Measuring Building Movement by Precise Survey, J. David Reynolds and John A. Dearinger, SU1:Apr 70:87:7228

Modern Day Surveys for Highway Location and Design, Jon S. Beazley, SU1:Apr 70:11:7196

Monitoring Water Pollution by Remote Sensing, James P. Scherz, SU2:Nov 71:307:8550

National Mapping for Urban Areas, Robert H. Lyddan, SU2:Sept 70:143:7520

New Distance Measuring Instruments, Raymond W. Tomlinson, SU2:Sept 70:149:7521

A New Philosophy on Preservation of Survey Evidence, R. B. Buckner, SU2:Sept 70:213:7540

Offsets to Sight Obstructions Near the Ends of Horizontal Curves, William L. Raymond, Jr., CE: Jan 72:71

On Writing Descriptions, Richard R. Mayer, SU2: Sept 68:101:6094

Orthophotomapping for Prudhoe Bay Development, Thomas J. O'Brien, SU2:Nov 71:199:8499

Philadelphia-Lindenwold High-Speed Line Surveys, Carl E. Hultin, SU1:May 71:7:8096

Photogrammetric Mapping of Craters from Small Explosions, George C. Love and Luke J. Vortman, SU1:Oct 69:125:6857

Photogrammetric Surveying in Highway Programs, James E. Newman, SU2:Nov 71:297:8539

Photogrammetry for Right-of-Way Acquisitions, Edward H. Sokolowski, SU1:Jan 68:49:5735

Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045

Precise Dam Surveys—Los Angeles County Flood Control District, Don F. Keene, SU2:Nov 74:99: 10925

Precision of Adjusted Variables by Least Squares, Mohamed F. Madkour, SU2:Sept 68:119:6096

Project Planning, John M. Shields, SU1:July 72:61: 9041

Reconnaissance for Dam Sites in Remote Areas, Vernon E. Swanson, SU1:Apr 70:97:7244

Regional Control Supplied by Photogrammetry, G. Carper Tewinkel, SU1:May 71:13:8136

Registration of Engineers, Arthur R. Watson, Chmn., PP1:June 68:1:5983

Reliability of Refraction in Polar Astronavigation, Gerald W. Johnson and James L. Clapp, SU2:Nov 71:165:8502

Right-of-Way Surveys, Joe A. Hicks, Jr., SU2:Sept 68:227:6121

Rigorous Formulas for Effects of Weight Changes, Mohamed F. Madkour, SU2:Nov 71:173:8514

Seafloor Surveying by Divers, John B. Ciani, E. Kent Hunter, George B. Dowling and David M. Bunk, SU2:Nov 71:149:8496

Slope Taping, Joe E. Colcord and Frank H. Chick, SU2:Sept 68:137:6098

Solar Astronavigation in High Latitudes, Gerald W. Johnson and James L. Clapp, SU1:May 71:27:8139
Space Resection from Collinearity Conditions, Kunwar K. Rampal, SU2:Nov 71:205:8520
Status of Use and Research in Surveying and Mapping, William T. Pryor, Chmn., SU2:Sept 68:243:6122
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
Survey and Property Corner Monumentation, Louis A. Woodward, SU2:Oct 67:75:5513
Survey Control for Concrete Dam Construction, Maynard J. Willis, SU2:Sept 68:169:6099
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
The Survey Engineer - A Rare Species, Arthur J. McNair, SU1:Apr 70:37:7197
Surveying Responsibility of the Engineer-Manager, Daniel J. Watkins, SU1:May 71:1:8101
Surveys for South Shore Rapid Transit Construction, Alfred J. Pacelli, SU1:May 71:133:8148
Tacheometry in Survey Engineering, Joe E. Colcord, SU1:May 71:39:8141
Television Display of Topographic Maps, Kam W. Wong and Nick G. Yacoumelos, SU2:Nov 71:273:8531
Ten-Year Research Program in Surveying and Mapping, Morris M. Thompson, SU2:Oct 67:9:5486
Topographic Maps for Construction Planning, Robert H. Lyddan, SU1:Apr 70:51:7221
The Unsymmetrical Vertical Parabola, Robert P. Vreeland, SU1:Jan 68:61:5739
Using Aerial Photos to Locate Granular Fill Material, Doss Neely and Abdel-Hady Mohamed, CO2:Oct 68:181:6166

Surveys (Data Collection)

Tall Buildings: Major Characteristics, State-of-Art Report 1, E. Ozer, N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93
Theme Report, Committee on the Survey of Tall Buildings, Neal FitzSimons, TB:73:C-AC14-87
Transit Industry Educational Interests, Frederick J. Wegmann and Edward A. Beimborn, EI4:Oct 74:313:10863

Suspended Load

Mixed Liquor Solids Separation by Flotation, Michael C. Mulbarger and Donald D. Huffman, SA4:Aug 70:861:7447
A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130
Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11:Nov 73:2041:10167
Suspended Load Calculations in a Tidal Estuary, Brian A. O'Connor, 12CEC:71:1931
Suspended Load In Bhagirathi River System, Amarendra N. Biswas, TN: HY1:Jan 72:315:8617
Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12:Dec 72:2191:9456

Suspended Sediments

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
Engineering Properties of Sea Floor Sediments from La Jolla Canyon, Iraj Noorany and Robert A. Zinser, CE13:72:II-1559
Instrument for Long-Term Measurement of Suspended Matter (Silt Gauge), Harald Gohren and Hans Laucht, CE13:72:II-1089
Longshore Transport of Suspended Sediment, John C. Fairchild, CE13:72:II-1069
Measurement of Sediment Suspension in Combinations of Waves and Currents, J. Kirkegaard Jensen and Torben Sorensen, CE13:72:II-1097
Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73:257:9753
Phase Dependent Roughness Control of Sand Movement, Douglas L. Inman and Edward B. Tunstall, CE13:72:II-1155
Physical Behavior of Flocculent Suspensions in Upflow, James C. Brown and Enrique LaMotta, SA2:Apr 71:209:8054
Sand Transport During Closure of Tidal Channels, J. N. Svasek, J. H.J. Terwindt and A. W. Walther, CE13:72:II-865
Similarity of Equilibrium Beach Profiles, M. J. Paul, J. William Kamphuis and A. Brebner, CE13:72:II-1217
Suspended Sediment and Longshore Sediment Transport Data Review, Madan M. Das, CE13:72:II-1027

Suspended Solids

Consumers Water Quality Index, Thomas M. Walski and Frank L. Parker, EE3:June 74:593:10601
Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72:937:9401
Effect of Suspended Wastes on System Design, Liang-tseng Fan, Ming-ching T. Ku and L. E. Erickson, EE6:Dec 74:1231:11018
Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965

Suspended Structures

Behavior of Prestressed Cable Truss Structures, Dwight E. Urelius and David W. Fowler, ST8:Aug 74:1627:10747
Bonded Continuous Turnout, Gregory E. Mester and Robert H. Robey, TN: ST8:Aug 74:1748:10723
Cable-Suspended Roof Construction State-of-the-Art, Subcommittee on Cable-Suspended Roof Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, John B. Scalzi, Chmn., ST6:June 71:1715:8190
Cable Suspended Roof for Munich Olympics, Fritz Leonhardt and Jorg Schlaich, CE:July 72:41
Influence of Edge Cables on Cable Network Behavior, Nejat Tugcu, TN: ST9:Sept 73:1970:9968
Response of Suspended Boilers to Earthquake Motions, James C. Anderson, Ramachandran Srinivasan and Robert J. Small, EPCE:Aug 74:363
Sanitary Sewer Extension Built Above Ground, R. Andrew Easley, Jr., CE:Apr 71:66
Study of Suspended Roof Model, Prem Krishna and Tej P. Agarwal, ST6:June 71:1671:8168
Theoretical Analysis of Suspension Roofs, Saafan A. Saafan, ST2:Feb 70:393:7107
Top-Supported Chimney Liners, Daryoush Motarjemi, EPCE:Aug 74:177

Suspension

Nonequilibrium Transport of Suspended Sediment, Allen T. Hjelmfelt and Charles W. Lenau, HY7:July 70:1567:7430
Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900
Turbulent Flow of Non-Newtonian Suspensions in Pipes, V. R. Krishna Murthy and Iraj Zandi, EM1:Feb 69:271:6427

Suspension Bridges

Aerodynamic Instability of Suspension Bridges, Ali Sabzevari and Robert H. Scanlan, EM2:Apr 68:489:5889
Continuous Method of Suspension Bridge Analysis, Harry H. West and Arthur R. Robinson, ST12:Dec 68:2861:6280

Swamps

Effect Of Cultural Practices On Water Resources, Cortland E. Young, SEA:70:77
Sand Fill Pumped 15 Miles for Interstate Construction, John W. Sill, CE:Feb 71:44

Sweden

Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, Mogens Lorentsen, TB:73:III-23-585
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435

Stockholm Puts Sewage Plant Underground, Gosta E. Sandstrom and Edlund Strom, CE:Sept 73:78
Supervision of Dams at the Swedish State Power Board, Karl Arthur Scherman and S. Nylander, IMROD:Sept 73:157
Use of Remote Controlled Spraying Nozzle, Claes Alberts, SUSS:July 73:65

Swelling
Analysis of Longitudinal Behavior of Buried Pipes, Harry G. Poulos, GT74:June 74:199
Building Damage From Expansive Steel Slag Backfill, Carl B. Crawford and Kenneth N. Burn, SM6:Nov 69:1325:6879
Building Damage from Expansive Steel Slag Backfill, Carl B. Crawford and Kenneth N. Burn, PISST:71:235

Swelling Pressure
Aging Effects on Swell Potential of Compacted Clays, Gabriel Kassiff and Raphael Baker, SM3:Mar 71:529:7951
Prediction of Swelling Pressure of Clays, Amos Komornik and D. David, SM1:Jan 69:209:6358

Swimming Pools
Competition for Recreation Water in California, Amalio Gomez and Dale A. Crane, IR3:Sept 68:295:6109

Swirling
Swirling Shallow Submerged Turbulent Plumes, Jai P. Narain, HY9:Sept 74:1229:10820

Switches
Bonded Continuous Turnout, Gregory E. Mester and Robert H. Robey, TN: ST8:Aug 74:1748:10723

Switchyards (Electrical)
Improved Appearance of Switchyards and Substations, Edwin Rose and Dwight A. Covington, PO1:Mar 69:17:6455

Switzerland
Mattmark — A Dam Founded on Alluvial and Morainic Deposits, Bernhard E. Gilg, EFFD:Mar 74:215

Symmetry
Symmetry in Structural Mechanics, Peter G. Glockner, ST1:Jan 73:71:9475

Synthesis
Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72:1935:9353

Synthetic Rubber
Pavement Joint Seals, Kneeland A. Godfrey, Jr., CE:Mar 72:42

Systems
Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662
Systems Approach to Building, James R. Cagley, CE:Apr 73:59
Television Display of Topographic Maps, Kam W. Wong and Nick G. Yacoumelos, SU2:Nov 71:273:8531
Transportation Research Needs in Civil Engineering, Robert F. Baker, TE3:Aug 71:541:8343

Systems Analysis
Analyzing Urban Transporatation Innovations, Joseph L. Schofer, UTI:71:187
Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB:Aug 73:141
The Civil Engineer in the Multidisciplinary Design Team, David A. Novick, PP2:Apr 72:221:8826
A Crtical Review of ASCE's Planning and Policy Process, Thomas C. Kavanagh, EI4:Oct 74:343:10890
Delaware River Basin Modeling, Lewis G. Hulman and David K. Ericson, HY1:Jan 72:105:8668
Demand Responsive Transportation Systems, Daniel Brand, UTI:71:327
Econometric Model to Aid in Urban Planning Decisions, A. F. Brotchie, Ron Sharpe and A. Raymond Toakley, UP1:Mar 73:25:9587
Effect of Suspended Wastes on System Design, Liang-tseng Fan, Ming-ching T. Ku and L. E. Erickson, EE6:Dec 74:1231:11018
Evaluation of New Systems For Urban Transportation, Reed H. Winslow and Jerry L. Pfeffer, TE4:Nov 72:757:9354
Exploration for Soft Ground Tunnels — A New Approaach, Birger Schmidt, EFSE:Aug 74:84
Forecasts with Varying Reliability, Myron B. Fiering, SA3:May 69:629:6638
Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2:Dec 71:149:8568
Goal Oriented Systems Approach to Building Fire Safety, Harold E. Nelson, TB:73:Ib-8-692
The Identification of Transportation Demand, Richard de Neufville and Joseph H. Stafford, UTI:71:281
Implication of Systems Analysis to Inland Navigation, DuWayne A. Koch, WW3:Aug 71:559:8302
Integration of Mechanical, Electrical, Structural and Architectural Systems in VA Hospital Facilities (Book Review), Carleton Coulter, III, CE:Nov 71:8
Introduction to Section III: Analyzing Innovative Transportation Alternatives, Daniel Brand, UTI:71:185
Irrigation Engineering and National Goals, William S. Butcher, OIDS:72:13
Keynote Address — Our Last Unexplored Frontier — The Space Beneath Our Feet, Lloyd J. Money, EFSE:Aug 74:10
Man-Oriented Program System For Engineering Design, George Rabe and Vincent A. Trossello, EC5:70:353
Measuring and Interpreting Consumer Preferences, Siegfried M. Breuning, UTI:71:307
Model for Flow Augmentation Analysis-An Overview, George R. Grantham, Edwin E. Pyatt, James P. Heaney and Buford J. Carter, Jr., SA5:Oct 70:1045:7578
A Modern Metropolis Looks Ahead, William D. Hudson, TE4:Nov 74:801:10918
Northeast Corridor Transportation Project: Structure and Operations of Model System, Paul W. Shuldiner, TE4:Nov 70:445:7651
Optimal Design of Furrow Length of Surface Irrigation, I-pai Wu and Tung Liang, IR3:Sept 70:319:7543
Optimal Water Quality Management for Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, SA1:Feb 72:195:8715
Optimizing Bus Use of Urban Highways, Herbert S. Levinson and William F. Hoey, TE2:May 74:443:10558
Pallet System for Integrating and Automating Urban Transportation, David Gordon Wilson, UTI:71:81
Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722
Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, S. Hal Iyengar, TB:73:II-I4-185
Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73:Ib-9-889
River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Role and Function of Systems Analysis, John C. Schaake, Jr., UWRM:71:72

Routing for Public Service Vehicles, David H. Marks and Robert Stricker, UP2:Dec 71:165:8573

Specialization of Urban Transportation Systems, Clark Henderson, UTI:71:405

Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, J. C. Orman, Chmn., ASC73: Mar 73:107

Subsurface Investigation System Planning for Highway Tunnels, James L. Ash, Bruce E. Russell and Robert R. Rommel, EFSE:Aug 74:97

Systematic Design of Multistory Buildings, John F. Brotchie, ST7:July 74:1489:10678

Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625

Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659

Systems Analysis Method for Pavement Structures, William Ronald Hudson, B. Frank McCullough, Frank H. Scrivner and Gary Carey, ST1:Jan 71:81: 7852

Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575

Systems Analyst's View of Noise and Urban Planning, Martin Wachs and Joseph L. Schofer, UP2:Oct 70:147:7639

Systems Approach and the Civil Engineer, Kenneth W. Heathington and R. Brian Bonton, PP1:Oct 71: 65:8457

A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286

Systems Approach to Power Planning, J. George Thon, HY4:Apr 73:589:9661

Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73: 573:9660

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Trends in Airport Planning, Reginald J. Sutherland, ASC73:Mar 73:193

The Urban Transportation / Innovation Problem: Can New Concepts Help? - The Institutional Response, Michael Cafferty, UTI:71:19

Water Reuse Systems Analysis, A. Bruce Bishop and David W. Hendricks, SA1:Feb 71:41:7898

Systems Engineering

Airfield Pavement Systems, Edward L. Murphree, Ronald W. Woodhead and Robert H. Wortman, TE3:Aug 71:389:8283

Airport Access Cost-Effectiveness Analysis, Richard de Neufville and Edward Mierzejewski, TE3:Aug 72:663:9141

Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152

Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174

Capital Cost Minimization of Drainage Networks, Jarir S. Dajani and Yakir Hasit, EE2:Apr 74:325: 10448

Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72: 645:9282

Combined Sewer Overflows, Richard Field, CE:Feb 73:57

The Comprehensive Plan in Transportation Planning, Kurt W. Bauer, TE3:July 70:421:7493

Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578

Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, Kenneth F. Reinschmidt, TB:73:C-AC31-159

Construction Systems for Concrete Dams, Albert D. Parker, ECCD:72:219

Cost-Effective Matching of Task and Computing Device, Ralph E. Miller, Jr. and John McCaslin, EC5:70:543

Design Capacities to Accommodate Forecast Uncertainties, Paul M. Berthouex and Lawrence B. Polkowski, SA5:Oct 70:1183:7633

Design Conduit System By Dynamic Programming, Rex K. Liang, CO1:Mar 71:383:7998

Design Conduit System by Dynamic Programming, Tung Liang, HY3:Mar 71:7988

Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824

Dynamic Programming for Conjunction Water Use, Gert Aron and Verne H. Scott, HY5:May 71:705: 8145

Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977

Electronic Data Processes in Highway Operations, Ernest E. Horinek, CE:Feb 69:46

Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202

Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7

Environment by Design, William L. Slayton, CE:Oct 71:85

Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669

Factors Affecting Performance of Pavement Systems, William Ronald Hudson, B. Frank McCullough and Fred N. Finn, TE3:Aug 69:505:6740

Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, Ove Pettersson, TB:73:Ib-8-585

Fleet Selection for Solid Waste Collection Systems, Robert M. Clark and Billy P. Helms, SA1:Feb 72: 71:8720

GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shemsul A. Akhand, TE3:Aug 74:593:10717

General Hydrologic System Model, Ven Te Chow and V. C. Kulandaiswamy, HY6:June 71:791:8176

Goal Formulation for Socio-technical Systems, G. Scott Rutherford, Joseph L. Schofer and Martin Wachs, UP2:Sept 73:157:9985

Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, J. F. Camellerie, TB:73:Ia-4-781

Inclusion of Social Values in Facility Location Planning, David Morris, UP1:July 72:17:9023

Introductory Remarks, Merlin D. Copen, ECCD:72: 169

Legal Constraints on Urban Water Systems, Neil S. Grigg, UP2:Sept 73:137:9986

Location Models: Solid Waste Collection Example, David H. Marks and Jon C. Liebman, UP1:Apr 71: 15:8027

Master Planning Methodology for Urban Drainage, Harold F. Bishop, HY1:Jan 74:189:10290

Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB: 73:Ib-8-523

Model For Farm Irrigation in Humid Areas, James S. Windsor, IR3:Sept 71:369:8355

Monte Carlo Simulation of Industrial Waste Discharges, Paul M. Berthouex and Linfield C. Brown, SA5:Oct 69:887:6836

Multi-Discipline Case Study Approach to Education in Project Planning, William S. Gaither and Dennis R. Neuzil, CE:Dec 70:35

Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253: 9795

Multiservice Transport Systems for Urban Mobility, Leon Monroe Cole, UP1:Apr 71:31:8025

Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131

Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078

On the Applications of ICES and Universal Program Software Systems, Louis H. Klotz, CE:Feb 69:72

Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414

Optimal Multifunctional Material Systems, Edward M. Krokosky, EM2:Apr 71:559:8077

Optimal Selection of Flexible Pavement Components, Salim S. Hejal, Thomas R. Buick and Joseph C. Oppenlander, TE2:Feb 71:1:7877

Optimum Housing Allocation Model for Urban Areas, R. S. Atkins and Edward M. Krokosky, UP1:Apr 71:41:8022

Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176

Origin, Purpose, and Status of Project, Robert A. Nelson, TE4:Nov 70:439:7655

Planning for Memphis Medical Center Traffic and Parking, Wm. H. Claire and Randall A.P. Johnson, TE1:Feb 71:51:7882

Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173

Plastic Liners for CANDU Containment Structures, E. C. Smith, ST10:Oct 71:2583:8435

Professional Papers in Sanitary Engineering, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237

Report of Workshop B's Second Meeting -- Construction Specifications, Equipment, and Systems for Concrete Dams, Jack W. Ward, ECCD:72:337

Reservoir System Design Optimization, Richard J. Butsch, HY1:Jan 70:125:7023

The San Francisco Bay-Delta Water Quality Control Program, J. E. Stann and J. R. Ringwood, CE:June 69:74

Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379

Scientific Method-a Triad, Murray I. Mantell, PP1: July 69:47:6676

SCSD:Pioneer Effort in Systems Approach to Building Construction, Christopher Arnold, CE:Apr 69:41

Sediment Routing in Irrigation Canal Systems, Khalid Mahmood, IR1:Mar 74:49:10401

Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280

Solid Waste Management: Equity Trade-Off Models, Louis A. Fuertes, James F. Hudson and David H. Marks, UP2:Nov 74:155:10913

State of the Art-Urban Transportation Systems, Donald O. Eisele, TE3:Aug 69:439:6729

Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658

Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140

Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969

Structural Systems, Summary Report -- Part II, Friedrich K. Reinitzhuber, TB:73:Ia-3-651

A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, John P. Eberhard, TB:73:Ia-1-133

System Dynamics Approach to Urban Planning, K. Preston White, Jarir S. Dajani and Donald Wright, UP1:Mar 74:43:10388

System for Control of Construction Quality, Roland M. Parsons, CO1:Mar 72:21:8757

System Optimization of Waste Treatment Plant Process Design, Chia Shun Shih and John A. DeFilippi, SA2:Apr 70:409:7230

Systems Analysis and Solid Waste Planning, Robert M. Clark and James I. Gillean, EE1:Feb 74:7:10316

A Systems Analysis Method For Pavement Structures, William Ronald Hudson, B. Frank McCullough and Frank H. Scrivner, EC5:70:95

Systems Approach and the Civil Engineer, Kenneth W. Heathington and R. Brian Bonton, PP1:Oct 71: 65:8457

Systems Approach to Choice in Transport Technology, Edward J. Ward, TE4:Nov 70:455: 7656

A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286

Systems Approach to Petroleum Site Selection, William S. Gaither and John Patrick Sides, WW3: Aug 69:395:6750

Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Systems Innovations for Urban Transportation, Robert A. Burco and Clark D. Handerson, TE2: May 71:205:8126

Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147

Systems View of Professional Engineering, Albert S. Keevil, PP1:July 69:55:6689

Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476

Ten Years After: Confessions of an Overeducated Engineer, Richard M. Males, CEE:Feb 74:1-417

Time-Capacity Expansion of Waste Treatment Systems, Thomas M. Rachford, Russell F. Scarato and George Tchobanoglous, SA6:Dec 69:1063:6957

Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167

Transportation in Regional Plan for 1970's, W. John Hossack and J. Richard Hocking, TE4:Nov 70:633: 7648

Trends in Construction Materials: An Overview, Russel C. Jones and Fred Moavenzadeh, CE:Aug 69:28

Urban Engineering in the University, William T. Hafferty, PP1:Sept 70:15:7547

Urban Systems Planning: Implications for Civil Engineering Education, Ata M. Khan, CEE:Feb 74: 1-164

Urban Water Resources—Some Planning Fundamentals, Lawrence S. Costello, UP1:Mar 74: 57:10413

Use of Systems Analysis in Water Resources Planning, William K. Johnson, HY9:Sept 72:1543: 9174

Water Reuse Systems Analysis, A. Bruce Bishop and David W. Hendricks, SA1:Feb 71:41:7898

Watershed as Semiinfinite Storage Reservoir, Vit Klemes, IR4:Dec 73:477:10213

The 1970's: Civil Engineering Forecast-Part II, Kneeland A. Godfrey, Jr., CE:May 70:41

Systems Management

Construction Solid Waste, David A. Spivey, CO4: Dec 74:501:10993

Floor-Ceiling System Features Precast Concrete Units, Jerome S.B. Iffland, CE:Apr 72:52

Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909

Tables (Data)

Concrete Encased Steel Columns—Design Tables, Richard W. Furlong, ST9:Sept 74:1865:10807

Tabulation Processes

Formulation of Decision Logic Tables, Jimmy L. Noland and Chuan C. Feng, ST1:Jan 71:439:7855

Tachometers

Tacheometry in Survey Engineering, Joe E. Colcord, SU1:May 71:39:8141

Tailings

Shear Strength of Homestake Slimes Tailings, James V. Hamel and James W. Gunderson, TN: SM5:May 73:427:9703

Tailrace

Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261

Tailwater

Observations on Hydraulic Jumps at Rounded Step, James J. Sharp, HY6:June 74:787:10592

Tailwater Encroachment, David N. Raffel, PO2:Oct 69:167:6798

Theoretical Irrigation Tailwater Volumes, Ott C. Wilke, TN: IR3:Sept 73:415:9967

Tall Buildings

Additional Items Affecting Frame Strength, Egor P. Popov, TB:73:II-16-595

Aesthetics of Tall Buildings, William Henderson, TB: 73:Ia-1-256

AMP Centre, Peddle, Thorp and Walker, TB:73:C-P-402
Analysis of Dynamic Earthquake Response, State-of-Art Report 3, John A. Blume, TB:73:Ib-6-191
An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB:73:Ia-4-797
Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234
Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550
Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169
Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, Fritz Rafeiner, TB:73:Ia-12-1095
Architectural Criteria of Tall Buildings in Germany and Europe, Fritz Rafeiner, TB:73:Ia-12-1151
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079
Architectural Seismic Detailing, State-of-Art Report 3, Ormond Robert Berry, TB:73:Ia-12-1115
Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057
Architectural-Structural Interaction, Summary Report, Gunnar Essunger, TB:73:Ia-12-1163
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
Architecture of Tall Buildings, State-of-Art Report 8, Arthur James Mc Arthur, Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199
Aseismic Design in Romania, P. Mazilu, TB:73:Ib-6-279
Aseismic Design of Buildings, Jai Krishna, TB:73:Ib-6-299
Athens Tower, A. Albertis-TH. Dimopoulos S.A., TB:73:C-P-502
Australia Square, Seidler & Associates, TB:73:C-P-418
Automatic Voltage Drop Compensation for Tall Buildings, Frederick S. Rohatyn, TB:73:Ia-2-382
Bank of New South Wales, Peddle, Thorp and Walker, TB:73:C-P-408
Beam-Column Design, Maxwell G. Lay, TB:73:II-15-382
Beam-to-Column Connections in Non-Sway Frames, J. Witteveen and C. T.J. Bakker, TB:73:II-15-386
Beam-To-Girder Connections, Vincent R. Cartelli, TB:73:II-15-371
Behavioral Aspects of High Rise Buildings, Roy C. Herrenkohl, BP73:Dec 73:442
Behavior of Biaxially Loaded Columns, Wai F. Chen, TB:73:II-16-575
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, Karl Kordina, TB:73:III-23-555
Behaviour of Concrete-Filled Steel Tubular Columns, Wai F. Chen, TB:73:III-23-608
Brandywine Building, Vincent G. Kling and Partners, TB:73:C-P-386
Buckling Formulas for Design, John E. Goldberg, TB:73:II-16-581
Building B -- Santiago Central Development Program, J. Aguirre, C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Cast-in-Place Joints for Tall Concrete Buildings, State-of-Art Report 3, James O. Jirsa, TB:73:III-21-191
Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437
Central Penn National Bank, Vincent G. Kling and Partners, TB:73:C-P-362
Central Square, Fox & Associates, TB:73:C-P-424
Centre Square, Vincent G. Kling and Partners, TB:73:C-P-390
Century Park Plaza, Welton Becket and Associates, TB:73:C-P-334
Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462
Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, A. Kondratiev, TB:73:II-14-157
Chestnut-DeWitt Apartments, Skidmore, Owings & Merrill, TB:73:C-P-496
The Chicago Civic Center, Skidmore, Owings & Merrill, TB:73:C-P-492
CIL House, M. I. Gilmore, TB:73:C-P-284
Citizens Fidelity Bank, Welton Becket and Associates, TB:73:C-P-330
City Mutual Building, Seidler & Associates, TB:73:C-P-422
Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363
Clinton Square, Welton Becket and Associates, TB:73:C-P-338
Closing Remarks at Tall Buildings Conference, Le-Wu Lu, TB:73:C-511
Closing Remarks at the Tall Buildings Conference, Michael P. Gaus, TB:73:C-509
Codes and Model Testing, John Springfield, TB:73:Ib-7-431
Code Specification of Safety and Serviceability, State-of-Art Report 2, Emilio Rosenblueth, TB:73:Ib-10-931
Column-Supported Shear Walls With Openings, L. Cerny, TB:73:III-21-282
Commentary on Structural Standards, Summary Report, Ira Hooper, TB:73:II-13-147
Commentary on Structural Standards, Summary Report, Emory L. Kemp, TB:73:III-20-139
Commentary on Structural Standards, Theme Report, P. A. Lorin, TB:73:II-13-7
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Comments on Fire, M. Galbreath, J. H. Mc Guire and B. E. Allen, TB:73:Ib-8-721
Commerce Court, M. I. Gilmore, TB:73:C-P-294
Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), H. Rubin, TB:73:II-17-709
Composite Cores and Columns, Hannskarl Bandel, TB:73:Ia-3-632
Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, Emil Grasser and F. Daschner, TB:73:III-21-290
Computation of Twin Walls Connected by Clamped Beams, Axel Efsen and L. Pilegaard Hansen, TB:73:III-21-265
Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, Kenneth F. Reinschmidt, TB:73:C-AC31-159
Concrete Design Standards in Arab Countries, State-of-Art Report 6, Jacques Nasser, TB:73:III-20-113
Concrete Design Standards in Asia, State-of-Art Report 7, Hon Kwan Cheng, TB:73:III-20-117
Concrete Frame Construction, State-of-Art Report 6, W. S. Bellows, Jr., TB:73:Ia-4-777
Concrete Quality, Neil Jackson, TB:73:Ib-9-896
Construction in South America, State-of-Art Report 5, Sergio E. Pellegrini, TB:73:Ia-12-1135
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
The Continuum Analysis of Shear-Wall Structures, Riko Rosman, TB:73:III-21-271
Control of the Construction Process, State-of-Art Report 2, Richard C. Halpern, TB:73:Ia-4-689
Cracking and Control, Neil Jackson, TB:73:III-24-723
Cracking and Crack Control, Karl Kordina, TB:73:III-24-721
Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741

Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831
Crestline Apartments, Grigalis & Associates, TB:73:C-P-458
Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87
Current Questions, Problems, and Research Needs, State-of-Art Report 2, S. Covarrubias, A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63
Current Research on Tall Buildings, CRTB:72, 126pp.
Damage Evaluation, State-of-Art Report 5B, S. Bubnov, TB:73:Ib-6-247
Dead, Live and Construction Loads, State-of-Art Report 3, Sidney M. Johnson, TB:73:Ib-5-59
Deep Foundations - Piles and Caissons, State-of-Art Report 4A, G. M. Cornfield, TB:73:Ia-11-925
Deflections of Lightweight Reinforced Concrete Beams, John L. Heiman, TB:73:III-25-811
Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183
Design Assumptions, C. K. Lalwani, TB:73:Ib-5-127
Design Concepts for Prestressed Steel Structures, Miloslav Tochacek, TB:73:II-19-883
Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407
Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423
Design for Stability in High Rise Buildings, State-of-Art Report 2, Jerome S.B. Iffland, TB:73:II-16-445
Design for the Limit State of Instability, James G. Mac Gregor, TB:73:III-26-936
Designing to Prevent Fracture in Tall Buildings, State-of-Art Report 6, Stanley T. Rolfe and G. R. Egan, TB:73:II-18-781
Design Limitations for Fatigue, State-of-Art Report 5, Takeo Naka, TB:73:II-18-771
Design Methods Based on Stiffness, Summary Report, William J. Le Messurier, TB:73:II-17-715
Design Methods Based on Stiffness, Theme Report, Otto Steinhardt, TB:73:II-17-611
Design of Compensated Foundations, State-of-Art Report 1, Leonardo Zeevaert, TB:73:Ia-11-853
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131
Dimensional Tolerance - Concrete, State-of-Art Report 5, Philip W. Birkeland and Leonard J. Westhoff, TB:73:Ib-9-845
Dimensional Tolerance in Concrete, Anthony E. Fiorato and Sven Sahlin, TB:73:Ib-9-893
Distribution of Wind Loads to Soils, State-of-Art Report 2, Salvatore V. DeSimone, TB:73:Ia-11-881
Drift Criteria, State-of-Art Report 2, Roy G. Johnston, TB:73:II-17-635
Ductility and Seismic Response, Vitelmo V. Bertero, TB:73:Ib-6-303
Ductility of Masonry Walls, Rowland J. Mainstone, TB:73:III-27-1101
Dynamic Influences on Foundation Calculations for Tower Shaped Structures, Roman Ciesielski and Janus Kawecki, TB:73:Ia-11-999
Dynamic Soil-Structure Interaction, Robert V. Whitman, TB:73:Ib-6-310
Earthquake Effects on the Masonry of Multistory Buildings, Juan S. Carmona, TB:73:Ib-6-284
Earthquake Ground Motion, State-of-Art Report I, George W. Housner, TB:73:Ib-6-159
Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149
Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255
Economic Basis for Seismic Resistance, Herbert A. Sawyer, TB:73:Ib-6-319
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72, 171pp.
The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73:Ia-1-103
Economics of High-Rise Buildings, State-of-Art Report 4B, Walter F. Conlin, Jr., TB:73:Ia-1-119
Effect of Creep in Slender Columns, Neil Jackson, TB:73:III-23-625
Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73:III-23-537
Effect of Foundation Rotation, D. Dicke, TB:73:III-23-621
Effects of Foundations on Adjacent Structures, State-of-Art Report 3, Endre Horvat and Cornelius van der Veen, TB:73:Ia-11-905
Effects of Generalized Excitations on the Non-Linear Behavior of Reinforced Concrete Structures, State-of-Art Report 5, Vitelmo V. Bertero, TB:73:III-22-431
Elastic Analysis and Design, Summary Report, Leo Finzi, TB:73:II-14-247
Elastic Analysis and Design, Theme Report, Edwin H. Gaylord, TB:73:II-14-153
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elastic Analysis of Tall Concrete Buildings, Jacob Gluck, TB:73:III-21-300
Elastic Analysis-Strength of Members and Connections, Theme Report, Russell S. Fling, TB:73:III-21-149
Elastic Analysis-Strength of Members and Connections, Summary Report, Bruno Thurlimann, TB:73:III-21-325
Elastic and Limit States Design, I. A. El-Demirdash, TB:73:II-19-892
Elastic-Plastic Instability of Multi-Story Frames, Sriramulu Vinnakota, TB:73:II-16-568
Electrical Systems in Tall Buildings, State-of-Art Report 5, Jo Chen Strunk, TB:73:Ia-2-349
Empresa Nacional de Electricidad S. A. - Endesa's Building, Luis Larraguibel, TB:73:C-P-478
Environmental Systems, Summary Report, Henry J. Cowan, TB:73:Ia-1-289
Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7
The Equivalent-Beam Approach in Tall Buildings Stability Analysis, Erol Yarimci, TB:73:II-16-553
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153
Excavations and Deep Foundations, T. D. Dismuke, TB:73:Ia-11-1014
Exchange Centre, Peddle, Thorp and Walker, TB:73:C-P-406
Experimental Results of Joint Tests, Michel Kavyrchine, TB:73:III-21-323
External Blast, Stanislaw Kajfasz, TB:73:Ib-8-717
External Transportation, State-of-Art Report 9, Roger M. Seitz, TB:73:Ia-1-211
Factor of Safety of Connections, R. Delesques, TB:73:II-19-890
Failure Model Calculations, Horea Sandi, TB:73:Ib-10-1038
Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818
Fatigue and Fracture, Theme Report, A. A. van Douwen, TB:73:II-18-721
Fatigue Damage in Seismic Steel Members, Ramachandran Srinivasan and William H. Munse, TB:73:II-18-814
Fatigue Damage in Seismic Structures, Mubadda T. Suidan, TB:73:II-18-808
Fidelity Mutual Life, Vincent G. Kling and Partners, TB:73:C-P-368

Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127
Finland House, Kahn & Jacobs, TB:73:C-P-350
Fire and Blast, Summary Report, Duiliu Sfintesco, Margaret Law and Rowland J. Mainstone, TB:73:Ib-8-739
Fire and Blast, Theme Report, Duiliu Sfintesco, TB:73:Ib-8-463
Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, Ove Pettersson, TB:73:Ib-8-585
Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475
Fire Safety, Calvin H. Yuill, TB:73:Ib-8-677
Fire Safety in High Rise Buildings, David C. Grupp, BP73:Dec 73:454
First & Merchants National Bank, Welton Becket and Associates, TB:73:C-P-322
First National Bank of Oregon, Ormond Robert Berry, TB:73:C-P-258
First Wisconsin Center, Skidmore, Owings & Merrill, TB:73:C-P-494
Flexural Stiffness, James G. Mac Gregor, TB:73:III-24-724
Focal Points of the Studies in Our Design, Kiyoshi Muto, TB:73:C-DM-217
Foreword, ASCE-IABSE Joint Committee on Tall Buildings, TB:73:C-P-229
Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026
Foundation Design, Theme Report, William F. Swiger, TB:73:Ia-11-849
Frame Analysis Considering Connection Shear Deformation, Wai F. Chen and David J. Fielding, TB:73:II-15-365
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959
General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67
German Code Requirements, Gert Konig, TB:73:Ib-10-1027
Goal Oriented Systems Approach to Building Fire Safety, Harold E. Nelson, TB:73:Ib-8-692
Gravity Loads and Temperature Effects, Summary Report, David E. Allen, TB:73:Ib-5-145
Half Frame Method, Bernardo J. Deschapelles, TB:73:II-16-591
Hampshire Plaza, Welton Becket and Associates, TB:73:C-P-342
Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, Sital Darayanani, TB:73:Ia-2-319
High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985
High Cycle Fatigue of Connections and Details, State-of-Art Report 4, John W. Fisher and T. R. Gurney, TB:73:II-18-757
High Quality Structural Masonry Based on Controlled Parameters, Sven Sahlin, TB:73:III-27-1086
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067
High Rise Construction in France, State-of-Art Report 4B, Jean A. Roret, TB:73:Ia-4-741
Historical Steel Frame in France, Duiliu Sfintesco, TB:73:Ia-1-268
The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41
History and Philosophy of Tall Buildings, Rowland J. Mainstone, TB:73:Ia-1-264
Horizontal Versus Vertical Transportation, George R. Strakosch, TB:73:Ia-2-375
Hotel "Intourist" Smolenskaya Square, N. P. Melnikov, TB:73:C-P-240
Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137
Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811
Human Response to Tall Building Wind-Induced Motion, State-of-Art Report 6, John W. Reed, Robert J. Hansen and Erik H. Vanmarcke,, TB:73:II-17-687
Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, J. F. Camellerie, TB:73:Ia-4-781
ICBO-BOCA Fire Provisions, John G. Degenkolb, TB:73:Ib-8-733
Impact and Dynamic Load Effects, State-of-Art Report 4, Masanori Izumi, TB:73:Ib-5-77
Implementation, Elmer K. Timby, TB:73:C-DM-225
Imposed Rotations Methods, State-of-Art Report 3, Jean Claude Maldague, TB:73:III-22-395
Inelastic Behavior Under Cyclic Loading, Egor P. Popov, TB:73:II-15-383
Inelastic Dynamic Behavior of Tall Buildings, James Lord, TB:73:Ib-6-291
Inspection Practices for Tall Buildings, Lowell A. Napper, TB:73:Ib-9-898
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Interaction Approach in Poland, Stanislaw Kajfasz, TB:73:Ia-12-1149
Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675
Internal Blast, State-of-Art Report 6, Rowland J. Mainstone, TB:73:Ib-8-643
International Standards on Steel, Albert J. Oudheusen, TB:73:II-13-135
Introduction to Tall Buildings Conference, Lynn S. Beedle, Chmn, TB:73:C-21
Introduction to Tall Buildings Proceedings, Lynn S. Beedle, TB:73:C-1
Japanese Structural Standards for Reinforced Concrete Buildings, Masahide Tomii, TB:73:III-20-125
John Hancock Center, Skidmore, Owings & Merrill, TB:73:C-P-498
Keynote Address at Tall Buildings Conference, Stewart S. Cort, Chairman, Bethlehem Steel Corp., TB:73:C-33
La Defense, Duiliu Sfintesco, TB:73:Ia-1-274
Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, Y. Yokoo and Hiroshi Akiyama, TB:73:II-17-619
Le Chateau Champlain, T. A. Monti, TB:73:C-P-278
Limit State for Dynamic Loads, Horea Sandi, TB:73:III-26-938
Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949
Limit States Design, Theme Report, Franco Levi, TB:73:III-26-843
Load Factor (Limit States) Design, Summary Report, William C. Hansell and Ivan M. Viest, TB:73:II-19-899
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
Loadings on Buildings, State-of-Art Report 2A, G. R. Mitchell, TB:73:Ib-5-19
Loads and Load Combinations, State-of-Art Report 4, Horea Sandi, TB:73:Ib-10-973
Logarithmic Profiles and Design Wind Speeds, Emil Simiu, EM5:Oct 73:1073:10100
Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741
Masonry Building Systems, State-of-Art Report 9, Alan H. Yorkdale, TB:73:Ia-3-567
Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103
Masonry Structures, Theme Report, Arnold W. Hendry, TB:73:III-27-957
Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477
McGraw-Hill, Harrison & Abramovitz, TB:73:C-P-430
Meaning of Structural Design, Bruce G. Johnston, TB:73:II-19-894

Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB:73:Ib-8-523

Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833

Methods of Analysis, Bernardo J. Deschapelles, TB:73:III-21-309

Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373

Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, Toshiharu Hisatoku and Fujio Nishikawa, TB:73:Ia-3-501

Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296

Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456

Nauru House, Perrott, Lyon, Timlock & Kesa, TB:73:C-P-428

A New Kind of Ground Motion, G. Rudolfo Saragoni, TB:73:Ib-6-323

New Mortars, Prefab Walls Transform Concrete Masonry, Henry T. Toennies, CE:July 73:46

Non-Linear Analysis and Limit Design, Summary Report, Herbert A. Sawyer, TB:73:III-22-483

Nonlinear Analysis of Concrete Flexural Members, John M. Kulicki and Celal N. Kostem, TB:73:III-22-473

Non-Synchronous Ground Motion, Horea Sandi, TB:73:Ib-6-325

One Astor Plaza, Kahn & Jacobs, TB:73:C-P-348

One Hundred Summer Street, Welton Becket and Associates, TB:73:C-P-314

One Shell Plaza, Skidmore, Owings & Merrill, TB:73:C-P-488

One Shell Square, Skidmore, Owings & Merrill, TB:73:C-P-490

Opening Remarks to Tall Buildings Conference, Le-Wu Lu, Conference Chairman, TB:73:C-19

Optimization, Akbar R. Tamboli, TB:73:II-14-239

Optimization of Structures, Narbey Khachaturian, TB:73:II-14-233

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091

Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72:1697:9154

Parking Design and Requirements for High Rise Building, State-of-Art Report 11, Richard C. Rich, TB:73:Ia-1-225

Pedestrian System Planning for High Rise Buildings, John J. Fruin, TE3:Aug 74:675:10741

Penn Center, Vincent G. Kling and Partners, TB:73:C-P-380

Photographs of Tall Buildings, State-of-Art Report 2, N. Abaya and E. Ozer, TB:73:C-AC14-113

Pierced Shear Walls of Stepwise Variable Thickness, Alexander Coull, TN: ST5:May 74:1157:10536

Pittsburgh National Building, Welton Becket and Associates, TB:73:C-P-310

Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183

Planning and Desing of Tall Buildings, Lynn S. Beedle, Chmn. and Le-Wu Lu, Chmn., TB:74, 5200pp.

Plastic Analysis and Design, Summary Report, George C. Driscoll, Jr., TB:73:II-15-399

Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279

Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, M. R. Horne, TB:73:II-15-311

Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653

Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327

Polynomial Stiffness Coefficients, Jacob Gluck, TB:73:II-16-593

Practical Design of Masonry Buildings, R. M. Gensert and William C. Bretnall, TB:73:III-27-1069

Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591

Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489

Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, S. Hal Iyengar, TB:73:II-14-185

Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615

Probabilistic Analysis of Fire Safety, Sven Erik Magnusson, TB:73:Ib-10-1016

A Probabilistic Approach Toward Integrated Fire Engineering Design, J. Witteveen, TB:73:Ib-8-728

Probabilistic Methods, Jack R. Benjamin, TB:73:Ib-10-1013

Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131

Progressive Collapse Risk, Norman F. Somes, TB:73:Ib-8-727

Prudential Insurance Tower, Charles Luckman Associates, TB:73:C-P-358

Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165

Quality Control Criteria, Summary Report, E. James White, Robert L'Hermite and I. Gramolin, TB:73:Ib-9-901

Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749

Quality Control in Steel Frame Fabrication of Tall Buildings, State-of-Art Report 3, Sansei Miki, Hiroshi Ohba and Toshio Kamei, TB:73:Ib-9-817

Quality Control of Concrete in Germany, Manfred Stiller, TB:73:Ib-9-897

Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73:Ib-9-889

Rating of Ground Motion, Arturo Arias, TB:73:Ib-6-320

Rational Analysis of Raft Foundation, Stephen J. Hain and Ian K. Lee, GT7:July 74:843:10683

Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, Kristoffer Apeland, TB:73:Ib-5-85

Reinforced Concrete Beam-Column Joints, Yoichi Higashi and Yoshimasa Owada, TB:73:III-21-259

Reinforced Concrete Column Response to Fire, Boris Bresler and H. Bizri, TB:73:Ib-8-723

Reinforced Masonry and the Pathology of Masonry, O. Pfeffermann, TB:73:III-27-1088

Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, Michel Kavyrchine, TB:73:Ia-3-415

A Remark on the Probabilistic Analysis of Structural Safety, Alessandro Baratta, TB:73:Ib-10-1039

Repair of Steel Structures After Fire, Roger H. Wildt, TB:73:Ib-8-688

Repeated and Cyclic Loadings, Hiroyuki Aoyama, TB:73:III-22-460

Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, Gaylord R. Claiborne and Lucien Wahl, TB:73:Ib-8-541

Research Regarding the Interaction of Shear Walls and Frames, Constantin N. Avram, Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318

Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365

Research Review -- North and South America, State-of-Art Report 3, W. Alan Dalgliesh and R. D. Marshall, TB:73:Ib-7-383

The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711

Response Function, State-of-Art Report 4, Theodore V. Galambos, TB:73:II-19-861

Response of Steel Building in Fire, Maxwell G. Lay, TB:73:Ib-8-719

Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, N. P. Melnikov, TB:73:II-13-121

Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45
Review of Steel Design Standards in Australia, State-of-Art Report 4B, Maxwell G. Lay, TB:73:II-13-71
Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
Rotonda Vitacura Building, J. Aguirre and A. Aguirre, TB:73:C-P-482
Royal Bank Building, M. I. Gilmore, TB:73:C-P-288
Royal Exchange Building, Peddle, Thorp and Walker, TB:73:C-P-414
Safety Analysis for Tall Buildings, State-of-Art Report 5, Fred Moses and Milik Tichy, TB:73:Ib-10-993
Safety Level Decisions, State-of-Art Report 3, Niels C. Lind and E. Basler, TB:73:Ib-10-961
Safety Practices, State-of-Art Report 3, Rex K. Rainer and Phillip F. Moon, TB:73:Ia-4-701
Sears Tower, Skidmore, Owings & Merrill, TB:73:C-P-500
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, A. Negoita and Ion G. Pop, TB:73:III-21-247
Seismic Design of Nonstructural Elements, Roland L. Sharpe, TB:73:Ia-12-1143
Serviceability, Emil Grasser, TB:73:III-22-465
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389
Service Systems, Theme Report, Richard Baum, TB:73:Ia-2-305
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870
Shear Walls, State-of-Art Report 4, Masahide Tomii, TB:73:III-21-203
Shrinkage Effect of Structural Concrete Walls in Multi-Story Buildings, Iosif Gruner, Grigore Rotaru and Radu Frunza, TB:73:III-25-827
Sidesway Instability of Unbraced Tube Buildings, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-598
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139
Societal Factors and Tall Buildings, State-of-Art Report 2, Charles Brownstein and Leonard Ruchelman, TB:72:C-AC19-151
Soil-Structure Interaction, Michele Belloni and Michele B. Jamiolkowski, TB:73:Ia-11-990
Soil-Structure Interaction for Tall Buildings, State-of-Art Report 5, John T. Christian, TB:73:Ia-11-967
Soil-Structure Interaction for Tall Buildings, John A. Focht, Jr., TB:73:Ia-11-1008
Some New Plastic Analysis and Design Techniques, Leroy Z. Emkin, TB:73:II-15-377
Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
Sprinklers, H. W. Marryatt, TB:73:Ib-8-681
Stability and Drift Problem, State-of-Art Report 3, P. Dayaratnam and Y. C. Das, TB:73:II-15-303
Stability of Framed Structures, Moshe F. Rubinstein and Richard M. Pickett, Jr., TN: EM2:Apr 73:429:9641
Stability of Frames and Shear Walls, Gert Konig, Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613
Stability of Overall Structural Systems, S. Hal Iyengar, TB:73:II-16-564
Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, James G. Mac Gregor, TB:73:III-23-517
Stability of Three Dimensional Building Frames, State-of-Art Report 4, Peter F. Adams, TB:73:II-16-483
Stability, Summary Report, A. Carpena, TB:73:II-16-605
Stability, Summary Report, Boris Bresler, TB:73:III-23-631
Stability, Theme Report, George Winter, TB:73:II-16-409
Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499
Standard Bank Centre (Johannesburg S.A.), Hentrich - Petschnigg & Partner, TB:73:C-P-446
Standard Oil of Indiana Building in Chicago, E. Alfred Picardi, TB:73:C-P-244
Standard Oil of N.J., Harrison & Abramovitz, TB:73:C-P-431
Standards for Steel Construction in the United States, State-of-Art Report 1, William A. Milek, Jr., TB:73:II-13-13
State Office Building, Dalton, Dalton, Little & Newport, TB:73:C-P-434
Steel Construction, State-of-Art Report 5A, K. D. Cunningham, TB:73:Ia-4-753
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767
Stiffening Effect of Light Cladding, State-of-Art Report 4A, Eric R. Bryan and J. M. Davies, TB:73:II-17-643
Stiffness and Crack Control, Summary, J. Ferry Borges, TB:73:III-24-727
Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639
Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455
Stiffness Related to Nonstructural Elements, Frank Newby, TB:73:Ia-12-1141
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705
Stochastic Models and Live Load Surveys, State-of-Art Report 2B, William E. Greene, Jr., TB:73:Ib-5-35
Stock Exchange Building, Vincent G. Kling and Partners, TB:73:C-P-372
Strength Factors for Composite Members, David E. Allen, TB:73:III-26-940
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907
Stress Analysis of Group of Interconnected Thin-Walled Cantilevers, Jacob Gluck and Mordechai Krauss, ST10:Oct 73:2143:10089
Stresses in Walls Due to Vertical Loads, Gunnar Karrholm and Hans Petersson, TB:73:III-21-302
Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001
Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Structural Design of Masonry Buildings, Walter L. Dickey, TB:73:III-27-1057
Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1
Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, Theodore R. Higgins, TB:73:II-1
Structural Safety and Probabilistic Methods, Theme Report, C. Allin Cornell, TB:73:Ib-10-911
Structural Safety and Probabilistic Methods, Summary Report, Luis Esteva, TB:73:Ib-10-1043
Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87
Structural Steel Tiered Building Frames, State-of-Art Report 3, Anthony F. Nassetta, TB:73:Ia-3-465
Structural Systems for Very Tall Buildings, Hannskarl Bandel, TB:73:Ia-3-627
Structural Systems of Tall Buildings with Core Structures, State-of-Art Report 8, Jiri Kozak, TB:73:Ia-3-537
Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647
Structural Systems, Summary Report -- Part II, Friedrich K. Reinitzhuber, TB:73:Ia-3-651
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642

Structural Systems, Theme Report, Leslie E. Robertson, TB:73:Ia-3-403
Surface Bonded Masonry Construction, Robert J. Young, TB:73:III-27-1099
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128
Sway in Structures, Maxwell G. Lay, TB:73:II-16-590
A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, John P. Eberhard, TB:73:Ia-1-133
Systematic Design of Multistory Buildings, John F. Brotchie, ST7:July 74:1489:10678
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147
Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91
Tall Buildings Bibliography, Gerard F. Fox, TB:73:C-AC10-39
Tall Buildings: Computerized Bibliography, Committee on Bibliography, TB:73:C-AC10-47
Tall Buildings, Conference Summary, Duiliu Sfintesco, TB:73:C-505
Tall Buildings Elastically Coupled, Ramiro Sofronie, TB:73:Ia-3-637
Tall Buildings in Antiquity, Douglas D. Feaver, TB:73:Ia-1-251
Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793
Tall Buildings in the World (The Viewpoint of a Non-American), Duiliu Sfintesco, TB:73:C-13
Tall Buildings: Major Characteristics, State-of-Art Report 1, E. Ozer, N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93
Tall Buildings: Preliminary Bibliography, Committee on Bibliography, TB:73:C-AC10-41
Team Effort, Robert J. Young, TB:73:C-DM-215
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB:73:III-25-793
Temperature Loads, State-of-Art Report 6, Lin Y. Huang, TB:73:Ib-5-97
Tensile Ties in Precast Concrete Systems, Adrian Pauw, TB:73:III-23-623
Theme Report: Committee on Tall Building Research, Ivan M. Viest and Wai F. Chen, TB:73:C-AC11-53
Theme Report, Committee on the Survey of Tall Buildings, Neal FitzSimons, TB:73:C-AC14-87
Thickness Effects on Creep, Giorgio Macchi, TB:73:III-25-829
Three-Dimensional Analysis, Bernardo J. Deschapelles, TB:73:III-24-725
Three-Dimensional Analysis of Shear Wall Buildings to Lateral Load, Jayanta K. Biswas and Wai K. Tso, ST5:May 74:1019:10537
Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, Miguel Carlos Stamato, TB:73:III-24-683
Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193
Thyssenhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-448
Toronto-Dominion Center, M. I. Gilmore, TB:73:C-P-301
Torsional-Flexural Vibration of Multi-Story Structures, Jacob Gluck, TB:73:Ib-6-298
Torsion/Flexure Interaction, Neil Jackson, TB:73:III-22-463
Tour Apogee, Skidmore, Owings & Merrill, TB:73:C-P-486
Toward A Socio-Technology of High Rise Buildings, George Bugliarello and Harold Simon, TB:73:Ia-1-270
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Towards Risk-Based Design and Performance Criteria, Alfredo H.-S. Ang, TB:73:Ib-10-1007
Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
Ultimate Deformation of Reinforced Concrete, Minoru Yamada, TB:73:III-22-467
Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229
Unileverhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-450
Union Bank, Welton Becket and Associates, TB:73:C-P-326
United California Bank, Ormond Robert Berry, TB:73:C-P-251
United States Steel Corporation Building, Harrison & Abramovitz, TB:73:C-P-432
University of Delaware Dormitories, Charles Luckman Associates, TB:73:C-P-360
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
The Use of Lightweight Alloys in Tall Buildings, Robert J. Brungraber, TB:73:Ia-3-623
Use of Thin Shells for Tall Buildings, Jacques Nasser, TB:73:Ia-3-643
Valley Center, Welton Becket and Associates, TB:73:C-P-318
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755
Vertical Transportation, State-of-Art Report 4, Calvin L. Kort, TB:73:Ia-2-341
Vertical Wall Joints, M. Pommeret, TB:73:III-21-277
Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, Kenneth H. Lenzen, TB:73:II-17-667
The Wainwright Building, John D. Randall, TB:73:C-P-352
Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603
Welcoming Remarks at Tall Buildings Conference, Albert C. Zettlemoyer, Vice President and Provost, Lehigh University, TB:73:C-25
Welcoming Remarks at the Tall Buildings Conference, Oscar S. Bray, President, ASCE, TB:73:C-27
Welcoming Remarks at the Tall Buildings Conference, Maurice Cosandey, President, IABSE, TB:73:C-29
Welcoming Remarks at the Tall Buildings Conference, Raymond Bisplinghoff, Deputy Director, NSF, TB:73:C-31
Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851
Westchester County Courthouse, Welton Becket and Associates, TB:73:C-P-302
What Safety Margin is Necessary in a Structure?, F. K. Lightenberg, TB:73:Ib-10-1032
Wind Effects on Tall Buildings -- Areas for Research, Jack E. Cermak, TB:73:Ib-7-435
Wind Loading and Wind Effects, Summary Report, S. Mackey, TB:73:Ib-7-445
Wind Loading and Wind Effects, Theme Report, Alan G. Davenport, TB:73:Ib-7-335
Wind Spectra and Dynamic Alongwind Response, Emil Simiu, ST9:Sept 74:1897:10815
Wind Tunnel Test Expectations, W. H. Melbourne, TB:73:Ib-7-441
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394
200 West Monroe Building, Welton Becket and Associates, TB:73:C-P-306
2001 Bryan Street Tower, Neuhaus & Taylor, TB:73:C-P-282

Tanker Ships

All-Weather Tanker Terminal for Cook Inlet, Alaska, William S. Gaither and Robert E. Dalton, WW2: May 69:131:6549

Pollution of the Marine Environment by Oig, Ralph L. Rhodes, CEO-II:70:1211

Supercarriers Versus U.S. Harbor Dimensions, Francis P. Koisch, WW1:Feb 71:19:7904

Tanks (Containers)

Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101

Basin Tracer Curves Interpreted by Basic Analytics, A. Adler Hirsch, SA6:Dec 69:1031:6951

Behavior of Square Tanks on Elastic Foundations, John Duncan Davies and John Edward Long, EM3: June 68:753:5985

Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72: 287:8819

Column Moments in Eccentrically Supported Tanks, Phillip L. Gould and Subir K. Sen, TN: ST10:Oct 74:2165:10858

Concrete Oil Storage Tank to Rest in North Sea, Ben C. Gerwick, Jr. and Eivind Hognestad, CE:Aug 73: 81

Design of FRP Fluid Storage Vessels, Frank J. Heger, ST11:Nov 70:2465:7698

Optimum Design of Reinforced Concrete Tanks, Robert E. Melchers and George I. N. Rozvany, EM6:Dec 70:1093:7739

Plastic Analysis of a Plate Sealing a Fluid, Richard H. Lance and David N. Robinson, EM6:Dec 70: 1183:7742

Pressure-Stabilized Drop-Shaped Tanks, John W. Leonard, TN: EM10:Oct 73:1110:10041

Settlement Histories of Four Large Tanks on Sand, Melvin T. Davisson and James R. Salley, PES:72:I-981

Settlement of Two Tanks on Loose Cohesionless Soil, Leonard J. Langfelder and David W. Johnston, 4PCSM:71:II15

Settlements Development: Observed Versus Predicted, Abraham Ellstein, PES:72:I-1073

Settlements of Steel Tanks Founded on Clays (In Spanish), O. A. Varde, E. Nunez, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II179

A Simplified Approach to Compute Natural Frequencies of Vertical Tanks and Heat Exchangers with Skirt Supports, Chi-Wen Lin, SDNPF:Dec 73: 35

Tracer Dispersion of High Rate Settling Tanks, Hassan M. El-Baroudi and David R. Fuller, EE3: June 73:347:9820

Tanning Materials

Monte Carlo Simulation of Industrial Waste Discharges, Paul M. Berthouex and Linfield C. Brown, SA5:Oct 69:887:6836

Tape Corrections

Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923

Slope Taping, Joe E. Colcord and Frank H. Chick, SU2:Sept 68:137:6098

Taping

Investigation of Dynamic Taping, Bruce W. Golley and John Sneddon, SU2:Nov 74:115:10938

Taxes

Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619

Commercialism in Tax-Favored Institutions, Samuel H. Clark and Raymond Lundgren, PP1:Sept 70:93: 7560

Financial Tools for a Geotechnical Consulting Firm, Roy T. Sheehey, 4PCSM:71:II345

The Highway Explosion, Albert A. Bartlett, CE:Dec 69:71

Interdistrict Apportionment of Flood Control Costs, Richard R. Dague, E. Robert Baumann and Paul E. Morgan, IR4:Dec 68:441:6298

Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350

Plan for Financing Urban Mass Transit Systems, Robert T. Howe, TE2:May 70:219:7286

Planning Profitable Irrigation Investments in Missouri, Herman E. Workman, OIDS:72:491

Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991

Taxiways

Optimization of Runway Exit Configurations, Everett S. Joline, TE1:Feb 74:85:10350

T Beams

Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655

Technical Papers

Dsc, Request for Technical Publications, Marcelo Fernandes Cascione, CE:Aug 72:64

Technical Societies

Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656

Technical Writing

Clear Communication--Key to Professional Development, M. D. Morris, PP1:Jan 72:77:8659

Technicians

C.E. Technology Minority Student Considerations, Philip L. Brach, CEE:Feb 74:1-296

Construction Course for Junior High Schools, Donald G. Lux and Willis E. Ray, CE:May 71:37

Employment Survey -- Environmental Technology, Robert H. Creamer, CEE:Feb 74:1-270

The Engineering Technician: An Underutilized Resource, Ronald P. Shumate, CE:Feb 72:64

Engineering Technology at Florida International (Bachelor's Programs for a Major Urban Region), Robert W. Ellis, Jr., CEE:Feb 74:1-264

How Industry Has Accepted the Oregon State University C.E.C. Construction Program Graduates, Harold D. Pritchett and William T. Peckham, CEE: Feb 74:1-670

Junior-Senior Bachelor of Technology Programs, Joseph H. Moore, CEE:Feb 74:1-221

Partners as First-Class Engineering Technicians, James C. Farley and Noel L. Caldwell, CEE:Feb 74:1-286

PennState Civil Engineering Construction Education, Jack H. Willenbrock, CEE:Feb 74:1-628

Technician and Technologist Education in 1974, John L. Rumpf, CEE:Feb 74:1-210

Technician and Technology Programs, John L. Rumpf, CEE:Feb 74:2-49

Technician Manpower Needs in Florida, Richard D. Ray, CEE:Feb 74:1-279

Technologists

How Industry Has Accepted the Oregon State University C.E.C. Construction Program Graduates, Harold D. Pritchett and William T. Peckham, CEE: Feb 74:1-670

Junior-Senior Bachelor of Technology Programs, Joseph H. Moore, CEE:Feb 74:1-221

Technology

Aerospace Technical Applications in Civil Engineering, David J. Barr, Chmn., TE4:Nov 74: 959:10945

Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68

Bachelor of Civil Engineering Technology at the University of North Carolina at Charlotte, Richard R. Phelps, CEE:Feb 74:1-254

Bachelor of Technology: Six Years Experience, John D. Antrim, Milan E. Degyansky and William A. Welsh, CEE:Feb 74:1-231

BS-CET Program at Western Kentucky University, Boyce D. Tate, CEE:Feb 74:1-244

Committee Rap Sessions (Panel Discussions), CEE: Feb 74:2-254

Creativity and the Anti-Technologists, Samuel C. Florman, CEWAU:74:18
Engineering and Today's Social Problems, Donald C. Slichter, CE:Mar 72:64
Engineering Technology at Florida International (Bachelor's Programs for a Major Urban Region), Robert W. Ellis, Jr., CEE:Feb 74:1-264
An Evaluation of the Bachelor of Technology Program, C. Kenneth Myers, CEE:Feb 74:1-239
In Defense of Dubos and Ellul, Kim de Rubertis, CE:Dec 72:51
Involvement of Practitioners, Broadening the Program, Technology Graduates, Students and Guidance (Panel Discussions), CEE:Feb 74:2-234
Junior-Senior Bachelor of Technology Programs, Joseph H. Moore, CEE:Feb 74:1-221
Proposed New ASCE Policy on Engineering Education - Role of Technology Graduates (Discussion), Angelo L. Gutierrez, CEE:Feb 74:2-296
Technician and Technologist Education in 1974, John L. Rumpf, CEE:Feb 74:1-210
Technician and Technology Programs, John L. Rumpf, CEE:Feb 74:2-49
Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512
Using Technology to Solve Environmental Problems, Ernest T. Smerdon and Robert B. Gaither, EI4:Oct 74:273:10847
Workshop A -- Advances in Concrete Technology, Samuel D. Burks, ECCD:72:153

Tectonics
Tectonic Stresses and Rock Slope Stability, Jerry S. Dodd and H. Walter Anderson, RM13:72:171

Tees
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348
Energy Losses at 90° Pipe Junctions, H. Ito and K. Imai, HY9:Sept 73:1353:10022

Telecommunication
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100

Telemetry Systems
Automation For Small Irrigation Projects, Theodore E. Mann, IR3:Sept 71:501:8344
Optimizing of Canal Flow in All Seasons, E. L. Hamilton, OIDS:72:521

Telescopes
Minimum Weight Design of Enclosed Antennas, Mehdi S. Farghamee, ST6:June 69:1139:6592

Television
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213

Television Broadcasting
Educational TV Film Spots for Engineering, Kaye Finch, Frederick O. Leidel and James R. Villemonte, CEE:Feb 74:1-1015

Television Display Systems
Television Display of Topographic Maps, Kam W. Wong and Nick G. Yacoumelos, SU2:Nov 71:273:8531

Television Interference
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213

Television Systems
Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061
Observation of Sedimentmotion by Underwater-Television, Gunter Luck, 12CEC:71:687

Temperate
Stability of a Heated Plastic Column, Li-Chung Tao and Atle Gjelsvik, EM5:Oct 69:1169:6849

Temperature
Analysis of Water Temperature Variations in Large River, Veerasamy Kothandaraman, SA1:Feb 71:19:7908
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
Behavior of Continuous Crane Rails, Pavel J. Marek and J. Hartley Daniels, ST4:Apr 71:1081:8067
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682
Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378
Chlorine Disinfection of Low Temperature Waters, Leroy C. Reid, Jr. and Dale A. Carlson, EE2:Apr 74:339:10443
Concrete Dams Built Without Contraction Joints, Roy W. Carlson, RCCD:70:187
Control of Thermal Effects at Beaver Valley Station, Robert J. McAllister, Lawrence C. Neale and Bruno Brodfeld, PO3:June 70:289:7319
Cooling Water Density Wedges in Streams, Edward M. Polk, Jr., Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
Cooling Water Structures for FitzPatrick Nuclear Plant, Ralph W. Gunwaldsen, Bruno Brodfeld and George E. Hecker, PO4:Dec 71:767:8572
Cooling Water Studies at Electric Power Station, R. Fred Gray and J. Ben Stephenson, PO2:Oct 69:293:6853
Creep and Shrinkage Law for Concrete at Variable Humidity, Zdenek P. Bazant and Spencer T. Wu, EM6:Dec 74:1183:10995
Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741
Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831
Dynamic K_c Testing of Structural Steel, Ronald B. Madison and George R. Irwin, ST7:July 74:1331:10653
Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988
Effect of Inorganics on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, NSCD:71:85
Effect of Stream Turbulence on Heated Water Plumes, James Weil and Hugo B. Fischer, HY7:July 74:951:10674
Effects of Forest Management on Stream Temperature, George W. Brown, IAWM:72:93
The Effects of Temperature, Confining Pressure, Strain-Rate and Interstitial Water on the Rheological Behavior of Calcite Rocks -- Abstract, E. H. Rutter, RM14:73:753
Effects of Water Temperature on Bed-Load Movement, John J. Franco, WW3:Aug 68:343:6083
Elastic Analysis and Design, Summary Report, Leo Finzi, TB:73:II-14-247
Electrical Dispersion in Relation to Soil Structure, James K. Mitchell and Kandiah Arulanandan, SM2:Mar 68:447:5853
Estimation of Deep Freezing Indices, George McCormick, TE3:Aug 71:401:8276
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
Examination of the Thermocline, John C. Sonnichsen, Jr. and Clarence A. Oster, SA2:Apr 70:353:7219
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901
Fate of Thermally Polluted Surface Water in Rivers, Cheng-Lung Chen, SA3:June 71:311:8197

Fire in Vegetation Management: Its Effects on Soil, L. F. DeBano and Raymond M. Rice, IAWM:72:327
Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475
Fire Resistance of Unprotected Steel Columns, W. W. Stanzak and T. T. Lie, ST5:May 73:837:9719
Flux Development Region in Submerged Jets, W. Hall C. Maxwell, EM6:Dec 70:1061:7756
Generalized Stream Temperature Analysis System, Daniel P. Bauer, Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167
Gravity Loads and Temperature Effects, Summary Report, David E. Allen, TB:73:Ib-5-145
Gravity Loads and Temperature Effects, Theme Report, Raymond C. Reese, TB:73:Ib-5-5
Heated Surface Jets in a Steady Crosscurrent, Robert W. Zeller, John A. Hoopes and Gerard A. Rohlich, HY9:Sept 71:1403:8385
Heated Water Jet in Coflowing Turbulent Stream, Mostafa A. Shirazi, Raul S. McQuivey and Thomas N. Keefer, HY7:July 74:919:10661
Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, Eugene P. Holland, TB:73:III-25-805
Hydraulics and Thermal Dispersion in an Irregular Estuary, Ralph R. Boericke and Darryl W. Hall, HY1:Jan 74:85:10282
Infrared Aerial Surveys in Environmental Engineering, Rudolph V. Matalucci and Mohamed Abdel-Hady, SA6:Dec 68:1071:6277
Lateral Spreading of Heated Discharge, John C. Sonnichsen, Jr., PO3:July 71:623:8245
Lower Strength Steel Brittle Fracture Assessment, Mohammed H. Magued and D J. Laurie Kennedy, ST5:May 74:983:10551
Membrane Solutions for Shells with Edge Constraint, Charles R. Steele, EM3:June 74:497:10605
Modeling Gas Mixing within Steel Chimney Liners, James J. Markowsky, EPCE:Aug 74:137
Model of Natural Draft Cooling Tower Performance, Lawrence D. Winiarski and Bruce A. Tichenor, SA4:Aug 70:927:7461
Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909:10208
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
Power Plant Cooling Water Discharge in Streams, Liang-Tseng Fan, Jie-Tsai Tseng and Ching Hwang, PO4:Dec 71:841:8595
Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5:May 73:729:9730
The Pressure of Floating Ice-fields on Piles, Joachim Schwarz, 12CEC:71:1523
Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131
Rapid Coastal Bottom Water Temperature Rises, Paul D. Higley and David O. Cook, EE4:Aug 74:955:10734
Reducing Pond Evaporation with Perlite Ore, Keith R. Cooley and C. Brent Cluff, IR2:June 72:255:8953
Repair of 7-Story Bearing Wall, Russell S Fling, CO1:July 69:39:6669
Research Needs on Thermal and Sedimentary Pollution in Tidal Waters by the Committee on Tidal Hydraulics of the Hydraulics Division, Frank D. Masch, Chmn., HY7:July 70:1539:7426
Statistical Assessment of DO in Navigation Pool, Thomas A. Butts, Donald H. Schnepper and Ralph L. Evans, SA2:Apr 70:477:7235
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. Mohan Malhotra, EM2:Apr 74:305:10489
Swirling Shallow Submerged Turbulent Plumes, Jai P. Narain, HY9:Sept 74:1229:10820
Temperature Effect on Shear Wave Velocity in Clays, Donald G. Anderson and Frank E. Richart, Jr., TN: GT12:Dec 74:1316:10981
Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12:Dec 72:2191:9456
Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8:Aug 72:1427:9105
Temperature Loads, State-of-Art Report 6, Lin Y. Huang, TB:73:Ib-5-97
Temperature Prediction in Stratified Reservoirs, Wayne C. Huber, Donald R.F. Harleman and Patrick J. Ryan, HY4:Apr 72:645:8839
Temperature-Toxicity Model for Oil Refinery Waste, James H. Reynolds, E. Joe Middlebrooks and Donald B. Porcella, EE3:June 74:557:10580
Temperature Variations in Deep Reservoirs, Gerald T. Orlob and Lawrence G. Selna, HY2:Feb 70:391:7063
Thermal Discharge: A Model-Prototype Comparison, Peter D. Hindley, Russell M. Miner and Ramon F. Cayot, PO4:Dec 71:783:8580
Thermal Loading of Thin-Shell Concrete Cooling Towers, Richard D Larrabee, David P. Billington and John F. Abel, ST12:Dec 74:2367:11002
Thermal Movement Of Bridge Decks, Ganpat S. Pandit, TN: ST8:Aug 72:1899:9086
Thermal Stresses and Movements in Bridges, Joseph C. Reynolds and Jack H. Emanuel, ST1:Jan 74:63:10275
Time-Dependent Strength Behavior of Frozen Soils, Orlando B. Andersland and Ilham AlNouri, SM4:July 70:1249:7406
Transfer of Oxygen in Aqueous Solutions, Edwin L. Barnhart, SA3:June 69:645:6639
Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, PO2:Nov 73:349:10150
Transient Thermal Stresses in Rectangular Prism, John B. Cheung, Kuppusamy Thirumalai and Ta-Shen Chen, TN: EM2:Apr 74:463:10455
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
TVA Experience with Concrete Chimney Linings, Charles D. Durfee, PO2:Oct 69:193:6826
Velocity and Temperature in Buoyant Jet, Richard B. Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
Weather Effects on Mason Productivity, Clayford T. Grimm and Norman K. Wagner, CO3:Sept 74:319:10783
Winter-Regime Thermal Response of Heated Streams, Poothrikka P. Paily, Enzo O. Macagno and John F. Kennedy, HY4:Apr 74:531:10479

Temperature Control
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180
Edward Hyatt Powerplant Intake Structure, Paul H. Gilbert, PO1:Mar 69:110:6471

Temperature Distribution
Recirculation in Shallow Bays and Rivers, R. K. Price, Robert A. Dalrymple and Robert G. Dean, 12CEC:71:1813
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35

Temperature Gradients

Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683

Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569

Rapid Coastal Bottom Water Temperature Rises, Paul D. Higley and David O. Cook, EE4:Aug 74:955:10734

Stability of Water Cooled Columns, Atle Gjelsvik, EM4:Aug 71:1205:8335

Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475

Temporal Distribution

Ecological Importance Of Temporal Variations, David A. Bella, TN: SA4:Aug 72:685:9084

Tendons

Grouted Tendons for Nuclear Containment, Gunnar A. Harstead and Richard E. Kummerle, PO2:Oct 69:277:6852

Prefabricated Highways, William Zuk, TE2:May 72:387:8895

Testing Of Large Curved Prestressing Tendons, Gunnar A. Harstead, Richard E. Kummerle, John C. Archer and Mark M. Porat, PO2:Mar 71:475:7966

Tennessee

Air Pollution Patterns in an Urban Street Canyon, Frederick A. Brunner and Karl B. Schnelle, Jr., EE2:Apr 74:311:10447

Slides in Residual Soils From Shale and Limestone, Harold T. Whitney, George F. Sowers and B. Roger Carter, 4PCSM:71:II139

Tennessee Valley Authority

Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3:July 72:373:9029

Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221

Structure-Foundation Interaction of Nuclear Power Plant Structure During Earthquakes, R. Joe Hunt, SDNPF:Dec 73:119

TVA Dam Inspection Activities, Lloyd W. Lundin, IMROD:Sept 74:39

Tensile Properties

Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925

Tensile Strength

An Analysis of the Cracking at Duncan Dam, Zdenek Eisenstein, A. V.G. Krishnayya and Norbert R. Morgenstern, PES:72:I-765

Behavior of Compacted Soil in Tension, Abbanki V. Gopala Krishnayya, Zdenek Eisenstein and Norbert R. Morgenstern, GT9:Sept 74:1051:10828

Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909

Tensile Strength of Compacted Soils, Jagdish Narain, TN: SM6:Nov 70:2185:7646

Tensile Stress

Behavior of Compacted Soil in Tension, Abbanki V. Gopala Krishnayya, Zdenek Eisenstein and Norbert R. Morgenstern, GT9:Sept 74:1051:10828

The Relation of Mineralogy and Microstructure to the Morphology and Trajectory of Rock Fractures Resulting from Dynamic Tensile Stress -- Abstract, S. Sriruang and B. Hamil, RM14:73:750

Tensile and Compressive Cyclic Stresses in Rock -- Abstract, Bezalel C. Haimson, Chin Man Kim and T. M. Tharp, RM14:73:748

Tensiometers

Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243

Tension

Buckling Under Compressive and Tensile Load, Aron Zaslavsky, TN: ST10:Oct 70:2257:7572

Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380

Diagonal Tension Cracking in Concrete Beams with Axial Forces, Alan H. Mattock, ST9:Oct 69:1887:6776

Failure of Rock Under High Rate Tensile Loads, D. A. Shockey, C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709

Improved Framework Method for Plates in Extension, Alan L. Yettram and Vincent McKinnon, TN: EM5:Oct 74:1067:10856

Liquid Limit Values by Soil Moisture Tension, Eugene R. Russell and L. Jack Mickle, SM3:May 70:967:7298

Tensor Analysis

Analysis of Skew Plates with Shear Deformation Using Natural Coordinates, Yair Tene and Izhak Sheinman, EM2:Apr 74:235:10487

Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553

Tensors

Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554

Terminal Facilities

Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152

Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174

Balanced Highway-Airport Design, Henry K. Evans, TE1:Feb 69:213:6420

Basis for Simulation Model of Container Terminal, Fraser Dunford, TE3:Aug 72:607:9099

Design Criteria for Single-Point Mooring Terminals, J. M. Langeveld, WW4:Nov 74:305:10931

Design of Hamburg's New Airport Terminal, Joseph Treiterer, TE3:Aug 70:403:7483

Design of Pedestrian Facilities for the Washington Metro, Albert J. Roohr, MTI:May 72:159

Detroit Metropolitan Wayne County Airport, Lin Y. Huang, CE:July 70:55

Escalators in Rapid Transit Stations, Robert S. O'Neill, TE1:Feb 74:1:10333

Express Bus Mass Transit, Joseph Barnett, TE2:May 70:133:7256

GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shemsul A. Akhand, TE3:Aug 74:593:10717

Gate Arrival Terminal for Kansas City MCI Airport, Edwin Joe Runyan, TE2:May 69:229:6532

Illinois Central Suburban Automated Revenue Collection System, Leonard A. West, TE1:Feb 71:117:7872

Improving Airport Gate Usage with Critical Path, John P. Braaksma and John H. Shortreed, TE2:May 71:187:8090

Innovations in Barge Transportation on Columbia River, W. E. Torget and Rowena Funston, WW2:May 70:411:7290

Integrating the Airport into the Community Plan, Joseph A. Foster, TE2:May 69:279:6530

Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740

New Concepts in Rail-Bus Interchange, Joel P. Leisch, TE1:Feb 74:103:10328

Offshore Floating Terminals, Eugene H. Harlow, WW3:Aug 71:531:8295

Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928

Planning for Campus Traffic and Parking, Joseph W. Guyton and George L. Reed, TE1:Feb 71:63:7880

Planning Major Activity Center Distributor Systems, Michael J. Demetsky and Lester A. Hoel, TE1:Feb 74:237:10319

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Proposed Transportation and Visitor Center, Robert W. Harris, TE3:Aug 70:301:7459

Regional Approach to Port Development Planning, Howard J. Marsden, WW1:Feb 71:33:7896
Research Needs for Airport Terminal Planning, Richard de Neufville, Chmn., TE4:Nov 73:863:10153
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942
A Statement of National Highway Transportation Policy, by the Committee on Transportation Policy of the Tranportation Engineering Coordinating Committee, Harold W. Hansen, Chmn., TE3:Aug 69:399:6717
Tampa International Airport: Model for the Jumbo-Jet Age, George S. Jenkins, CE:Oct 71:68
Technology and Decisions in Airport Access, Robert F. Baker and Raymond M. Wilmotte, 1970, 152 pp.
Terminal Access and the Choice of Intercity Modes, Edward A. Beimborn, TE3:Aug 69:463:6731
Traffic and Service Characteristics of Pedestrians in Terminals, John J. Fruin, MTI:May 72:91
Transportation Research Needs in Civil Engineering, Robert F. Baker, TE3:Aug 71:541:8343
Use of Simulation in Airport Planning and Design, Dana E. Low, TE4:Nov 74:985:10954
V/STOL Concepts for Short Haul Air Transport, Bernard L. Fry and R. William DeDecker, TE3:Aug 71:411:8277

Terminal Facilities (Elect)
Environmental Factors in Passenger Terminal Design, John J. Fruin, TE1:Feb 72:89:8734

Terminal Velocity
Barge Transportation-Energizer of Production and Marketing, Braxton B. Carr, WW2:May 69:163:6559

Terminology
Corps of Engineers Studies of Shotcrete, Thomas J. Reading, SUSS:July 73:263
Definitions of Surveying and Associated Terms -- Manual and Report on Engineering Practice No. 34, 1972, 205 pp.
Glossary of Terms Pertaining to Structural Steel Engineering and Design, Roland R. Graham, Jr., Chmn., ST8:Aug 71:2137:8322
Subsurface Investigation for Design and Construction of Buildings: Part II, William F. Swiger, Chmn., SM6:June 72:557:8944
Subsurface Investigation for Design and Construction of Foundations of Buildings: Appendices A and B, William F. Swiger, Chmn., SM8:Aug 72:771:9103
Wave Heights Expressed in Engineering Terminology, Homer I. Sargeant and Richard C. Timme, WAVES:Sept 74:433

Terrain
Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127

Tertiary Treatment
Batch Adsorption Kinetics in Sewage--Activated Carbon, Jeffrey S. Hsieh, Raffi M. Turian and Chi Tien, SA4:Aug 71:505:8339
Instream Aeration: An Alternative to Advanced Waste Treatment, William Whipple, Jr., CE:Sept 70:78
Tertiary Treatment by Flocculation and Filtration, DeFro Tossey, Paul J. Fleming and Ronald F. Scott, SA1:Feb 70:75:7106

Terzaghi Lecture
The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
New Concepts in Consolidation and Settlement Analysis, John Lowe, III, GT6:June 74:571:10623
Observational Data on Ground Movements Related to Slope Instability, Stanley D. Wilson, SM5:Sept 70:1519:7508
Progressive Failure in Slopes of Overconsolidated Plastic Clay and Clay Shales, Laurits Bjerrum, SM5:Sept 67:1:5456

Utilization of Marginal Lands for Urban Development, Philip C. Rutledge, SM1:Jan 70:1:7000

Test Equipment
Accuracy of Field Deformation Measurements, James P. Gould and C. John Dunnicliff, 4PCSM:71:I313
A Direct-Reading Pocket Shear Vane, Stanley Serota and Anil Jangle, CE:Jan 72:73

Test Machines
A Simple Stiff Machine for Testing Rock in Compression, William Hustrulid and Franklin Robinson, RM14:73:61

Test Procedures
Analytical and Experimental Methods in Composite Mechanics, James M. Whitney, ST1:Jan 73:113:9477
Bactericidal Disinfectant Testing by Micromethods, Winfred F. Maline, Theodore F. Wetzler and Lloyd G. Herman, NSCD:71:307
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332

Test Results
Braced Excavations, T. William Lambe and Edmund K. Turner, LS:70:149

Tests
Analysis of Natural Roughness Profiles, Chesley J. Posey, TN: SM11:Nov 72:2065:9311
Analysis of Undrained Behavior of Loads on Clay, Richard M. Simon, John T. Christian and Charles C. Ladd, GT74:June 74:51
Arrested Wedge in Circular Tube, James J. Sharp and Chung-su Wang, TN: HY7:July 74:1085:10640
At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
Backwater Effect of Submerged Sills, Eric J. Schiller, TN: SM11:Nov 72:2059:9311
Bactericidal Disinfectant Testing by Micromethods, Winfred F. Maline, Theodore F. Wetzler and Lloyd G. Herman, NSCD:71:307
Bearing Capacity of Concrete Blocks, Wai F. Chen and Sergio Couarrubias, EM5:Oct 71:1413:8421
Bearing Capacity of Eccentrically Loaded Footings, Shamsher Prakash and Swami Saran, SM1:Jan 71:95:7814
Bearing Capacity of Footings in Plane Strain, Hon-Yim Ko and Luther W. Davidson, SM1:Jan 73:1:9496
Bearing Strength of Concrete--Geometric Variations, Sanat Kumar Niyogi, ST7:July 73:1471:9853
Bed Load Transportation in Alluvial Channels, Satya P. Garg, Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091
Behavior and Design of Shingle Joints, Edward H. Power and John W. Fisher, ST9:Sept 72:1923:9200
Behavior of Single Horizontally Curved Girder, Conrad P. Heins, Jr. and Kenneth R. Spates, ST7:July 70:1511:7420
Behavior of Unsymmetrical-Continuous Folded Plates, Karl C. Muhlbauer and Fred W. Beaufait, ST12:Dec 69:2783:6958
Biokinetic Evaluation of BOD Concepts and Data, William E. Gates and Sambhunath Ghosh, SA3:June 71:287:8184
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
British Column Design, Allan R. Gent, TB:73:II-16-545
Buckling of Partially Embedded Piles in Sand, Kenneth L. Lee, SM1:Jan 68:255:5754
Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB:Aug 73:141
Cavitation Parameters for Outlet Valves, W. Paul Winn and David E. Johnson, HY12:Dec 70:2519:7771

Comparison of Footing Vibration Tests with Theory, Frank E. Richart, Jr. and Robert V. Whitman, SM6:Nov 67:143:5568

Compression Fatigue of Fiber Reinforced Concrete, Melvin R. Ramey and Patrick J. McCabe, EM2: Apr 74:139:10469

Concrete Bearing Strength—Support, Mix, Size Effect, Sanat Kumar Niyogi, ST8:Aug 74:1685: 10765

Concrete-Polymer Composites for Underwater Applications, Lawrence E. Kukacka, Peter Colombo, Meyer Steinberg and Bernard Manowitz, CEO-II:70:969

Concrete Strain Capacity Tests -- Their Economic Implications, Donald L. Houghton, ECCD:72:75

Consolidation Under Constant Rates of Strain, Ronald E. Smith and Harvey E. Wahls, SM2:Mar 69:519:6452

Construction Practice for Hot-Mix Bituminous Pavements, Report of the Subcommittee on Construction of the ASCE Committee on Airfield Pavements, Henry Aaron, Chmn., AT1:Nov 68:31: 6251

Containment Structure For Trojan Nuclear Plant, Jacob K. Aldersebaes and Karl Wiedner, PO2:Mar 71:351:7957

Control of Quality-A System, Edward A. Abdun-Nur, CO2:Oct 70:119:7576

Corrosion Test of Steel Piling in Sea Water, Laverne L. Watkins, WW3:Aug 71:549:8292

Cyclic Stress-Strain Characteristics of Clay, Gerald R. Thiers and H. Bolton Seed, SM2:Mar 68:555: 5871

Data Reduction from Nonlinear Response Curves, Milos Novak, EM4:Aug 71:1187:8300

Deflection Analysis for Shakedown, Dale G. Eyre and Theodore V. Galambos, ST7:July 70:1359:7403

Deflection Stability of Beams under Repeated Loads, Yuhshi Fukumoto and Hiroshi Yoshida, ST7:July 69:1443:6668

Deformations of Geometrically Imperfect Beams, Nicholas S. Trahair, ST7:July 69:1475:6682

Design and Testing of Cone and Hypar Footings, Robert L. Nicholls and Mohammad V. Izadi, SM1: Jan 68:47:5732

Development of Large Scale Drip Irrigation Systems, Benjamin R. Olson, Jr., IR73:Aug 73:311

Dissipation of Wave Energy due to Opposing Current, Toshio Iwasaki and Michio Sato, CE13:72: I-605

Earthquake Loading Response, Theme Report, Kiyoshi Muto, TB:73:Ib-6-151

Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837

Eccentrically Loaded Bolted Connections, Sherwood F. Crawford and Geoffrey L. Kulak, ST3:Mar 71: 765:7956

Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5: May 72:989:8874

Effect Of Axial Flow On Preforated Pipe Outflow, Fred J. Molz and Reed A. Edwards, TN: HY4:Apr 72:747:8803

Effect of Creep in Slender Columns, Neil Jackson, TB:73:III-23-625

Effects of Loading Method on Triaxial Test Results, Raymond Lundgren, James K. Mitchell and James H. Wilson, SM2:Mar 68:407:5844

Elastic Stability of Continuous Beams, Nicholas S. Trahair, ST6:June 69:1295:6632

The Equivalent-Beam Approach in Tall Buildings Stability Analysis, Erol Yarimci, TB:73:II-16-553

Estimation of Sludge Centrifuge Performance, P. Aarne Vesilind, SA.3:June 70:805:7378

Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118

Evaluation of Fecal Streptococci Tests for Chlorinated Secondary Sewage Effluents, Shundar Lin, EE2:Apr 74:253:10452

Evaluation of Quick Test For Lime Stabilization, Marshall R. Thompson and James L. Eades, TN: SM2:Mar 70:795:7117

Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236

Experimental Study of Flexural-Torsional Buckling, Alois J. Hartmann, ST7:July 70:1481:7414

Experimental Study of Frictional Properties of Faults, Fred A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189

Experimental Verification of Discrete-element Solutions for Plates, Sohan L. Agarwal and William Ronald Hudson, TN: ST8:Aug 71:2159:8275

Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851

Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739: 9409

Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7: July 73:1439:9854

Fatigue Characteristics of Selected Plastics, Harry J. Duffey, Chmn., ST7:July 70:1567:7429

Fatigue of A514 Steel in Bolted Connections, Peter C. Birkemoe, Donald F. Meinheit and William H. Munse, ST10:Oct 69:2011:6811

Fatigue of Bolted High Strength Structural Steel, Peter C. Birkemoe and Ramachandran Srinivasan, ST3:Mar 71:935:7997

Fatigue of Cover Plated Beams Under Varying Loads, Francis A. Murad and Conrad P. Heins, Jr., ST4:Apr 72:915:8855

Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823

Fatigue Strength of Rolled and Welded Steel, Manfred A. Hirt, Ben T. Yen and John W. Fisher, ST7:July 71:1897:8238

Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, George G. Goble, William D. Kovacs and Frank Rausche, PES:73:III-3

Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839

Filter Backwashing Tests and Upflow Equalization, A. Adler Hirsch, SA1:Feb 68:129:5813

Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB: 73:Ib-8-475

Flexural Behavior Of Ferro-Cement Panels, Wen F. Chang, D. W. Gibson and N. R. Gibbons, CEO-II: 70:1023

Fluid-Dynamic Consideration Of Bottom Materials, Hormoz Pazwash and James M. Robertson, CEO-II:70:1135

Flume Experiments On Flow In Mobile Bed Channels, Richard H. Cooper and Allan W. Peterson, TN: HY10:Oct 70:2167:7575

Guide for the Design of Aluminum Formed-Sheet Building Sheathing, Robert B.B. Moorman, Chmn, ST8:Aug 69:1727:6744

Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061

Human Perception Thresholds of Horizontal Motion, Peter W. Chen and Leslie E. Robertson, ST8:Aug 72:1681:9142

Hydraulic Model Experiment On Waste Diffusion In Tokyo Bay, Tonia Eemura, Masamitsu Onitsuka, Hiroshi Fukao and Fumio Yamaguchi, CEO-II:70: 247

Indirect Method of SO_2 Determination from Combustion, Thomas T. Shen, TN: EE3:June 74: 795:10571

Inelastic Bar Subjected To Thrust and Cyclic Bending, Ben Kato and Hiroshi Akiyama, ST1:Jan 69:33:6335

Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062

Inflection Point Method for Computing Cv, Francis R. Cour, TN: SM5:May 71:827:8087

In-Situ Determination Of Seafloor Bearing Capacity, T. R. Kretschmer and H. J. Lee, CEO-II:70:679

In Situ Investigations Of Ocean Sediments, Lloyd Lewis, Vito A. Nacci and James Gallagher, CEO-II:70:641
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Interaction Of A River With The Coast: Laboratory Simulation, Omar H. Shemdin, CEO-II:70:763
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345
Intersecting Titanium Spheres for Deep Submersibles, George F. Leon, EM3:June 71:981:8219
Introduction — Foundations of Dams, Richard D. Harza, EFFD:Mar 74:1
Investigation of Earth Dam Foundations, John P. Bara, EFSE:Aug 74:381
Investigation of Spherical Shell Foundation, A. K. Sharma, TN: SM6:June 73:489:9815
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107
Large Deflection of Shallow Paraboloid Shells, Neng-Ming Wang, Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929
Large Diameter Pipe Under Combined Loading, Jack G. Bouwkamp and R. M. Stephen, TE3:Aug 73:521:9907
Long-Chain Alcohol Suppression of Snow Evaporation, James R. Meiman and Charles W. Slaughter, HY6:Nov 67:271:5598
Measurements of Turbulence in Water at High Velocity, Stephen C. Ko, TN: HY12:Dec 72:2253:9397
Minor Principal Stress Measurements in Marine Clay with Hydraulic Fracture Tests, Michael Bozozuk, EFSE:Aug 74:333
Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299
New Considerations and Experimental Data on Plastic Pipes, Praxitelis A. Argyropoulos, TN: TE2:May 73:431:9688
New Design Criteria for USBR Penstocks, Harold G. Arthur and John J. Walker, PO1:Jan 70:129:7034
New Developments in In-Place Testing of Shotcrete, Todd E. Rutenbeck, SUSS:July 73:246
Newport Bridge Superstructure, Alfred Hedefine and Louis G. Silano, ST11:Nov 71:2653:8533
Nonlinear Flow Through Granular Media, David Ellis Wright, HY3:July 68:851:6018
Ocean Sediment Holding Strength Against Breakout Of Partially Imbedded Objects, Cheng L. Liu, CEO-II:70:105
Particle Size Distribution of Soils, J. Macneil Turnbull, TN: SM6:Nov 70:2171:7646
Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73:485:10179
Plastic Behavior of Hollow Structural Sections, Robert M. Korol and John Hudoba, ST5:May 72:1007:8872
Pore Pressure in Saturated Stiff Soils, Anwar E.Z. Wissa, SM4:July 69:1063:6670
Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941
Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077
Predicting Effective Stress Paths, James P. Olson and Harvey E. Wahls, TN: SM8:Aug 71:1139:8307
Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489
Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906
Problems Associated with Planning BOD Experiments, Paul M. Berthouex and William G. Hunter, SA3:June 71:333:8202
Procurement and Analysis of Structural Fatigue Data, Harold S. Reemsnyder, ST7:July 69:1533:6693
Propagation Of Waves Generated By Underwater Explosion, James Chi-dian Go, CEO-II:70:1149
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2:June 72:275:8964
Quick Quality Testing of Concrete, Peter Smith, CE:Aug 70:52
Reaeration Experiments with Microorganisms, Thomas Micka, Edward R. Holley and Frank W. Sollo, TN: EE6:Dec 73:971:10186
Recent Concrete Developments in the Corps of Engineers, John W. Morris, ECCD:72:15
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
Residual Stresses in Rock, J. E. Russel and E. R. Hoskins, RM14:73:1
Salt Penetration Technique for Seepage Measurement, Herman Bouwer and R. C. Rice, IR4:Dec 68:481:6304
Sand Movement Measurement Near Anchor Plates, Robert W. Carr and Thomas H. Hanna, TN: SM5:May 71:833:8087
Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: F. Laboratory Procedures, Task Committee on Preparation of the Sedimentation Manual, Vito A. Vanoni, HY5:Sept 69:1515:6757
Seismic Resistance of Concrete Frames with Grade 60 Reinforcement, Norman W. Hanson, ST6:June 71:1685:8180
Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876
Shear Strength of Large Beams, Howard P.J. Taylor, ST11:Nov 72:2473:9329
The Significance of Cap and Base Restraint, James M. Duncan and Peter Dunlop, SM1:Jan 68:271:5768
Skin Friction For Steel Piles in Sand, Harry M. Coyle and Ibrahim H. Sulaiman, SM6:Nov 67:261:5590
Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729:8544
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405:10169
Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817
Statistical Experimental Design: BOD Tests, Paul M. Berthouex and William G. Hunter, SA4:Aug 71:393:8286
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289
Status of Pilot Watershed Studies in Arizona, Harry E. Brown, IR1:Mar 70:11:7129
Strengthening Rock by Injection of Chemical Grout, Herbert B. Erickson, SM1:Jan 68:159:5744
Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909
Stresses Against Underground Structural Cylinders, Kaare Hoeg, SM4:July 68:833:6022
Studies Of Seismic Response Of Clay Banku, William D. Kovacs, H. Bolton Seed and Izzat M. Idriss, SM2:Feb 71:441:7878
Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25
Subsurface Investigation for Design and Construction of Buildings: Part II, William F. Swiger, Chmn., SM6:June 72:557:8944
Summary Report of Questionnaire on Construction Inspection, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192
Surface Loading in Open-Top Tanks, James F. Marchman, III, TN: ST11:Nov 70:2551:7690
Sustained and Cyclic Loading of Concrete Columns, Jostein Hellesland and Roger Green, ST4:Apr 71:1113:8033
Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213
Temperature Effect on Shear Wave Velocity in Clays, Donald G. Anderson and Frank E. Richart, Jr., TN: GT12:Dec 74:1316:10981

Testing of Anisotropic Clay Soils, Adel S. Saada, TN: SM5:Sept 70:1847:7502

Testing Of Large Curved Prestressing Tendons, Gunnar A. Harstead, Richard E. Kummerle, John C. Archer and Mark M. Porat, PO2:Mar 71:475: 7966

Test Method for Seismic Qualification of Equipment, Michael de Estrada, PO1:July 74:97:10656

Tests of a Modified Reinforced Concrete Two-Way Slab, M. Daniel Vanderbilt, Mete A. Sozen and Chester P. Siess, ST6:June 69:1097:6587

Tests of a Two-Way Reinforced Concrete Floor Slab, William L. Gamble, Mete A. Sozen and Chester P. Siess, ST6:June 69:1073:6586

Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867

Tests of Reinforced Concrete Flat Plate Floors, E. Ramzy F. Zaghlool, H A. Rawdon de Paiva and Peter G Glockner, ST3:Mar 70:487:7147

Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72: 611:8791

Tests on Cohesionless Materials for Rockfill Dams, Emanuele Fumagalli, SM1:Jan 69:313:6353

Thermal Behavior of a 1000 Foot Steel Chimney Liner, Joseph W. Fortey and Raymond R. Funk, EPCE:Aug 74:161

Thickness Effects on Creep, Giorgio Macchi, TB:73: III-25-829

Three-Dimensional Inelastic Subassemblage Design, John F. Lott, Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1445:8108

Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239

Time Dependent Behavior of Concrete Beams, John D. Mozer, Kurt H. Gerstle and Leonard G. Tulin, ST3:Mar 70:597:7157

Time Dependent Deformation of Normally Consolidated Clays and Peats, Laing Barden, SM1: Jan 69:1:6337

Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728

Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209

Transient Thermal Stresses in Rectangular Prism, John B. Cheung, Kuppusamy Thirumalai and Ta-Shen Chen, TN: EM2:Apr 74:463:10455

Trial Load Analyses Confirm Arch Dam Model Tests, Archie A. Stone and Gurmukh S. Sarkaria, PO2:Oct 67:37:5503

Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475

Turbulence in the Weakly Mixing Zone of the Interface, Toshio Iwasaki and Tetsuo Abe, ISSF: Aug 72:251

Ultimate Load Tests on Braced Multistory Frames, Joseph A. Yura and Le-Wu Lu, ST10:Oct 69:2243: 6840

Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134

Undrained Strength Characteristics of Cohesionless Soils, H. Bolton Seed and Kenneth L. Lee, SM6: Nov 67:333:5618

Use of the Finite Element Method in Analysis of Soil-Structure Interaction, James M. Duncan, PES: 73:III-265

Validity Of Two-Point Method Of Velocity Sampling, Robert P. Apmann, TN: HY10:Oct 70:2171:7575

Vibration of Conical Shells Subjected to Torsion, Victor I. Weingarten, EM1:Feb 68:47:5783

Vibration of Heavy Industrial Slabs, James H. Woodward and Claudie K. McDonald, TN: ST8: Aug 73:1797:9911

Vibration of Noncircular Foundations, Yong S. Chae, SM6:Nov 69:1411:6918

Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219

Virtual Mass Of Cylinders In Water, Frederic T. Mavis, TN: HY1:Jan 72:319:8617

Welded Connections under Combined Shear and Moment, John L. Dawe and Geoffrey L. Kulak, ST4:Apr 74:727:10457

What's Ahead in Subsurface Exploration (Closing Remarks), Madan M. Singh, EFSE:Aug 74:387

Wind Tunnel Test Expectations, W. H. Melbourne, TB:73:Ib-7-441

Yield Points For Partially Loaded Spherical Domes, John Schroeder and Prasanta Roy, EM1:Feb 71:63: 7888

81-ft Model of Prestressed Bridge, CE:Oct 72:83

Texas

Airports -- Challenges of the Future, Raymond J. Hodge, Chmn., ASC73:73, 213pp.

Analysis of Hurricane Tides at Padre Island, Texas, Frank D. Masch, Robert J. Brandes, Floyd R. Hill and William A. White, 12CEC:71:2031

Biking and Hiking Through Red Tape, Margret M. Rimmer, BP73:Dec 73:9

Centralized Treatment of Industrial Wastewaters, Charles A. Monaghan and Don Simmons, CE:June 73:85

Character and Stability of a Natural Tidal Inlet, Curtis Mason and Robert M. Sorensen, CE13:72:II-781

Dallas/Fort Worth's AIRTRANS: model for future PRT systems, Dennis M. Elliott, CE:July 74:70

Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165

Experience and Problems with Dams in Texas, John R. Clarke, IMROD:Sept 73:105

A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74

First Segmental Bridge in U.S., Wayne Henneberger and John E. Breen, CE:June 74:54

Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45

Highway Access for Dallas-Fort Worth Airport, Billy R. Rogers, ASC73:Mar 73:95

Hurricane Barrier Environmental Planning in Texas, Sidney H. Tanner and Edward J. Pullen, WW4:Nov 73:459:10171

In-Home Shelters from Extreme Winds, Ernst W. Kiesling and David E. Goolsby, CE:Sept 74:105

Internal Piping and Shear Deformation. Victor Braunig Dam -- San Antonio, Texas, Ralph F. Reuss and John W. Schattenberg, PES:72:I-627

Irrigation Timing to Maximize Economic Crop Yields, Dan Salcedo and W. L. Meier, Jr., OIDS: 72:81

Land Use Planning, Henry L. Newman, ASC73:Mar 73:87

A Least-Cost Analysis For The Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, CEO-II:70:269

Mississippi River Water for Texas?, Ottoniel Arguello and Raphael G. Kazmann, IR4:Dec 73:441:10212

New Construction Equipment and Techniques, Bruce B. Cloud, ASC73:Mar 73:181

One Shell Plaza, Skidmore, Owings & Merrill, TB: 73:C-P-488

Optimal Utilization of Playa Water in Irrigation, Marvin J. Dvoracek and Theodore G. Roefs, OIDS: 72:597

Optimal Water Quality Management for Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, SA1:Feb 72:195:8715

Predicting Reaeration Coefficients for Polluted Estuary, Gary R. Kramer, EE1:Feb 74:77:10351

San Antonio: Classic "Stop the Freeway" Case, Virginia Fairweather, CE:July 73:59

Seepage Through Soil-Cement Facings, Glenn DeGroot, PES:72:I-751

Urban Flood Frequency Characteristics, William H. Espey, Jr. and David E. Winslow, HY2:Feb 74:279: 10352

Weed Control in Arid Southwest, James W. Kirby and A. Darrell Summers, IR4:Dec 71:571:8570

Why Regional Airports, Jack D. Downey, ASC73: Mar 73:153

2001 Bryan Street Tower, Neuhaus & Taylor, TB:73: C-P-282

Thailand

Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
Load Tests on Small Foundations in Soft Clay, Edward W. Brand, Chai Muktabhant and Anan Taechathummarak, PES:72:I-903
Pore Pressures Under a Bund of Soft Fissured Clay, Za-Chieh Moh, Edward W. Brand and John D. Nelson, PES:72:I-243
Sector Gates in Bangkok Klong System, Fred C. Stepanich, WW4:Nov 71:721:8549
Test Fills to Failure on the Soft Bangkok Clay, Ove Eide and Soren Holmberg, PES:72:I-159

Thawing

Finite Element Permafrost Thaw Settlement Model, Jon F. Sykes, William C. Lennox and Robin G. Charlwood, GT11:Nov 74:1185:10957
Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090
Two-Dimensional Heated Pipeline in Permafrost, Jon F. Sykes, William C. Lennox and Tharakkal E. Unny, GT11:Nov 74:1203:10956

Theories

The State Of The Art of Planning, William S. Pollard, Jr. and Daniel W. Moore, UP1:Apr 69:27:6517

Theory

Buckling of Light-Gage Corrugated Metal Shear Diaphragms, John T. Easley and David E. McFarland, ST7:July 69:1497:6683
Effect of Period of Record on Flood Prediction, Peter Victorov, HY11:Nov 71:1853:8525
Steady Drainage of Layered Soils: 1, Theory, Sadik Toksoz and Don Kirkham, IR1:Mar 71:1:7985
A Theoretical Assessment of the SPT, Edward A. Nowatzki, 4PCSM:71:II45

Thermal Analysis

Thermal Movement Of Bridge Decks, Ganpat S. Pandit, TN: ST8:Aug 72:1899:9086

Thermal Conductivity

Effect of Coating on Thermal Conductivity of Pipes, P. Mahmoodi, TE1:Feb 70:71:7102
Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498
Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603:9191

Thermal Degradation

A Study on a New Concept of Thermal Hard Rock Crushing, Kuppusamy Thirumalai and John B. Cheung, RM14:73:527

Thermal Diffusion

Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145

Thermal Diffusivity

Dispersivity Tensor for Uniform Channel Flow, Gedeon Dagan, HY5:Sept 69:1699:6794

Thermal Energy

Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623

Thermal Fatigue

Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4:Aug 73:479:9943

Thermal Gradient

Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673
Sun Shading, Shadows and Effects on Traffic, John S. Gero, TB:73:Ia-1-259

Thermal Insulation

Arctic Hangar for Minus 60 Deg F, Ralph Kratz, CE:May 71:72
Designing Energy-Conserving Buildings, Eugene E. Dallaire, CE:Apr 74:54

Thermal Pollution

Analyzing Steam Electric Power Plant Discharges, John Eric Edinger and John C. Geyer, SA4:Aug 68:611:6064
Data Retrieval on Thermal Pollution, Fred A. Limpert, CE:Nov 70:53
Dispersivity Tensor for Uniform Channel Flow, Gedeon Dagan, HY5:Sept 69:1699:6794
The Dissipation of Excess Heat from Water Systems, Harvey E. Jobson, PO1:May 73:089:9702
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
Effects of Forest Management on Stream Temperature, George W. Brown, IAWM:72:93
Environmental Impact of Wastewater Discharges, E. R. Hendrickson and J. B. Koogler, SEA:70:91
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
Generalized Stream Temperature Analysis System, Daniel P. Bauer, Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167
Heated Water Jet in Coflowing Turbulent Stream, Mostafa A. Shirazi, Raul S. McQuivey and Thomas N. Keefer, HY7:July 74:919:10661
Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2:Oct 72:253:9241
Information Sources on Water Quality, Including Thermal Pollution, Fred A. Limpert, Chmn., SA3:June 72:569:8987
Internal Hydraulics of Thermal Discharge Diffusers, Svein Vigander, Rex A. Elder and Norman H. Brooks, HY2:Feb 70:509:7085
Legal Aspects of Thermal Discharges, Angel J. Martin, HY7:July 74:1059:10682
Dsc, Level of Thermal discharge, Eugene T. Jensen, CE:July 72:65
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
Power Plant Cooling Water Discharge in Streams, Liang-Tseng Fan, Jie-Tsai Tseng and Ching Hwang, PO4:Dec 71:841:8595
Recirculation in Shallow Bays and Rivers, R. K. Price, Robert A. Dalrymple and Robert G. Dean, 12CEC:71:1813
Shape Factors for Cooling Lakes, John Eric Edinger, PO4:Dec 71:861:8616
Swirling Shallow Submerged Turbulent Plumes, Jai P. Narain, HY9:Sept 74:1229:10820
Thermal Capacity of Our Nation's Waterways, D. E. Peterson, John C. Sonnichsen, Jr., S. L. Engstrom and P. M. Schrotke, PO1:May 73:193:9736
Thermal Discharge: A Model-Prototype Comparison, Peter D. Hindley, Russell M. Miner and Ramon F. Cayot, PO4:Dec 71:783:8580
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145
Thermal-Pollution Threat Draws Nearer, Eugene E. Dallaire, CE:Oct 70:67
Thermal power plants: Key problems, trends, Eugene E. Dallaire, CE:Dec 74:35
Two-Dimensional Surface Warm Jets, Robert C. Y. Koh, HY6:June 71:819:8186
Waste Heat Disposal from Power Generating Stations, F. Stewart Brown, PO3:June 70:277:7317
Winter-Regime Thermal Response of Heated Streams, Poothrikka P. Paily, Enzo O. Macagno and John F. Kennedy, HY4:Apr 74:531:10479

Thermal Power Plants
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Model Versus Field Data on Thermal Plumes from Power Stations, Lawrence C. Neale and George E. Hecker, ISSF:Aug 72:399
New Approach to Site Selection Studies, W. Ray Seiple, PO1:July 74:63:10643
Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF: Aug 72:371
Prediction of Power Plant Emission Impacts, Michael D. Williams and Eric G. Walther, EPCE:Aug 74: 601
Response of Suspended Boilers to Earthquake Motions, James C. Anderson, Ramachandran Srinivasan and Robert J. Small, EPCE:Aug 74:363
Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145
Thermal Power Plant Environmental Studies, M. J. Doyle, Jr. and Ramon F. Cayot, CE13:72:III-2075
Thermal power plants: Key problems, trends, Eugene E. Dallaire, CE:Dec 74:35

Thermal Properties
Thermal Behavior of a 1000 Foot Steel Chimney Liner, Joseph W. Fortey and Raymond R. Funk, EPCE:Aug 74:161

Thermal Radiation
Depth to Ground-Water Table by Remote Sensing, Mohamed Abdel-Hady and Harlan H. Karbs, IR3: Sept 71:355:8360
Design Parameters for Thermal Shock Problems, Tauchao C. Fan, ST2:Feb 70:309:7088

Thermal Resistance
Transmission Lines Probe a New Frontier, The Ocean, Ian Watson, Joseph A. Fischer and Lawrence A. Salomone, EPCE:Aug 74:557

Thermal Shock
Design Parameters for Thermal Shock Problems, Tauchao C. Fan, ST2:Feb 70:309:7088
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
A Study on a New Concept of Thermal Hard Rock Crushing, Kuppusamy Thirumalai and John B. Cheung, RM14:73:527
Thermal Fracturing of Hard Crystalline Rock -- Abstract, P. J. Lauriello, RM14:73:751

Thermal Stability
In-place Treatment of Foundation Soils, James K. Mitchell, SM1:Jan 70:73:7035
In-Place Treatment of Foundation Soils, James K. Mitchell, PISST:71:93

Thermal Stratification
Effects of Reservoir Impoundment on Water Quality, Frank H. Posey, Jr. and Joseph W. DeWitt, PO1: Jan 70:173:7041
Impoundment and Temperature Effect on Waste Assimilation, Peter A. Krenkel, Edward L. Thackston and Frank L. Parker, SA1:Feb 69:37: 6406
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Model Versus Field Data on Thermal Plumes from Power Stations, Lawrence C. Neale and George E. Hecker, ISSF:Aug 72:399
Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65: 8984
Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5: May 73:729:9730
Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451
Temperature Prediction in Stratified Reservoirs, Wayne C. Huber, Donald R.F. Harleman and Patrick J. Ryan, HY4:Apr 72:645:8839
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35
Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, Yoshiaki Iwasa and Kazuya Inoue, ISSF:Aug 72: 237
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433

Thermal Stress
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
Transient Thermal Stresses in Rectangular Prism, John B. Cheung, Kuppusamy Thirumalai and Ta-Shen Chen, TN: EM2:Apr 74:463:10455

Thermal Stresses
Thermal Buckling of a Bimetallic Beam, David Burgreen and Phillip J. Manitt, EM2:Apr 69:421: 6509
Thermal Stresses and Movements in Bridges, Joseph C. Reynolds and Jack H. Emanuel, ST1:Jan 74:63: 10275
Thermal Stresses in Multilayer Anisotropic Shells, Tung D. Lin and Donald E. Boyd, EM3:June 71: 829:8206
Thermoviscoelasticity of Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM3:June 74:575: 10621

Thermoclines
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Examination of the Thermocline, John C. Sonnichsen, Jr. and Clarence A. Oster, SA2:Apr 70:353:7219
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627

Thermoelasticity
Design Parameters for Thermal Shock Problems, Tauchao C. Fan, ST2:Feb 70:309:7088

Thermoelectric Generators
Civil Engineering Features of Geothermal Power Plant, Simon Peters, PO2:Dec 74:157:11000

Thermoelectric Power Generation
Analyzing Steam Electric Power Plant Discharges, John Eric Edinger and John C. Geyer, SA4:Aug 68:611:6064
Aquatic Ecosystems and Thermal Power Plants, Loren D. Jensen and Derek K. Brady, PO1:Jan 71: 209:7802
Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
Cooling Water Structures for FitzPatrick Nuclear Plant, Ralph W. Gunwaldsen, Bruno Brodfeld and George E. Hecker, PO4:Dec 71:767:8572
Cooling Water Studies at Electric Power Station, R. Fred Gray and J. Ben Stephenson, PO2:Oct 69:293: 6853
Cost of Thermal Effluent Standards for Power Plants, Leonard Ortolano and Frank A. Smith, PO1:July 74:15:10649

Effect of Stream Turbulence on Heated Water Plumes, James Weil and Hugo B. Fischer, HY7:July 74:951:10674

Heated Surface Jets in a Steady Crosscurrent, Robert W. Zeller, John A. Hoopes and Gerard A. Rohlich, HY9:Sept 71:1403:8385

Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, HY11:Nov 72:1983:9372

Legal Aspects of Thermal Discharges, Angel J. Martin, HY7:July 74:1059:10682

Positive Points on Electric Power, George R. Higgins, PP1:Jan 72:65:8666

Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231

Shape Factors for Cooling Lakes, John Eric Edinger, PO4:Dec 71:861:8616

Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669

Thermal Capacity of Our Nation's Waterways, D. E. Peterson, John C. Sonnichsen, Jr., S. L. Engstrom and P. M. Schrotke, PO1:May 73:193:9736

Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, PO2:Nov 73:349:10150

TVA's Air Quality Management Program, Fred W. Thomas, PO1:Mar 69:131:6483

Thermoluminescence

Strain Energy Build-Up in Fatigue Cycling, Gabrielle Douglas and David J. McDougall, RM14:73:121

"TL" A New Approach to Stress Distribution in Rocks, Gabrielle Douglas, RM13:72:717

Thermoplastic Recording

Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554

Thermoplastic Resins

California Seals Salt-Damaged Bridge Decks, Robert L. Boulware and Arthur L. Elliott, CE:Oct 71:42

Thesauri

Technical Information Retrieval, Harold W. Conner and J. Nieves, CE:Nov 69:47

Thickness

Structural Design of Concrete Pavement by Computer, Cloyd E. Warnes, TE1:Feb 72:1:8698

Thickness Effects on Creep, Giorgio Macchi, TB:73:III-25-829

Thick Rectangular Beams, Kashi T. Sundara Raja Iyengar, Chuen-Yuan Chandrashekhara and V. K. Sebastian, TN: EM6:Dec 74:1277:10979

Thickness Ratio

Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348

Large Deflection of Shallow Paraboloid Shells, Neng-Ming Wang, Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929

Numerical Solution of Moderately Thick Plates, Rajabhau S. Deshmukh and Robert R. Archer, EM5:Oct 74:903:10860

Thin Plates

Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359

Thin Shell Structures

Analysis of Hipped Roof Hyperbolic Paraboloid Structures, William C. Schnobrich, ST7:July 72:1575:9052

Development of Response Spectra for a Thin Shell Structure, D. R. Denton, Chung-Tung Shen and C. K. Webster, SDNPF:Dec 73:571

Finite Element Analysis of Thick Shell of Revolution, T. J. Chung and Martin A. Bandy, TN: EM4:Aug 71:1315:8273

Large Deflection of Axisymmetric Shell with Creep Strain, Sehng-Rong Lin, Tung-Hua Lin and Bernard Mazelsky, EM1:Feb 74:79:10368

Thermal Loading of Thin-Shell Concrete Cooling Towers, Richard D Larrabee, David P. Billington and John F. Abel, ST12:Dec 74:2367:11002

Use of Thin Shells for Tall Buildings, Jacques Nasser, TB:73:Ia-3-643

Thin Wall Pipes

Kelvin's Solution of Torsion Problem, Egor P. Popov, EM6:Dec 70:1005:7734

Thin-Wall Structures

Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409

Initial Buckling of Channels in Compression, William H. Wittrick and Frederic W. Williams, EM3:June 71:711:8177

Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247

Simplified Theory of Thin Cylendrical Shells, Yung-shih Wang, Peter C.Y. Lee and David P. Billington, EM4:Aug 74:719:10720

Thixotropy

Thixotropic Behavior of Compacted Clays, Donald H. Gray and Nouri A. Kashmeeri, SM1:Jan 71:193:7857

Three-Dimensional

Three-Dimensional Analysis of Shear Wall Buildings to Lateral Load, Jayanta K. Biswas and Wai K. Tso, ST5:May 74:1019:10537

Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, Miguel Carlos Stamato, TB:73:III-24-683

Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193

Throttling

Oscillations in Surge Tanks, Mohammad Akram Gill, HY10:Oct 74:1369:10891

Thunderstorms

Applications Programs of Hail Suppression, Thomas J. Henderson, OIDS:72:403

Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7:July 73:1129:9871

Weather Modification for Alaska Fire Control, James W. Franks, OIDS:72:423

Tidal Currents

Analysis Techniques for Houston Ship Channel, Roy W. Hann, Jr., WW2:May 70:171:7258

Case History of Mission Bay Inlet, San Diego, California, William J. Herron, Jr., CE13:72:II-801

Characteristics and Behavior of Pacific Coast Tidal Inlets, Joe W. Johnson, WW3:Aug 73:325:9927

Currents in an Interoceanic Canal, Edwin W. Eden, Jr., HY1:Jan 69:79:6342

Deformation of Rotational Tidal Currents in Shallow Coastal Water, Harald Gohren, 12CEC:71:2147

The Measurement of Tidal Water Transport in Channels, R. E. Klein, 12CEC:71:1887

Natural Flushing Ability in Tidal Inlets, I. B. Mota Oliveira, 12CEC:71:1827

New Developments in the Field of Tidal Hydraulics, Joseph M. Caldwell, HY1:Jan 69:1:6339

Offset Coastal Inlets, Miles O. Hayes, Victor Goldsmith and Carl H. Hobbs, III, 12CEC:71:1187

Oil Booms in Tidal Currents, Ralph H. Cross, III and David P. Hoult, 12CEC:71:1745

Oil Booms in Tidal Currents, Ralph H. Cross, III and David P. Hoult, WW1:Feb 72:25:8719

Sediment Transport in a Tidal Inlet, John R. Ritter, CE13:72:II-823

Studies on the Navigation Buoy for Strong Tidal Currents and Large Waves, Shoshichiro Nagai, Kazuki Oda and Katsuhiko Kurata, CE13:72:III-1743

Tidal Flow in Exponentially Varying Estuaries, Wen-Hsiung Li and Michael Edwin Kozlowski, HY11: Nov 74:1649:10967
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285

Tidal Effects
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
A Marine Environmental Survey In The Bay of Fundy, Jack K. Tuttle and Robert L. McCollom, CEO-II:70:805
Rapid Discharge Measurement In Tidal Inlets, Bent A. Christensen and H. E. Walker, CEO-II:70:743
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122
Tidal Inlet Problems Along the New England Coast, Oscar E. Arpin, 12CEC:71:1171

Tidal Energy
Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
A Marine Environmental Survey In The Bay of Fundy, Jack K. Tuttle and Robert L. McCollom, CEO-II:70:805
Tidal Motion in Bays, Omar H. Shemdin and R. M. Forney, 12CEC:71:2225
Tsunami Generation and Propagation, Joseph L. Hammack, Jr. and Fredric Raichlen, CE13:72:III-2577

Tidal Marshes
Land Reclamation and Groin-building in the Tidal Flats, Heie Focken Erchinger, 12CEC:71:1041
Mathematical Model of Mixing in New Haven Harbor, Michael D. Disko, Robert A. Norris and Francis C. Lutz, 12CEC:71:1847

Tidal Power Generation
Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
A Marine Environmental Survey In The Bay of Fundy, Jack K. Tuttle and Robert L. McCollom, CEO-II:70:805
Tidal Energy from the Bay of Fundy, Thomas L. Shaw and J. van den Heuvel, CE:Dec 72:40

Tidal Power Plants
A Marine Environmental Survey In The Bay of Fundy, Jack K. Tuttle and Robert L. McCollom, CEO-II:70:805
Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297
Tidal Energy from the Bay of Fundy, Thomas L. Shaw and J. van den Heuvel, CE:Dec 72:40

Tidal Waters
Analytical Modeling of Estuarine Circulation, John S. Fisher, John D. Ditmars and Donald R.F. Harleman, CE13:72:III-2297
Case History of Mission Bay Inlet, San Diego, California, William J. Herron, Jr., CE13:72:II-801
Character and Stability of a Natural Tidal Inlet, Curtis Mason and Robert M. Sorensen, CE13:72:II-781
Characteristics and Behavior of Pacific Coast Tidal Inlets, Joe W. Johnson, WW3:Aug 73:325:9927
Computer Control and Data Acquisition of a Tidal Model, E. R. Funke, CE13:72:III-2387
Computer Studies of Estuary Water Quality, Donald O. Hodgins and Michael C. Quick, CE13:72:III-2317
Deformation of Tidal Waves in Shallow Estuaries, Calude Marche and Hans-Werner Partenscky, CE13:72:III-2395
DO-Sag in Oscillating Flow, Wen-Hsiung Li and Michael Edwin Kozlowski, EE4:Aug 74:837:10713
Elbe Tidal Model with Movable Bed, Hans Vollmers and Egon Giese, CE13:72:III-2447
Experiences with Tidal Salinity Model Europoort, A. J. van Rees, P. van der Kuur and H. J. Stroband, CE13:72:III-2345
Field and Laboratory Studies: Navigation Channels of the Columbia River Estuary, Morrough P. O'Brien, CE13:72:III-2465
Flushing Characteristics of Small-Boat Marinas, Ronald E. Nece and Eugene P. Richey, CE13:72:III-2489
Hydraulics and Thermal Dispersion in an Irregular Estuary, Ralph R. Boericke and Darryl W. Hall, HY1:Jan 74:85:10282
A Marine Environmental Survey In The Bay of Fundy, Jack K. Tuttle and Robert L. McCollom, CEO-II:70:805
Mathematical and Hydraulic Models of Tidal Waves, Jurgen Sundermann and Hans Vollmers, CE13:72:III-2413
A Mathematical Model for Salinity Intrusion, A. Y. Kuo and Ching S. Fang, CE13:72:III-2265
Minimum Length of Salt Intrusion in Estuaries, Ben P. Rigter, HY9:Sept 73:1475:10010
Natural Flushing Ability in Tidal Inlets, I. B. Mota Oliveira, 12CEC:71:1827
Nearshore Currents Southeastern Strait of Georgia, M. L. Schwartz, R. C. Fackler, E. A. Hoerauf, C. E. Larsen, K. L. Lingbloom and M. A. Short, CE13:72:III-2503
A Numerical Model of the St. Lawrence River, David Prandle, CE13:72:III-2281
Rapid Discharge Measurement In Tidal Inlets, Bent A. Christensen and H. E. Walker, CEO-II:70:743
Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952
Reproduction of Physical Processes in Coastal Areas, Hans-Gerhard Ramming, CE13:72:III-2197
Sand Transport During Closure of Tidal Channels, J. N. Svasek, J. H.J. Terwindt and A. W. Walther, CE13:72:II-865
The Schematization for Tidal Computations in Case of Variable Bottom Shape, J. J. Dronkers, CE13:72:III-2369
Sediment Budget of the Lower Fraser River, Nick Tywoniuk, CE13:72:II-1105
Sediment Transport in Tidal River, Amarendra N. Biswas and Arun K. Chakrabarti, HY11:Nov 74:1677:10964
Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810
Tidal Hydraulics in the Cano Macareo, Shih-Ang Zagustin, Frank D. Masch and Robert J. Brandes, CE13:72:III-2429
Tidal Waves in Schematic Estuaries, Hans Vollmers and Jurgen Sundermann, 12CEC:71:2133

Tide Gages
Hydrographic Surveys Offshore—Error Sources, Ralph H. Cross, III, SU2:Nov 74:83:10908
A Marine Environmental Survey In The Bay of Fundy, Jack K. Tuttle and Robert L. McCollom, CEO-II:70:805
Tide Gage Frequency Response, Ralph H. Cross, III, WW3:Aug 68:317:6072
Transmission Line Wave Height Transducer, C. M.G. Zwarts, WAVES:Sept 74:605

Tides
Analysis of Hurricane Tides at Padre Island, Texas, Frank D. Masch, Robert J. Brandes, Floyd R. Hill and William A. White, 12CEC:71:2031
The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979
Case History of Los Angeles-Long Beach Harbors, Robert W. Whalin, Claude E. Chatham, Donald L. Durham and Ellis B. Pickett, WAVES:Sept 74:466
Character and Stability of a Natural Tidal Inlet, Curtis Mason and Robert M. Sorensen, CE13:72:II-781
Characteristics and Behavior of Pacific Coast Tidal Inlets, Joe W. Johnson, WW3:Aug 73:325:9927
The Cheasapeake Bay Study And Hydraulic Model, John T. Starr, CEO-II:69:349

Coastline Changes Near a Tidal Inlet, Emmanuel Partheniades and James A. Purpura, CE13:72:II-843

Currents in an Interoceanic Canal, Edwin W. Eden, Jr., HY1:Jan 69:79:6342

Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538

Design Criteria for North Sea Dikes, Johann Kramer, WW4:Nov 71:703:8548

Difference Modeling of Stream Pollution, David A. Bella and William E. Dobbins, SA5:Oct 68:995:6192

Dispersion and Flushing of Pollutants in Extuaries, Donald W. Pritchard, HY1:Jan 69:115:6344

Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315

Environmental Problems and Monitoring in Coastal Waters, Arthur T. Ippen, CE13:72:I-9

Evolution of Tidewater Port, Chester A. Peyronnin, Jr., WW2:May 70:387:7287

Hydraulics and Thermal Dispersion in an Irregular Estuary, Ralph R. Boericke and Darryl W. Hall, HY1:Jan 74:85:10282

Hydrography of South Pass, Mississippi River, Lynn D. Wright, WW3:Aug 71:491:8290

Long Wave Propagation in Idealized Estuary, Donald W. Knight, HY7:July 73:993:9842

Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866

Mathematical Tidal Study of St. Lawrence River, J. William Kamphuis, HY3:Mar 70:643:7141

Measurement of Density Currents in an Idealized Model, Timm Stuckrath, 12CEC:71:1979

Modelling Tidal Flow From Harbors, Frederick E. Camfield, TN: WW4:Nov 70:879:7647

New Bedford Hurricane Barrier Operational Problems, Saul Cooper, HY4:July 68:925:6035

New Horizons in the Field of Tidal Hydraulics, Clarence F. Wicker, HY1:Jan 69:147:6346

Numerical Modeling Of Hydromechanics Of Bay Systems, Akhileshwar P. Verma and Robert G. Dean, CEO-II:70:1069

Numerical Model of St. Lawrence River Estuary, David Prandle and Norman L. Crookshank, HY4:Apr 74:517:10472

Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785

One-Dimensional Analysis of Floods and Tides in Open Channels, Armando Balloffet, HY4:July 69:1429:6695

On the Geometrically Similar Reproduction of Dunes in a Tidal Model with Movable Bed, Mehmet Selim Yalin, CE13:72:II-1143

Rapid Discharge Measurement In Tidal Inlets, Bent A. Christensen and H. E. Walker, CEO-II:70:743

Research for the Coastal Area of the Delta Region of the Netherlands, J. J. Dronkers, 12CEC:71:1783

Resistance to Reversing Flows over Movable Beds, Mehmetcik Bayazit, HY4:July 69:1109:6649

Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831

Suspended Load Calculations in a Tidal Estuary, Brian A. O'Connor, 12CEC:71:1931

Systematic Study of Coastal Erosion and Defence Works in the Southwest Coast of India, N. S. Moni, CE13:72:II-1427

Tidal Flow in Exponentially Varying Estuaries, Wen-Hsiung Li and Michael Edwin Kozlowski, HY11:Nov 74:1649:10967

Tidal Motion in Bays, Omar H. Shemdin and R. M. Forney, 12CEC:71:2225

Tidal Power Station on USSR's Arctic Coast, Lev B. Bernstein, CE:Apr 74:46

Tidal Velocities Across A Partly-Completed Barrage, A. Roy Halliwell, HY5:Oct 67:85:5427

Tide Gage Frequency Response, Ralph H. Cross, III, WW3:Aug 68:317:6072

Venice is Sinking into the Sea, Carlo Berghinz, CE:Mar 71:67

Tidewater

Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866

Research Needs on Thermal and Sedimentary Pollution in Tidal Waters by the Committee on Tidal Hydraulics of the Hydraulics Division, Frank D. Masch, Chmn., HY7:July 70:1539:7426

Tie Rods

Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Tied-Back Foundation Wall for Seattle First National Bank, William L. Shannon and Robert J. Strazer, CE:Mar 70:62

Ties

A Case Study of a Soil Anchor Tie-Back System, Michael L. Larson, Willard R. Willette, Harold C. Hall and John P. Gnaedinger, PES:72:I-1341

Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380

Design and Observation of a Tied-Back Wall, Gerald W. Clough, Paul R. Weber and Joseph Lamont, Jr., PES:72:I-1367

An Instrumented Tied-Back Deep Excavation, Thomas K. Liu and John P. Dugan, Jr., PES:72:I-1323

Joints, Precast Panel Buildings, State-of-Art Report 2, Bohdan Lewicki and Adrian Pauw, TB:73:III-21-171

Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259

Plane Strain Approximations in Finite Element Analyses of Temporary Walls, Yuet Tsui and Gerald W. Clough, GT74:June 74:173

Soil-Structure Interaction, Ralph B. Peck, PES:73:II-145

Soil-Structure Interaction -- Reporter's Remarks, Gerald W. Clough, PES:73:III-247

Tensile Ties in Precast Concrete Systems, Adrian Pauw, TB:73:III-23-623

Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239

Tile Drainage

Effect of Backfill on Drain Flow in Layered Soils, Ralph B. Hwang, James N. Luthin and George S. Taylor, IR3:Sept 74:267:10797

Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72:211:8737

Tile Drains

Moving Water Tables in Tile-Drained Soils, Nazar M. Awan and Terence O'Donnell, IR3:Sept 72:459:9167

Need for Envelope Material Above Draintile, Robert W. Saulmon, TN: IR4:Dec 71:661:8560

Sludges and Associated Problems Involving Agricultural Drains in Florida Wetlands, Harry W. Ford, SEA:70:15

Unsteady Flow to Bottom Drain in Bounded Aquifer, Raymond J. Krizek, Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807

Tiles

Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3:Sept 72:363:9183

Steady Drainage of Layered Soils: II, Nomographs, Sadik Toksoz and Don Kirkham, IR1:Mar 71:19:7986

Steady Drainage of Layered Soils: 1, Theory, Sadik Toksoz and Don Kirkham, IR1:Mar 71:1:7985

Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577

Tiltmeters

Potrero Hill Slide and Correction, Travis Smith and Raymond H. Forsyth, SM3:Mar 71:541:8004

Tilt Up Construction

Tilt-Up Wall Construction Speeds Warehouse Construction, CE:June 74:58

Timber Construction

Bonded Wood-Concrete T-Beams, George Pincus, ST10:Oct 69:2265:6842

Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599:8786

Lateral Stability of Wood Beam-and-Deck Systems, John J. Zahn, ST7:July 73:1391:9829

Notes on Trees and Tree Planting, Hans F. Bell, CE:July 73:77

Orthotropic Elastic Properties of Wood, James R. Goodman and Jozsef Bodig, ST11:Nov 70:2301:7682

Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668

Structural Engineering Research in Wood, Billy Bohannan, ST2:Feb 68:403:5784

Structural Timber Research at Forest Products Lab, Fred Werren, ST12:Dec 69:2891:6980

Wood Design Criteria for Concrete Formwork, King Royer, CO2:Sept 67:13:5432

Timbers

Behavior of Wood-Concrete Composite Beams, George Pincus, ST10:Oct 70:2009:7592

Design of Laterally Unsupported Timber Beams, David W. Fowler, ST3:Mar 71:881:7995

Grain Storage Structures for Food Deficient Areas, Alexander M. Turitzin, ST10:Oct 69:2161:6835

Layered Beam Analysis, George W. Swift and Robert A. Heller, EM2:Apr 74:267:10484

Temporary Bulk Grain Storage Structures, Alexander M. Turitzin, ST3:Mar 69:381:6459

Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73:1205:9788

Time

Changes and Changed Conditions, Max E. Greenberg, CEWAU:74:177

Consolidation of a Layer Under a Strip Load, John T. Christian, Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030

Consolidation-Time Relationship for Layered Clays, Yang H. Huang, TN: SM1:Jan 70:371:7022

Design Concepts: Rapid Construction Of Arch Dams, Merlin D. Copen, RCCD:70:113

Designs Tailored To Accelerate Concrete Dam Construction, Gurmukh S. Sarkaria, RCCD:70:161

How To Keep Concrete Dams Competitive, W. Ter Minassian and Pierre Londe, RCCD:70:395

Rapid Construction - Design Considerations, Alfred L. Parme, RCCD:70:151

Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73:75:9484

Time and Motion Studies

Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190

Multivariate Study of Refuse Collection Efficiency, Lawrence J. Partridge, Jr. and Joseph J. Harrington, EE4:Aug 74:963:10729

Time Dependence

Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71:1183:8372

Creep and Shrinkage in Reinforced Concrete Beams, Tuck Wah Leong and Robert F. Warner, ST3:Mar 70:509:7150

Creep Deflection of Reinforced Concrete Beams, Charles A. Miller and Sidney A. Guralnick, ST12:Dec 70:2625:7768

Deformation and Stability of Viscoelastic Soil Media, Cetin Soydemir and Werner E. Schmid, SM6:Nov 70:2081:7708

Demand Model for Intercity Multimode Travel, Jason C. Yu, TE2:May 70:203:7282

Finite Element Analysis of Rock-Salt Pillar Models, Robert Lee Thoms, Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393

Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475

Furrow Irrigation with Decreasing Inflow Rate, Radhey Lal and Amarendra C. Pandya, IR4:Dec 70:451:7748

Markov Renewal Model of Linked Trip Travel Behavior, Gorman Gilbert, George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112

New Rheological Model for Soil Behavior, Fujiya Komamura and Rodney J. Huang, GT7:July 74:807:10675

Numerical Analysis of Free Surface Seepage Problems, Peter W. France, Chandrakant J. Parekh, John C. Peters and Cedric Taylor, IR1:Mar 71:165:7959

Phreatic Surface Location after Drawdown, Arthur H. Dvinoff and Milton E. Harr, SM1:Jan 71:47:7806

Predicting Pavement Performance, Robert E. Boyer and Milton E. Harr, TE2:May 74:431:10533

Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731

Random Processes for Earthquake Simulation, Roy Levy, Frank Kozin and Robert B.B. Moorman, EM2:Apr 71:495:8057

Relaxation Tests on Alloy Steel Bars, Murray A. Muspratt, ST5:May 71:1533:8128

Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729:8544

Statistical Analysis of Continuous Data Records, Ross B. Corotis, TE1:Feb 74:195:10362

Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289

Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25

Sustained and Cyclic Loading of Concrete Columns, Jostein Hellesland and Roger Green, ST4:Apr 71:1113:8033

Sustained Biaxial Load on Slender Concrete Columns, Robert G. Drysdale and Mark W. Huggins, ST5:May 71:1423:8103

Time-Dependent Maximum of Floor Live Loads, Abraham M. Hasofer, TN: EM10:Oct 74:1086:10856

Time-Dependent Reinforced Concrete Slab Deflections, Andrew Scanlon and David W. Murray, ST9:Sept 74:1911:10833

Time-Dependent Rock Behavior in Uniaxial Compression, W. R. Wawersik, RM14:73:85

Time Dependent Shear Stress Beneath a Shoaling Wave, John S. Fisher, Bruce Johnson and Michael E. McCormick, WAVES:Sept 74:799

Time History Dynamic Analysis of Pressurizer Discharge Piping System, F. L. Cho and Y. A. Patel, SDNPF:Dec 73:343

Time Lag

Data Collection Techniques - Time-Lapse Photography, Paul W. Miller and Walter H. Kraft, BP73:Dec 73:221

Time of Concentration

Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540

Hydraulic Treatment Efficiency of Waste Stabilization, Kenneth A. Mangelson and Gary Z. Watters, SA2:Apr 72:407:8849

Urban Runoff by Linearized Subhydrographic Method, Jong-Song Chien and Krishan K. Saigal, HY8:Aug 74:1141:10766

Time Series Analysis

Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72:1935:9353

Variability of Waste Treatment Plant Performance, Robert V. Thomann, SA3:June 70:819:7380

Water Quality Models Using the Box-Jenkins Method, Peter M. Huck and Grahame J. Farquhar, EE3:June 74:733:10629

Time Sharing

Cost-Effective Matching of Task and Computing Device, Ralph E. Miller, Jr. and John McCaslin, ST1:Jan 71:329:7854

Experiences With An Interactive Computing System, Leroy T. Boyer and John C. Casson, EC5:70:467

Experience With A Pol Environment, Edward L. Murphree and John W. Melin, EC5:70:489

Interactive Graphics: Settlement and Slope Stability, Robert L. Schiffman and Jack R. Stein, ST1:Jan 71:253:7832

Project Planning and Control by Time-Sharing Computer, Norman L. Scott and Edward L. Murphree, CO1:Mar 72:37:8758

Scenario For A Third Computer Revolution In Structural Engineering, Steven J. Fenves, EC5:70:829

Scenario for a Third Computer Revolution in Structural Engineering, Steven J. Fenves, ST1:Jan 71:3:7812

Timing

Mechanical Structures for Farm Irrigation, Allan S. Humpherys, IR4:Dec 69:463:6944

Optimal Utilization of Playa Water in Irrigation, Marvin J. Dvoracek and Theodore G. Roefs, OIDS:72:597

Stress Day Index ... A New Concept for Irrigation Timing, Edward A. Hiler, Terry A. Howell and David G. Bordovsky, OIDS:72:579

Summary of the Session on Federal Inspection Activities, Samuel H. Miles, IMROD:Sept 73:67

Tires

Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925

Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347

Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41

Toilet Facilities

Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098

Tolerances (Mechanics)

Dimensional Tolerance - Concrete, State-of-Art Report 5, Philip W. Birkeland and Leonard J. Westhoff, TB:73:Ib-9-845

Dimensional Tolerance in Concrete, Anthony E. Fiorato and Sven Sahlin, TB:73:Ib-9-893

Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833

Quality Control Criteria, Summary Report, E. James White, Robert L'Hermite and I. Gramolin, TB:73:Ib-9-901

Quality Control in Steel Frame Fabrication of Tall Buildings, State-of-Art Report 3, Sansei Miki, Hiroshi Ohba and Toshio Kamei, TB:73:Ib-9-817

Walt Disney World Monorail Designed for Smooth Riding, Robert F. Mast and Charles W. Dolan, CE:Mar 72:48

Toll Roads

Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316

Topographic Surveys

Analytical Plotter System, James R. Skidmore, SU2:Sept 70:253:7559

Topography

Chart Compilation-Field and Office, William J. Monteith, SU2:Sept 70:157:7522

Charting New Transportation Environment, John A. Osborn, SU2:Sept 70:265:7565

Circulation in Shallow Homogeneous Lakes, James A. Liggett and Christos Hadjitheodorou, HY2:Mar 69:609:6454

Computation for Circulation in Stratified Lakes, Kwang K. Lee and James A. Liggett, HY10:Oct 70:2089:7634

Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268

Evolution of Location and Design of TVA Power Substations, Robert C. St. Clair and John W. Sanders, EPCE:Aug 74:525

Land Acquistion Surveys and Maps for Reservoirs, Russell S. Dittmer, SU2:Nov 71:215:8500

Modern Day Surveys for Highway Location and Design, Jon S. Beazley, SU1:Apr 70:11:7196

Multiple Use of Irrigation Systems in East Pakistan, Huai-Yun Hsu and Harvey G. Hewitt, OIDS:72:115

Public Irrigation Systéms In Puerto Rico, Garcia Rafael Reyes, IR1:Mar 71:109:7953

Reconnaissance for Dam Sites in Remote Areas, Vernon E. Swanson, SU1:Apr 70:97:7244

Topographic Maps for Construction Planning, Robert H. Lyddan, SU1:Apr 70:51:7221

Variation of Topography of Sea-bed Caused by the Construction of Breakwaters, Shoji Sato and Isao Irie, 12CEC:71:1301

Topology

Algorithm for Matrix Bandwidth Reduction, Henry R. Grooms, ST1:Jan 72:203:8636

Constraint Processing in Design, Richard N. Wright, LeRoy T. Boyer and John W. Melin, ST1:Jan 71:481:7856

Topsoil

Properties of Slightly Organic Topsoils, Robert D. Holtz and Raymond J. Krizek, CO1:June 70:29:7358

Tornadoes

Design of Browns Ferry Chimney, John W. Smith and Asgeir Jonsson, PO3:June 70:437:7359

Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948

A General Study of Tornado Generated Missiles, A. J.H. Lee, SDNPF:Dec 73:515

In-Home Shelters from Extreme Winds, Ernst W. Kiesling and David E. Goolsby, CE:Sept 74:105

Nuclear Power Plant Tornado Design Considerations, James A. Dunlap and Karl Wiedner, PO2:Mar 71:407:7949

Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andrew Morcos and Shih-Lung Chu, SDNPF:Dec 73:263

Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668

Schools. . . With Tornado Protection (Book Review), Joseph E. Minor, CE:Sept 74:44

Selection of Design Basis Tornado, M. A. Suarez, SDNPF:Dec 73:597

Tornado Generated Missiles, James R. McDonald, Joseph E. Minor and Kishor C. Mehta, SDNPF:Dec 73:543

Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249

Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425

Toroids

Axisymmetric Stresses and Displacements in Thick-Walled Elastic Torus, David J. McGill and Ira H. Rapp, III, TN: EM3:June 73:629:9765

Torque

Consideration of Torsional Moment In Design of a Floating Structure, John C. Sonnichsen, Jr., WW1:Feb 69:35:6399

Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72:1161:8922

Ultimate Torque of Rectangular Reinforced Concrete Beams, Ganpat S. Pandit, TN: ST9:Sept 70:1987:7503

Torsion

Analysis of Box Girders with Diaphragms, Sana R. Abdel-Samad, Richard N. Wright and Arthur R. Robinson, ST10:Oct 68:2231:6153

Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233:8643

Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234

Behavior of Single Horizontally Curved Girder, Conrad P. Heins, Jr. and Kenneth R. Spates, ST7:July 70:1511:7420

Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7:July 72:1361:9010

Box Girder Model Studies, Dennis E. Myers and Peter B. Cooper, ST12:Dec 69:2845:6966

Composite Beams in Torsion, Conrad P. Heins, Jr. and John T.C. Kuo, ST5:May 72:1105:8921

Concrete Beams in Bending, Torsion and Shear, Arthur E. McMullen and Joseph Warwaruk, ST5:May 70:885:7270

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3:June 72:595:8968

Design of Reinforced Concrete Spandrel Beams, Thomas T.C. Hsu and Kenneth T. Burton, ST1:Jan 74:209:10277

Dynamic Prestraining of Dry Sand, Vincent P. Drnevich and Frank E. Richart, Jr., SM2:Mar 70:453:7160

General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73:365:9604

Irregular Supports and Skew Diaphragms of Box Girders, Vladimir Kristek, ST5:May 74:917:10541

Kazerne Viaduct Collapse, Konstant E. Bruinette, Alan J. Ockleston and Pieter C. Pretorius, ST2:Feb 74:335:10361

Kelvin's Solution of Torsion Problem, Egor P. Popov, EM6:Dec 70:1005:7734

Lateral Buckling of Constrained Beams, Thomas G. Morrison, ST3:Mar 72:741:8793

Long-term Pressures Effects on Shear Modulus of Soils, Sherif S. Afifi, SM10:Oct 71:1445:8475

Out-Of-plane Buckling of Curved Members, Morris Ojalvo, Edvins Demuts and Frank J. Tokarz, ST10:Oct 69:2305:6865

Prestressed Beams in Torsion, Bending, and Shear, Robert L. Henry and Paul Zia, ST5:May 74:933:10560

Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1:Jan 73:183:9501

Reinforced Concrete Rectangular Columns in Torsion, Alfred G. Bishara and Jong-Cherng Peir, ST12:Dec 68:2913:6305

Reinforcement for Torque in Spandrel L-Beams, Umakanta Behera, K. S. Rajagopalan and Phil M. Ferguson, ST2:Feb 70:371:7103

Response of Slender Columns to Rapid Compression, Martin L. Moody, EM1:Feb 69:211:6403

Response of Torsionally Excited Foundations, Anestis S. Veletsos and V. V. Damodaran Nair, TN: GT4:Apr 74:476:10454

Singular Integral Equation Solution For Torsion, Christopher C. Lo and Francis W. Niedenfuhr, TN: EM4:Aug 70:535:7444

Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193

Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022

Structural Analysis of Circular Curved Beamn, Samuel Engel, ST1:Mar 67:221:5099

Subassemblage Technique for Asymmetric Structures, William R. Hibbard and Peter F. Adams, ST11:Nov 73:2259:10132

Tapered Box Girders of Deformable Cross Section, Vladimir Kristek, ST8:Aug 70:1761:7489

Tests of Concrete Columns in Torsion, Ganpat S. Pandit and Manak B. Mawal, ST7:July 73:1409:9850

Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867

Torsional Analysis of Box-Girder Suspension Bridges, H. Max Irvine, ST4:Apr 74:789:10464

Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73:1205:9788

Torsional-Flexural Buckling Effects in Portal Frames, David A. Nethercot, TN: ST9:Sept 74:1985:10775

Torsional-Flexural Vibration of Multi-Story Structures, Jacob Gluck, TB:73:Ib-6-298

Torsional Stiffness of Embedded Footings, Movses J. Kaldjian, SM7:July 71:969:8241

Torsional Strength of Prestressed Concrete Beams, H. Roger Woodhead and Arthur E. McMullen, ST5:May 74:881:10545

Torsional Vibrations of Circular Foundations, Gerd F. Weissmann, SM9:Sept 71:1293:8402

Torsion Analysis of Heavy Box Beams in Structures, Frederick A. Smith, Jr., Francis M. Thomas and James O. Smith, ST3:Mar 70:613:7165

Torsion Analysis of Symmetric Building Structures, Alexander Coull and Bryan Stafford Smith, TN: ST1:Jan 73:229:9464

Torsion and Bending of Prestressed Concrete Beams, Lawrence H. Martin and Peter J. Wainwright, ST11:Nov 73:2229:10129

Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130

Torsion, Bending and Shear in Prestressed Concrete, Priya R. Mukherjee and Joseph Warwaruk, ST4:Apr 71:1063:8041

Torsion-Bending-Shear Interaction for Concrete Beams, Lennart Elfgren, Inge Karlsson and Anders Losberg, ST8:Aug 74:1657:10749

Torsion/Flexure Interaction, Neil Jackson, TB:73:III-22-463

Torsion in Beams with Open Sections, Kuang-Han Chu and Robert B. Johnson, ST7:July 74:1397:10666

Torsion of Cylinders with Multiple Reinforcement, You-Ming Kuo and Harry D. Conway, EM2:Apr 74:221:10460

Torsion of Nonhomogeneous Anistropic Bars, Somasundaram Valliappan and V. Pulmano, TN: ST1:Jan 74:286:10264

Torsion of Nonhomogeneous Solid, Manoon Chuaprasert and Mumtaz K. Kassir, EM4:Aug 73:703:9948

Torsion of Nonprismatic Beams of Open Section, Donald R. Evick and Conrad P. Heins, Jr., ST12:Dec 72:2769:9453

Torsion of Perforated Concrete Shafts, Riko Rosman, ST5:May 69:991:6578

Torsion, Shear, and Bending on Stirruped L-Beams, Umakanta Behera and Phil M Ferguson, ST7:July 70:1271:7419

Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209

Transmission Towers Under Torsional Loads, Albert W.G. Hanna and Richard G. Redwood, PO1:May 73:105:9701

What Do We Know About Torsion in Concrete Members, Paul Zia, ST6:June 70:1185:7372

Torsional Strength

Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800

Inelastic Spatial Stability of Restrained Beam-Columns, Sriramulu Vinnakota and Pentti Aysto, ST11:Nov 74:2235:10919

Torsion of Nonprismatic Beams of Open Section, Donald R. Evick and Conrad P. Heins, Jr., ST12:Dec 72:2769:9453

Torsion Bars

Need For Diaphragms in Concrete Box Girders, Denison Campbell-Allen and Raymond J.L. Wedgwood, ST3:Mar 71:825:7965

Torsion Shear Tests

Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977

Torsion Tests

Soil Liquefaction by Torsional Simple Shear Device, Isao Ishibashi and Mehmet A. Sherif, GT8:Aug 74:871:10752

Towed Bodies

The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193

Towers

Analysis and Design of Tower Foundations, Richard L. Wiggins, PO1:Mar 69:77:6469

The Computer's Role in Transmission Line Design, Charles F. Beck, EC5:70:63

Computer's Role in Transmission Line Design, Charles F. Beck, ST1:Jan 71:63:7817

Cooling Water Sources For Power Generation, Louis G. Hauser, PO1:Jan 71:123:7804

Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988

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How Safe are Your Poles?, Joseph R. Arena, ST7:July 73:1333:9848

How Safe Are Your Towers?, Joseph R. Arena, ST1:Jan 70:1:6994

Hyperbolic Cooling Towers Under Wind Load, Seng-Lip Lee and Phillip L. Gould, ST5:Oct 67:487:5532

New Microwave Tower Design Reduces Drag, Demetri Zavitzianos, CE:Mar 71:46

Newport Bridge Superstructure, Alfred Hedefine and Louis G. Silano, ST11:Nov 71:2653:8533

Oceanic Factors Pertinent to Shelf Installations, Eugene C. La Fond and Katherine G. La Fond, CEO-II:70:783

Optimum Design of Truss Structures For Ultimate Loads, William S. LaPay and George G. Goble, EC5:70:223

Response Of Offshore Towers To Earthquake Excitation, Anil K. Malhotra and Joseph Penzien, CEO-II:70:65

Response of Structures to Time-Varying Wind Loads, Arthur N.L. Chiu, ST2:Feb 70:381:7104

Shells of Revolution with Concentrated Edge Forces, David G. Elms, EM3:June 69:711:6625

Some Design Aspects of a Divided Gate Tower, W. L. Grigg, Robert E. Johnson and Rolf Kellerhals, PO2:Oct 67:1:5482

Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683

Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242

Stochastic Seismic Analysis of Yielding Offshore Towers, Maharaj K. Kaul and Joseph Penzien, EM5:Oct 74:1025:10884

Superstructure for 1,350-ft.-High World Trade Center, Lester S. Feld, CE:June 71:66

Tall Floating Towers, Lawrence Wayne Martin and Phillip J. McCabe, CEO-II:70:879

Tower: A Design System For Guyed Towers, Karl L. Reichelt, Daniel M. Brown and John W. Melin, EC5:70:377

Tower Designs for AEP 765-KU Project, Richard A. Kravitz and James A. Samuelson, PO2:Oct 69:305:6855

Tower: Design System for Guyed Towers, Karl L. Reichelt, Daniel M. Brown and John W. Melin, ST1:Jan 71:237:7836

Tower Response to Actual and Simulated Wind Forces, Arthur N.L. Chiu and George T. Taoka, ST9:Sept 73:1911:10012

Transmission Towers Under Torsional Loads, Albert W.G. Hanna and Richard G. Redwood, PO1:May 73:105:9701

Transthetics, Harold P. Hulett, PO1:June 72:103:8989

Ultimate Capacity of Single Bolted Angle Connections, John B. Kennedy and George R. Sinclair, ST8:Aug 69:1645:6721

Unbalanced Tensions in Transmission Lines, David B. Campbell, ST10:Oct 70:2189:7622

Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723

Towing

Ocean Tug-Barge Systems, Lawrence R. Glosten, WW2:May 72:243:8868

On Acceleration of Barge Tows, Joseph S. DeSalvo, WW2:May 69:121:6545

Toxicity

Metal Toxicity to Sewage Organisms, Calvin P.C. Poon and Kiran L. Bhayani, SA2:Apr 71:161:8020

Selection of Disposal Areas for Spoil From Baltimore Harbor, John F. Hoffman, 12CEC:71:2267

Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73:133:9783

Toxicology

Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Toxic Tolerances

Berth Planning by Evaluation of Congestion and Cost, Stavros N. Nicolaou, WW4:Nov 67:107:5577

Tracers

Basin Tracer Curves Interpreted by Basic Analytics, A. Adler Hirsch, SA6:Dec 69:1031:6951

Characterization of Mixing Aerated Lagoons, Keith L. Murphy and Alfred Warren Wilson, EE5:Oct 74:1105:10865

A Class of Probability Models for Littoral Drift, William R. James, 12CEC:71:831

Design Principles of Waste Stabilization Ponds, D. Thirumurthi, SA2:Apr 69:311:6515

f_2 Coliphage as Tracer in Wastewater Basin, Kazuyoshi Kawata and Vincent P. Olivieri, TN: EE6:Dec 74:1307:10978

Fluorometer Calibration Curves and Nomographs, Thomas A. Butts, SA4:Aug 69:705:6728

Flux Development Region in Submerged Jets, W. Hall C. Maxwell, EM6:Dec 70:1061:7756

Hydraulic Treatment Efficiency of Waste Stabilization, Kenneth A. Mangelson and Gary Z. Watters, SA2:Apr 72:407:8849

Longitudinal Dispersion in Sinuous Channels, Shoju Fukuoka and William W. Aure, HY1:Jan 73:195:9479

The Measurement of Offshore Shingle Movement, Maurice J. Crickmore, C. B. Waters and W. A. Price, CE13:72:II-1005

Predicting Effects of Dead Zones on Stream Mixing, Edward L. Thackston and Karl B. Schnelle, Jr., SA2:Apr 70:319:7218

Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1:8959

Rate of Sediment Motion Using Fluorescent Tracer, Abdel-Latif A. Kadib, CE13:72:II-985

Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3:June 73:283:9797

Tracer Dispersion of High Rate Settling Tanks, Hassan M. El-Baroudi and David R. Fuller, EE3:June 73:347:9820

Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947

Tracer Studies of Sediment Transport Processes, Ronald E. Rathbun and Carl F. Nordin, HY9:Sept 71:1305:8364

Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
Unified View of Diffusion and Dispersion, Edward R. Holley, HY2:Mar 69:621:6462

Tractive Forces
Bed Load Transportation in Alluvial Channels, Satya P. Garg, Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10: Oct 73:1659:10070
Distribution of Tractive Force in Open Channels, Viswanathan C. Kartha and Hans J. Leutheusser, HY7:July 70:1469:7415
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845
Longshore Transport Computations, Eco W. Bijker, WW4:Nov 71:687:8546
Preservation of Estuaries by Tidal Inlets, Mason G. Lockwood and Henry P. Carothers, WW4:Nov 67: 133:5583

Trade Associations
Public and Legislative Support for Bikeways, John Auerbach, BP73:Dec 73:20

Traffic
Air Traffic Simulation, One and Two-Runway Airports, Stephen Hall, TE1:Feb 74:221:10342
Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
Balanced Highway-Airport Design, Henry K. Evans, TE1:Feb 69:213:6420
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
The Bicycle as It Relates to the Energy Crisis, Nina D. Dougherty, BP73:Dec 73:331
Congestion in Marina Entrance Channels Due to Sailboats, Allen L. Ely and John M. Nichol, WW4: Nov 73:415:10137
Costs and Benefits of Reducing Bicyclists' Exposure to Road-Side Air Pollution, Mike Everett, BP73: Dec 73:352
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
Designing Arterial Streets for Safety, Laurence A. Dondanville, TE1:Feb 71:43:7885
Developing an Improved Traffic Operations Program, Peter A. Mayer, TE2:May 71:263:8099
The Economics and Importance of Speed, Herbert S. Levinson, HW1:June 68:1:5972
The Elderly Pedestrian: A Special Problem, Susan B. Haberkorn, BP73:Dec 73:414
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
FHWA Traffic Research Program, Carl F. Izzard, TE2:May 71:333:8133
Further Analysis of Optimum Size Seaport, Stephen R.C. Wanhill, WW4:Nov 74:377:10961
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
Houston Airport's Low Cost People-Mover, Hal K. Puckett and James C. Williamson, TE1:Feb 74:255: 10330
Incorporating Highway Safety into Level of Service, Walter J. Diewald, TE2:May 74:417:10557
Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740
Maintenance of Bicycle Facilities - An Overview, Thomas A. Gawley and Walter H. Kraft, BP73:Dec 73:143
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72: 769:9355
Modern Design of Concrete Pavements, Phil Fordyce and W. A. Yrjanson, TE3:Aug 69:407:6726
Moving Walks, Ralph W. Blevins, BP73:Dec 73:463
Navigation Charting for Inland Waterways, Benjamin O. Holmes, SU1:Oct 69:117:6856
New Concepts in Rail-Bus Interchange, Joel P. Leisch, TE1:Feb 74:103:10328
Optimizing Traffic Flow on Existing Street Networks, Wesley La Baugh, TE2:May 71:353:8135
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728
Paved Highway Shoulders and Accident Experience, Clinton L. Heimbach, William W. Hunter and George C. Chao, TE4:Nov 74:889:10921
Planning and Designing for the Pedestrian Environment, Anthony R. Ameruso, BP73:Dec 73: 204
Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315
Problems in Assuring the Safety of Pedestrians, Susan P. Baker, BP73:Dec 73:364
Research on Safety and Locational Criteria for Bicycle Facilities, Daniel T. Smith, Jr., BP73:Dec 73:134
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932
Safety Aspects of Bicycle Transportation, Paul H. Wright, A. Trent Germano and R. Gary Hicks, BP73:Dec 73:368
Service Volumes for Functional Classification, Thomas R. Bright, TE4:Nov 70:561:7671
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140
Sun Shading, Shadows and Effects on Traffic, John S. Gero, TB:73:Ia-1-259
Traffic and Service Characteristics of Pedestrians in Terminals, John J. Fruin, MTI:May 72:91
Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555
Transportation Access to Special Generators, Frederick J. Wegmann, John Ojo and Michael Kennedy, TE3:Aug 74:643:10728
Turn Penalty Effects on Minimum Time Paths, Donald L. Woods, J. T. Brudeseth and Vergil G. Stover, TE4:Nov 69:659:6896
Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316

Traffic Assignment
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73: 725:10126
Turn Penalty Effects on Minimum Time Paths, Donald L. Woods, J. T. Brudeseth and Vergil G. Stover, TE4:Nov 69:659:6896
User-Optimized Traffic Assignment, Frank J. Hatfield, TE2:May 74:313:10519

Traffic Control
Bicycling Safety and Enforcement Programs - Why They Fail, Larry Wuellner, BP73:Dec 73:565
Carpools - the Underutilized Mode, Lew Pratsch, CE:Jan 74:49
The Elderly Pedestrian: A Special Problem, Susan B. Haberkorn, BP73:Dec 73:414
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
"Highway Safety, Design and Operations, Narrow Bridges-Driver Dilemmas," report of hearings before the Subcommittee on Investigations and Review of the Committee on Public Works, House of Representatives (Book Review), Frederick Reickert, CE:Apr 74:36
Information System in Transportation Facilities, Paul Arthur, MTI:May 72:99
Investing in Urban Bicycle Facilities: How Much? What Type? Where?, Richard C. Podolske, BP73: Dec 73:596
Licensing of Pedicycle Operators, Lawrence C. Wilson, BP73:Dec 73:571
Modern Applications of Traffic Control Devices, John A. Bruce, TE1:Feb 71:153:7906

Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
Problems in Assuring the Safety of Pedestrians, Susan P. Baker, BP73:Dec 73:364
Regulations for Pedestrian and Bicycle Safety: Why, Who, What and How to Regulate, Monroe B. Snyder, BP73:Dec 73:553
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
There Oughta Be A Law!, Norman A. Clarke, BP73: Dec 73:550

Traffic Engineering
Base Year Trip Tables for Statewide Traffic Models, Dana E. Low, TE3:Aug 69:559:6752
Book Review: Traffic Engineering, Theory And Practice, John M. Freiermuth, CE:Dec 73:24
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918
The Driver and the Road, Donald L. Woods, TE4: Nov 71:609:8513
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
Four-Day Week and Transportation, Vincent R. Desimone, TE3:Aug 72:705:9116
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
Philadelphia Regions' Urban Corridor Demonstration Program, Ira N. Pierce, NA:Mar 71:161
Planning for Campus Traffic and Parking, Joseph W. Guyton and George L. Reed, TE1:Feb 71:63:7880
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932
Sun Shading, Shadows and Effects on Traffic, John S. Gero, TB:73:Ia-1-259
Synthetic Through Trip Patterns, David G. Modlin, Jr., TE2:May 74:363:10526
A Systems Analysis Method For Pavement Structures, William Ronald Hudson, B. Frank McCullough and Frank H. Scrivner, EC5:70:95
Traffic Volume Characteristics of Urban Freeways, Kenneth W. Heathington and Paul R. Tutt, TE1: Feb 71:105:7921
Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2: May 72:285:8914
Wind Loading on Free-Swinging Traffic Signals, James F. Marchman, III, TE2:May 71:237:8140

Traffic Regulations
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140

Traffic Safety
Bicycling Safety and Enforcement Programs - Why They Fail, Larry Wuellner, BP73:Dec 73:565
Concrete Safety Barrier Design, Edwin C. Lokken, TE1:Feb 74:151:10356
Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347
Getting the Job Done, Carl Berkowitz and Richard Cohen, BP73:Dec 73:282
Maintenance of Bicycle Facilities - An Overview, Thomas A. Gawley and Walter H. Kraft, BP73:Dec 73:143
Major Research Studies on Signs, Lights and Guardrails, James R. Novak and Krieger W. Henderson, Jr., TE4:Nov 70:523:7663
Now That You Have One, What Have You Done For Your Bikeway Lately?, John M. Freiermuth, BP73:Dec 73:151
Operation and Maintenance of Campus Bicycle Facilities, John E. Baerwald, BP73:Dec 73:167
Pedestrian Precincts in City Centers, Robert Sewall Browne, BP73:Dec 73:248
Planning and Designing for the Pedestrian Environment, Anthony R. Ameruso, BP73:Dec 73:204
Prospects for Bicycle Transportation, Jason C. Yu, BP73:Dec 73:645
Research on Safety and Locational Criteria for Bicycle Facilities, Daniel T. Smith, Jr., BP73:Dec 73:134
Safety Aspects of Bicycle Transportation, Paul H. Wright, A. Trent Germano and R. Gary Hicks, BP73:Dec 73:368

Traffic Signals
Balanced Highway-Airport Design, Henry K. Evans, TE1:Feb 69:213:6420
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
Benefits from TOPICS-type Improvements, H. Jack Leonard, CE:Feb 71:62
Metropolitan Toronto Traffic Surveillance and Control System, J. T. Hewton, CE:Feb 69:40
Optimizing Traffic Flow on Existing Street Networks, Wesley La Baugh, TE2:May 71:353:8135
Wind Loading on Free-Swinging Traffic Signals, James F. Marchman, III, TE2:May 71:237:8140

Traffic Surveys
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
Base Year Trip Tables for Statewide Traffic Models, Dana E. Low, TE3:Aug 69:559:6752
Behavioral Evaluation of Pedestrian Countermeasures, Wallace G. Berger, BP73:Dec 73:112
Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
Bikeway Planning and Design, H. M. Huffman, Jr., BP73:Dec 73:655
Data Collection Techniques - Time-Lapse Photography, Paul W. Miller and Walter H. Kraft, BP73:Dec 73:221
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
Highway and Modal Choice Decisions, Donald A. Morin, TE1:Feb 73:145:9569
The Identification of Transportation Demand, Richard de Neufville and Joseph H. Stafford, UTI: 71:281
Impedance Minimization Travel Choice Process, Edward A. Beimborn, TE2:May 72:177:8882
Integrated Measurement Framework for Transportation Planning, George C. Wickstrom, TE2:May 72:275:8910
Measuring and Interpreting Consumer Preferences, Siegfried M. Breuning, UTI:71:307
Patterns of Mobility of Working Poor, Arthur Saltzman and Alice E. Kidder, TE3:Aug 74:769:10760
Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, John Forester, BP73:Dec 73:315
Public Attitude Toward Transportation Issues, H. Richard Orth and Walter Cherwony, TE3:Aug 70:365:7478
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Some Thoughts on Urban Transportation Goals and Objectives, Milton Pikarsky, NA:Mar 71:25
Synthetic Through Trip Patterns, David G. Modlin, Jr., TE2:May 74:363:10526
Systematically Analyzing Transportation Alternatives, Marvin L. Manheim and Earl R. Ruiter, UTI:71:207
The Tempe Bikeway Study, Elizabeth A. Drake, BP73:Dec 73:297
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4: Nov 72:799:9362
Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555

Traffic Volume Characteristics of Urban Freeways, Kenneth W. Heathington and Paul R. Tutt, TE1: Feb 71:105:7921
Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3: Aug 72:715:9124

Training
The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74: 1-559
ASCE Minority Programs, Gerald L. Baker, CE:Aug 73:54
BS-CET Program at Western Kentucky University, Boyce D. Tate, CEE:Feb 74:1-244
Construction Education -- A Case of Civil Engineering Indigestion, Edward F. Shaifer, Jr., CEE:Feb 74:1-538
Continuing the Enchancement of Mankind's Welfare: A Civil Engineer's Responsibility for Professional Development and Maintenance of Competence, C. Allen Wortley, CEE:Feb 74:1-808
Education and Training Viewed by a Younger Member, James F. Stahl, CWFE:Mar 71:261
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
New Interdisciplinary Program in Construction Management at WPI, A. Fattah Chalabi, CEE:Feb 74:1-645
A Proposed Doctor of Engineering Program, Fred J. Benson and Charles H. Samson, Jr., CEE:Feb 74:1-772
Technician and Technologist Education in 1974, John L. Rumpf, CEE:Feb 74:1-210
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897
What the General Contractor Looks for in a Recent Graduate, Luther Hill, Jr., CEE:Feb 74:1-374

Trains
Houston Airport's Low Cost People-Mover, Hal K. Puckett and James C. Williamson, TE1:Feb 74:255: 10330

Tramways
Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41

Transducers
Structural Reaction Dynamometers, M. Daniel Vanderbilt, ST6:June 71:1701:8188
Transmission Line Wave Height Transducer, C. M.G. Zwarts, WAVES:Sept 74:605

Transfer Functions
Predicting Pavement Performance, Robert E. Boyer and Milton E. Harr, TE2:May 74:431:10533
Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248

Transferring
Location Models: Solid Waste Collection Example, David H. Marks and Jon C. Liebman, UP1:Apr 71: 15:8027

Transformations
Inversion of Mercator Coordinates, Erwin Schmid, TN: SU2:Nov 72:243:9385

Transient Flow
Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115
Approximate Solution for Unconfined Seepage, Chandrakant S. Desai, IR1:Mar 73:71:9607
Colorado River-Flow Management, Robert E. Glover, Chester A. Nelson and John I. Sanders, HY11:Nov 74:1519:10934
Dam Collapse Wave in a River, Armando Balloffet, Eric Cole and Armando F. Balloffet, HY5:May 74: 645:10523
Deposition of Sediment in Transient Flow, Fred F. M. Chang and Dennis L. Richards, HY6:June 71: 837:8191
Fourier Analysis of Transient Wave System, Edward K. Noda, WW4:Nov 71:663:8535
Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73: 603:9912
Photographic Study Of Water Column Separation, Hemmat H. Safwat, TN: HY4:Apr 72:739:8803
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151
Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628
Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466
Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72: 211:8737
Unconfined Transient Seepage in Sloping Banks, Chandrakant S. Desai and Walter C. Sherman, Jr., SM2:Feb 71:357:7915
Unsteady Flow to Bottom Drain in Bounded Aquifer, Raymond J. Krizek, Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807

Transient Response
Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652

Transients
Difference Method for Higher-Order Equations of Flow, G. S. Rodenhuis, HY3:Mar 73:471:9628
Four-Point Method of Characteristics, Michael B. Abbott and Adrianus Verwey, HY12:Dec 70:2549: 7763
Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191
Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted B. Belytschko, PO2:Nov 73:349:10150

Transient Stress
Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115

Transition Flow
Difference Method for Higher-Order Equations of Flow, G. S. Rodenhuis, HY3:Mar 73:471:9628
Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71: 1269:8367
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897: 10119

Transits
Monitoring Water Pollution by Remote Sensing, James P. Scherz, SU2:Nov 71:307:8550

Transit Systems
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032
No Wait Nonstop Pneumatic Tired Transit System, Vincent H. Larson, TN: TE1:Feb 72:161:8689
Schedule Planning and Timetable Construction for Commuter Railroad Operations, Edward K. Morlok and Hugo L. Vandersypen, TE3:Aug 73:627:9922

Translations
Translations of Foreign Literature on Hydraulics, Jan C. Van Tienhoven, Chmn., HY10:Oct 70:2079:7630

Transmission Lines
Analysis and Design of Tower Foundations, Richard L. Wiggins, PO1:Mar 69:77:6469

Comprehensive Unified Land Data System, Robert N. Cook, SU1:Oct 69:103:6851
Computation of Cutting Length of Guys, Stanley J. Jarecki, Y. C. Lee and Paul P. Christiano, PO4:Dec 71:817:8587
The Computer's Role in Transmission Line Design, Charles F. Beck, EC5:70:63
Computer's Role in Transmission Line Design, Charles F. Beck, ST1:Jan 71:63:7817
Design of Steel Transmission Pole Structures, Gene M. Wilhoite, ST12:Dec 74:2449:11009
Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134
Effect of Turbulence on Galloping Instability, Milos Novak and Hiroshi Tanaka, EM1:Feb 74:27:10338
Environmental Considerations in Design of Transmission Lines, Harry Brenman and Dwight A. Covington, PO3:June 70:369:7350
Environmental-Geotechnical Considerations in the Routing of EHV Transmission Lines, Alfred E. Caswell, Charles V. Nazare, Richard J. Berger and Joseph F. Torri, EPCE:Aug 74:587
Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
How Safe are Your Poles?, Joseph R. Arena, ST7: July 73:1333:9848
Joint Use of Rights-of-Way Can Reduce Costs of Services, T. W. Mermel, CE:Mar 69:56
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
Prestressed Concrete Transmission Line Structures, Fred Ruckhaus, PO1:May 68:25:5934
Raw Water Transmission System for Springfield, Mass., Walter B. Sinnott and Sheldon S.W. Yuan, TE3:Aug 71:459:8312
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
Self-Controlled Vibration of a Cylinder in a Fluid Stream, Giampaolo DiSilvio, EM2:Apr 69:347:6498
Static Ending Strain in Stranded Conductor, James C. Poffenberger and Puran R. Mehta, ST11:Nov 70: 2429:7687
Testing Transmission Line Belled Auger Footings, Richard S. Saliman, PES:72:I-1501
Transmission Lines Probe a New Frontier, The Ocean, Ian Watson, Joseph A. Fischer and Lawrence A. Salomone, EPCE:Aug 74:557
Transthetics, Harold P. Hulett, PO1:June 72:103: 8989
Unbalanced Tensions in Transmission Lines, David B. Campbell, ST10:Oct 70:2189:7622
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723

Transmission Loss

Management of Ephemeral Stream Channels, Herbert B. Osborn and Kenneth G. Renard, IR3:Sept 73: 207:10005

Transmission Towers

Guide for the Design of Aluminum Transmission Towers, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
Transmission Towers Under Torsional Loads, Albert W.G. Hanna and Richard G. Redwood, PO1:May 73:105:9701

Transpiration

Irrigation Scheduling on the Minidoka Project, Idaho, Jerry F. Buchheim, OIDS:72:539
Simulation of Post-Irrigation Moisture Movement, Fred J. Molz, IR4:Dec 72:523:9419
Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415

Transportation

Access to Airports: Basic Policy Development Issues, Robert F. Baker, Chmn., TE3:Aug 69:521:6748
Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau-Kai Cheung, TE1:Feb 72:37:8699
Airfield Pavement Systems, Edward L. Murphree, Ronald W. Woodhead and Robert H. Wortman, TE3:Aug 71:389:8283
Analog Analysis of Water Distribution Networks, Don J. Wood, TE2:May 71:281:8112
Analysis of BART Impacts on Bay Area Land Use, Douglass B. Lee, Jr., TE2:May 72:395:8907
Analysis of Need for Goods Movement Forecasts, Davit Fresko, Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Analysis of Transportation Planning Education, Lester A. Hoel, TE2:May 70:123:7255
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
Application of Computers to Airport Planning and Design, Rufus C. Phillips, III, TE3:Aug 70:341: 7472
Assessing Impact of Urban Transportation, David E. Boyce, TE3:Aug 72:645:9111
Atlanta's Instant Runway, Robert W. Richards, TE3: Aug 71:491:8306
Automobile Energy Requirements, Eric Hirst, TE4: Nov 74:815:10909
Balanced Highway-Airport Design, Henry K. Evans, TE1:Feb 69:213:6420
Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
Barge Transportation-Energizer of Production and Marketing, Braxton B. Carr, WW2:May 69:163: 6559
BART Demonstration Program, David G. Hammond, TE4:Nov 71:627:8508
BART Rail Transit System Begins Operations, CE: Nov 72:63
Basis for Simulation Model of Container Terminal, Fraser Dunford, TE3:Aug 72:607:9099
Behavioral Perspective for Transportation Planning, D. Geoffrey Hayward, MTI:May 72:27
Behavior and Transit Vehicle Design, Robert Lepper, MTI:May 72:37
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
The Bicycle as It Relates to the Energy Crisis, Nina D. Dougherty, BP73:Dec 73:331
Bicycles for the Human Environment: New Developments at the U.S. Department of Transportation, Benjamin O. Davis, Jr., BP73:Dec 73:30
Book Review: Traffic Engineering, Theory And Practice, John M. Freiermuth, CE:Dec 73:24
Buses Get Exclusive Use of Freeway Median, Marvin C. Gersten and Jeanine M. Kahan, CE:July 70:68
Charting New Transportation Environment, John A. Osborn, SU2:Sept 70:265:7565
Citizens--A Vital Part of Transportation Planning, Arnold M. Cogan and Wallace A. Dela Barre, TN: TE1:Feb 74:289:10311
The Civil Engineer in Aerospace, Task Committee on Civil Engineering in Space of the Committee on Space Facilities of the Aero-Space Transport Division, Stewart W. Johnson, Chmn., TE2:May 71:247:8124
A Civil Engineer's Guide to EXPO 70, Shunta Shiraishi and Yuzo Matsui, CE:Mar 70:43
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72: 823:9319
The Comprehensive Plan in Transportation Planning, Kurt W. Bauer, TE3:July 70:421:7493

Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, TE4:Nov 74:943:10936

Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570

Computer Model for Highway Noise Prediction, Kenneth E. Nelson and Joseph L. Schofer, TE2: May 74:325:10517

Construction Cost of Expressways, Barbara A. Huvane, TE2:May 71:173:8113

Contributions of the Federal-Aid Highway Program, Francis C. Turner, CE:June 70:71

Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1: Feb 72:17:8695

Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331

Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72: 311:8858

Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4: Nov 72:807:9320

Designing Arterial Streets for Safety, Laurence A. Dondanville, TE1:Feb 71:43:7885

Designing Fail-Safe Structures of Highway Safety, Flory J. Tamanini, TE2:May 71:305:8150

Designing Transportation for People, James M. Beggs, MTI:May 72:7

Design Requirements for Safer Highway Bridge Rails, Robert M. Olson, Edward R. Post and Don L. Ivey, TE2:May 71:291:8125

Developing an Improved Traffic Operations Program, Peter A. Mayer, TE2:May 71:263:8099

Dsc, Does Rail Transit Make Sense?, CE:Feb 74:89

The Driver and the Road, Donald L. Woods, TE4: Nov 71:609:8513

Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72: 1005:9363

Ecological Assessment of Transportation Alternatives, Jason M. Cortell and Donald A. Yonika, UT73:May 73:143

Effect of Coating on Thermal Conductivity of Pipes, P. Mahmoodi, TE1:Feb 70:71:7102

Effect of Load Placement on Rigid Pavement Behavior, Harvey J. Treybig, William Ronald Hudson and B. Frank McCullough, TE4:Nov 71: 681:8543

Effect of Pipeline Junctions on Water Hammer Surges, Don J. Wood and Shen P'eng Chao, TE3: Aug 71:441:8296

Effect of Transportation Planning on Flood Plain Management, Thomas M. Lee, HY3:Mar 72:475: 8761

Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558

Engineering Policies, Politics, and Pragmatism, Robert F. Baker, TE1:Feb 74:121:10320

The Environmental Capacity of Roadway Networks, Robert J. Maxman and Carl P. Sharpe, UT73:May 73:237

Environmental Factors in Passenger Terminal Design, John J. Fruin, TE1:Feb 72:89:8734

Estimation of Climatic Parameters for Frost Depth Prediction, Lyle K. Moulton and James H. Schaub, TE4:Nov 69:605:6872

Estimation of Deep Freezing Indices, George McCormick, TE3:Aug 71:401:8276

Estimation of Pavement Surface Freezing Indices, Lyle K. Moulton and James H. Schaub, TE4:Nov 69:587:6871

Evaluating Regional Plans and Community Impacts, Joseph L. Schofer and Darwin G. Stuart, UP1:Mar 74:93:10412

Evaluating Transportation Systems, Robert N. Young, William C. Ockert and Charles E. Pixton, TE2:May 71:347:8131

Evaluation of New Systems For Urban Transportation, Reed H. Winslow and Jerry L. Pfeffer, TE4:Nov 72:757:9354

Experiences with Interdisciplinary Teams, Norman M. Klein, ABS:71:83

Express Bus Mass Transit, Joseph Barnett, TE2:May 70:133:7256

Expressway Rapid Transit, George Krambles, TE4: Nov 72:1023:9388

FHWA Traffic Research Program, Carl F. Izzard, TE2:May 71:333:8133

First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57

Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921

Forty Years of Engineered Construction, Hal W. Hunt, CE:Oct 70:57

Four-Day Week and Transportation, Vincent R. Desimone, TE3:Aug 72:705:9116

Future Transportation Planning for People by UMTA, Carlos C. Villarreal, MTI:May 72:17

Gallatins's Report: A Transportation Plan For The United States, Neal FitzSimons, CE:Apr 70:76

GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shemsul A. Akhand, TE3:Aug 74:593:10717

Gate Arrival Terminal for Kansas City MCI Airport, Edwin Joe Runyan, TE2:May 69:229:6532

Goals and Objectives, Elizabeth J. McLean and Martin E. Goldsmith, MTI:May 72:267

Goods Movement on Urban Transit Systems, John J. Fruin, TE3:Aug 72:617:9139

Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71

Grouping Algorithms for Statewide Loadmeter Surveys, Shiva K. Pant and Frederick J. Wegmann, TE3:Aug 71:421:8288

The Highway Explosion, Albert A. Bartlett, CE:Dec 69:71

Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment, Thomas A.L. Paton, PWS:Nov 72:81

Horizontal Versus Vertical Transportation, George R. Strakosch, TB:73:Ia-2-375

Houston Airport's Low Cost People-Mover, Hal K. Puckett and James C. Williamson, TE1:Feb 74:255: 10330

Illinois Central Suburban Automated Revenue Collection System, Leonard A. West, TE1:Feb 71: 117:7872

Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906

Impact of Rail Transit on Bus Operations, Richard H. Pratt, TE1:Feb 71:31:7881

Implications of Using Layered Theory in Pavement Design, John P. Nielsen, TE4:Nov 70:495:7662

Improving Airport Gate Usage with Critical Path, John P. Braaksma and John H. Shortreed, TE2: May 71:187:8090

Improving Urban Bus Operations, Michael G. Ferreri, TE3:Aug 70:319:7465

Information System in Transportation Facilities, Paul Arthur, MTI:May 72:99

Initial Economic Evaluation of Slurry Pipeline Systems, E. J. Wasp, T. L. Thompson and T. C. Aude, TE2:Apr 71:271:8106

Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101

Integrated Measurement Framework for Transportation Planning, George C. Wickstrom, TE2:May 72:275:8910

Integrating the Airport into the Community Plan, Joseph A. Foster, TE2:May 69:279:6530

Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65

International Challenge to Airports, Kenneth K. Wilde, TE3:Aug 70:269:7455

Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742

Investing in Urban Bicycle Facilities, Richard C. Podolske, TE3:Aug 74:687:10742

Is Joint Development the Chicken, or the Egg?, Constantine Sidamon-Eristoff, TE3:Aug 71:469: 8315

Issues in Statewide Transportation Planning, Joseph S. Drake and Lester A. Hoel, TE3:Aug 70:379:7480

Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376

Learning Games: The Transportation Planning Game, Martin C. Nizlek and Frederick J. Wegmann, TE1: Feb 74:41:10339

Let's Make the Needs Known so Someone Will Do Something About Them, Lawrence D. Dahms, NA: Mar 71:1

Let The Spoken For Be Heard, CE:Sept 73:118

Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953

List of Information Sources for Airport Planners, Robert K. Palmer, TE1:Feb 72:131:8721

Local Legislation and Its Impact on Transportation, Fred C. Hart, UT73:May 73:63

Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340

Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705

Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740

Markov Renewal Model of Linked Trip Travel Behavior, Gorman Gilbert, George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112

Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350

Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514

Model for Planning a Transportation System, Frank A. Tillman, TE2:May 70:229:7289

Modern Applications of Traffic Control Devices, John A. Bruce, TE1:Feb 71:153:7906

Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541

Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096

Municipal Considerations in Transportation Planning, Richard B. Robertson, TE1:Feb 69:1:6378

New Highway Bridge Dimensions for Safety, John N. Clary, TE2:May 71:371:8152

New Triangle in Commuter Service, Harold Wanaselja, TE3:Aug 71:501:8338

Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382

Noise Control in Urban Planning, Clifford R. Bragdon, UP1:Mar 73:15:9590

Novel Features on Lindenwold Line, Richard E. Pinkham, TE2:May 72:367:8892

No Wait Nonstop Pneumatic Tired Transit System, Vincent H. Larson, TN: TE1:Feb 72:161:8689

The Numbers Game, Arnold H. Vollmer, UT73:May 73:77

Open Space Accessibility for Recreation, Lawrence D. Mann, UP2:Dec 71:207:8607

Optimal Selection of Flexible Pavement Components, Salim S. Hejal, Thomas R. Buick and Joseph C. Oppenlander, TE2:Feb 71:1:7877

Optimizing Bus Use of Urban Highways, Herbert S. Levinson and William F. Hoey, TE2:May 74:443: 10558

Optimizing the Supply of Inland Water Transport, John F. Hoffmeister, III and Richard de Neufville, WW3:Aug 73:293:9926

Optimizing Traffic Flow on Existing Street Networks, Wesley La Baugh, TE2:May 71:353:8135

Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73: 725:10126

Origin, Purpose, and Status of Project, Robert A. Nelson, TE4:Nov 70:439:7655

Overall Planning of the Bay Area Rapid Transit DistrictProject, David G. Hammond, TE2:May 69: 347:6548

Overview of Transportation Legislation, Richard E. Briggs, PP3:July 73:381:9883

Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900

Patterns of Mobility of Working Poor, Arthur Saltzman and Alice E. Kidder, TE3:Aug 74:769: 10760

Pavement Design and Staging for Mayan Roads, Allen F. Lubina and Robert N. Panfill, TE4:Nov 71:651:8516

Pavement Evaluation and Design for Jumbo Jets, Bernard A. Vallerga and B. Frank McCullough, TE4:Nov 69:639:6895

Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63

Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539

Plan for Financing Urban Mass Transit Systems, Robert T. Howe, TE2:May 70:219:7286

Planning Airports System in Paris Area, Jacques V. Block, TE2:May 69:253:6535

Planning and Engineering by Agency-Consultant Team, Louis W. Riggs, UP2:Oct 70:105:7585

Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928

Planning for Memphis Medical Center Traffic and Parking, Wm. H. Claire and Randall A.P. Johnson, TE1:Feb 71:51:7882

Planning for Satellite Airports, Walter Gelerman and Richard de Neufville, TE3:Aug 73:537:9951

Planning for the Metro, Thomas B. Deen, TE3:Aug 70:349:7476

Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909

Planning's Role in Standards for Future Highways, Ralph D. Brown, Jr., TE2:May 71:227:8129

Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123

Power Supply for the BART System, J. George Thon and Martin W. McLaren, TE1:Feb 69:97:6411

Practical Applications of Codes in Construction of Pipelines, David R. Williams, Jr., TE4:Nov 70:471: 7657

Prefabricated Highways, William Zuk, TE2:May 72: 387:8895

Pricing in Mass Transportation, Masatoshi A. Abe and Kumares C. Sinha, TE1:Feb 73:83:9551

Private Engineering in Public Works, William A. Bugge, TE1:Feb 69:67:6396

Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571: 9960

Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087

Proposed Transportation and Visitor Center, Robert W. Harris, TE3:Aug 70:301:7459

Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487

Public Attitude Toward Transportation Issues, H. Richard Orth and Walter Cherwony, TE3:Aug 70: 365:7478

Public Participation in the I-66 Corridor Transportation Alternates Study, John P. Fowler, II, UT73:May 73:11

Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351: 8888

Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517

"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495

"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73: 59

Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747

Reexamination of Transportation Planning, Raymond H. Ellis, TE2:May 73:371:9752

Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59

Remote Nozzle Permits High Production and Safety, James S. Goff, SUSS:July 73:405

Research Programs on Pipeline Crossings, William F. Quinn, TE3:Aug 70:283:7457

Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883

Revolution in Urban Highway Planning, ASCE Committee on Highway Planning and Economics of the Highway Division, Dana E. Low, Chmn., TE1: Feb 71:145:7916

Role of Government in Public Works, Peter Corradi, PWS:Nov 72:187

Role of Government in Public Works Development, William Harris, Sir, PWS:Nov 72:167

San Francisco Freeway Revolt, William H. Lathrop, Jr., TE1:Feb 71:133:7876

Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379

Schedule Planning and Timetable Construction for Commuter Railroad Operations, Edward K. Morlok and Hugo L. Vandersypen, TE3:Aug 73:627:9922

Selected Approaches to Environmental Impact Evaluation of Regional Alternatives, Salvatore J. Bellomo and Sally D. Liff, UT73:May 73:273

Selected Bus Demonstration Projects, Louis J. Pignataro, John C. Falcocchio and Roger P. Roess, TE3:Aug 70:251:7454

Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942

Service Volumes for Functional Classification, Thomas R. Bright, TE4:Nov 70:561:7671

Simulation of Waterway Transport Systems, Joseph L. Carroll and Michael S. Bronzini, TE3:Aug 71:527:8311

Sizing Pedestrian Queueing Areas, Peter A. Fausch, MTI:May 72:113

Social Considerations of Urban Transportation Systems, Robert L. Morris, TE3:Aug 70:333:7471

Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750

Soil-Cement Bases Under Thin Bituminous Surfacing, Boniface C. Obi, TE2:May 72:167:8871

A Statement of National Highway Transportation Policy, by the Committee on Transportation Policy of the Tranportation Engineering Coordinating Committee, Harold W. Hansen, Chmn., TE3:Aug 69:399:6717

State of the Art-Urban Transportation Systems, Donald O. Eisele, TE3:Aug 69:439:6729

The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700

Statewide Transportation Planning, Frederick J. Wegmann and Everett C. Carter, TE2:May 73:323:9734

Statistical Analysis of Continuous Data Records, Ross B. Corotis, TE1:Feb 74:195:10362

STOL Aircraft Flight and Landing Area Considerations, John M. Riebe, TE2:May 73:339:9743

STOL Passenger Demand in Underdeveloped Areas, Jason C. Yu, TE3:Aug 71:475:8298

Structural Design of Concrete Pavement by Computer, Cloyd E. Warnes, TE1:Feb 72:1:8698

Superconducting Levitation of High Speed Vehicles, Vincent D. Arp, Alan F. Clark and Thomas M. Glynn, TE4:Nov 73:873:10163

Survey of Ground-Access Problems at Airports, Reginald J. Sutherland, Chmn., TE1:Feb 69:115:6415

Systems Approach to Choice in Transport Technology, Edward J. Ward, TE4:Nov 70:455:7656

Systems Approach to Petroleum Site Selection, William S. Gaither and John Patrick Sides, WW3:Aug 69:395:6750

Systems Innovations for Urban Transportation, Robert A. Burco and Clark D. Handerson, TE2:May 71:205:8126

Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91

Technology and Decisions in Airport Access, Robert F. Baker and Raymond M. Wilmotte, 1970, 152 pp.

Test of Air Cushion Vehicles in Public Transport, John L. Lambert, TE1:Feb 69:29:6391

Theoretical Analysis of Interchange Composition, Ken-ichi Takebe, TE:Aug 69:483:6737

Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4:Nov 72:799:9362

Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555

Traffic Volume Characteristics of Urban Freeways, Kenneth W. Heathington and Paul R. Tutt, TE1:Feb 71:105:7921

Transients in Pipelines Carrying Liquids or Gases, Victor L. Streeter, TE2:Feb 71:15:7884

Transit Marketing in Chicago, George Krambles, TE2:May 71:361:8134

Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735

Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592

Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341

Transportation Education and Research: A Multidisciplinary Approach, C. Michael Walton and William Ronald Hudson, CEE:Feb 74:1-200

Transportation in Regional Plan for 1970's, W. John Hossack and J. Richard Hocking, TE4:Nov 70:633:7648

Transportation Model Applied to Landfill Design, Robert B. Conrad and E. Kenneth Hoffman, EE3:June 74:549:10575

Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949

Transportation R&D By Private Enterprise, Robert V. Emling, TE4:Nov 70:591:7668

Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369

Transportation Research Needs in Civil Engineering, Robert F. Baker, TE3:Aug 71:541:8343

Transportation-Role for Civils, Wilbur S. Smith, TE1:Feb 69:111:6414

Transporting Equipment for Grand Coulee Third Plant, Harold G. Arthur, PO2:Nov 68:125:6226

Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955

Turn Penalty Effects on Minimum Time Paths, Donald L. Woods, J. T. Brudeseth and Vergil G. Stover, TE4:Nov 69:659:6896

Two Means of Alleviating Rush-Hour Crowding, Charles Libove, TE4:Nov 73:845:10144

An Uncommon View of the Ground Transportation Problem, Martin Wohl, TE1:Feb 69:143:6417

Urban Goods Movement Planning Methodology, Arnim H. Meyburg, Walter J. Diewald and Garrison P. Smith, TE4:Nov 74:791:10914

Urban Gravity-Vacuum Transit System, Lawrence K. Edwards, TE1:Feb 69:173:6423

Urban Mass Transportation: Review and Analysis, Stewart F. Taylor and Louis W. Petulla, TE2:May 70:175:7277

Urban Riverside Environmental Analysis, J. Robert Moore, UP1:Apr 71:105:8066

Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316

Urban Transportation, Murray A. Muspratt, TN: TE1:Feb 73:193:9529

Use of Air Rights over Urban Expressways, Thomas F. Airis, TE2:May 69:357:6550

User Oriented Approach to Housing Design for Indians, Richard D. Bauman and Arn Henderson, UP1:Mar 74:29:10384

Variable Speed Walkways, Ralph W. Blevins, Victor J. Dietz and Richard D. Burson, MTI:May 72:347

Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3:Aug 72:715:9124

Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2:May 72:285:8914

V/STOL Concepts for Short Haul Air Transport, Bernard L. Fry and R. William DeDecker, TE3:Aug 71:411:8277

Welcoming Statement — Subsurface Exploration for Heavy Construction, Russell K. McFarland, EFSE:Aug 74:2

West Virginia Commercial Air Trip Generations, Dennis C. Judycki, Frederick J. Wegmann and Everett C. Carter, TE2:May 70:185:7281

What Have Transit Demonstrations Really Shown?, Calvin O. Smith, TE2:May 71:325:8097

What Should Civil Engineering Education Accomplish?, Elmer K. Timby, CEE:Feb 74:1-302

Wind Loading on Free-Swinging Traffic Signals, James F. Marchman, III, TE2:May 71:237:8140

The 1970's: Civil Engineering Forecast-Part III, Kneeland A. Godfrey, Jr., CE:July 70:51

Transportation Management
The Economics and Importance of Speed, Herbert S. Levinson, HW1:June 68:1:5972
Four-Day Week and Transportation, Vincent R. Desimone, TE3:Aug 72:705:9116
Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366

Transportation Models
Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
Learning Games: The Transportation Planning Game, Martin C. Nizlek and Frederick J. Wegmann, TE1: Feb 74:41:10339
New Criterion for Resource Scheduling, E. M. Davies, TE4:Nov 73:741:10118
Prestressed Pipe for Power Site in New Zealand, Robert H. Weight, A. Max Jensen and A. M. McConnell, PO2:Nov 68:143:6229
Synthetic Through Trip Patterns, David G. Modlin, Jr., TE2:May 74:363:10526
Transportation Research Needs in Civil Engineering, Robert F. Baker, TE3:Aug 71:541:8343
Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3: Aug 72:715:9124

Transport Theory
Horizontal Versus Vertical Transportation, George R. Strakosch, TB:73:Ia-2-375

Transverse Strength
Irregular Supports and Skew Diaphragms of Box Girders, Vladimir Kristek, ST5:May 74:917:10541
Tapered Box Girders of Deformable Cross Section, Vladimir Kristek, ST8:Aug 70:1761:7489
Transverse Anisotropy In Disks And Plates, Sridhara D.N. Murthy and Archibald N. Sherbourne, TN: EM4:Aug 72:1005:9082

Transverse Waves
Water Waves Produced by Ships, Robert M. Sorensen, WW2:May 73:245:9754

Trashracks
Flow-Induced Vibrations of Trashrack Bars, Joseph W. Fortey and Robert F. Tiry, CE:May 72:44
Hydroelectric Power Plant Trashrack Design, Lloyd E. Sell, PO1:Jan 71:115:7819
Mechanical Equipment Problems on Old Dams, Fred Engstrom, IMROD:Sept 73:440
Rectangular-Bar Trashrack and Baffle Headlosses, John F. Orsborn, PO2:Nov 68:111:6223

Travel
Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
Homogeneity Analysis and Planning Studies, Robert E. Paaswell, UP2:Dec 71:125:8561
Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73: 59:9493

Traveling Waves
Case History -- Embankment Failure on Soft Varved Silt, Richard S. Haupt and James P. Olson, PES:72: I-1

Travel Time
Demand Model for Intercity Multimode Travel, Jason C. Yu, TE2:May 70:203:7282
Estimating Travel Times on Highway Networks, Joseph M. Sussman, Ho-Kwan Wong and Roger Miller, TE1:Feb 74:13:10335
Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923

Traverses
Adjustment of Traverses, Robert P Vreeland, SU1: Oct 69:25:6816

Treatment
Combined Sewer Overflows, Richard Field, CE:Feb 73:57

Trees
Turn Penalty Effects on Minimum Time Paths, Donald L. Woods, J. T. Brudeseth and Vergil G. Stover, TE4:Nov 69:659:6896
Use of Trees as Bench Marks in Expansive Clays, Robert Davis and Richard Tucker, TN: SU1:Sept 73:149:10017

Tremie Concrete
Novel Construction Concept for Raw-Water Intake, Carlton T. Wise and Doyle D. Gillespie, CE:June 71:43

Trenches
Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72: 2329:9325
Density Studies of Cohesive Trench Backfills, Van A. Silver, Henry M. Reitz and Richard C. Huning, TN: SM2:Mar 70:789:7117
The Performance of a Subway Excavation, T. William Lambe, L. Anthony Wolfskill and Walter E. Jaworski, PES:72:I-1403
Stability of Slurry Trench Cuts in Saturated Clay, George G. Meyerhof, PES:72:I-1451

Trenching
Hydraulic Trenching of Submarine Pipeline, H. Ivan Schwartz, TN: TE4:Nov 71:723:8489
Slurry-Trench Construction for Basement of World Trade Center, Martin S. Kapp, CE:Apr 69:36

Trends
Civil Engineering Practice - Overview and Current Trends, Charles W. Yoder, CEE:Feb 74:2-11
Currents in Civil Engineering Education, Russel C. Jones, CEE:Feb 74:2-90
Emerging Trends in Construction Education - Summary Statement and Overview, Paul W. Scheele, CEE:Feb 74:2-104
Promising Trends in Continuing Education - Programs Available, Alfred C. Ingersoll, CEE:Feb 74:2-149
Promising Trends in Education in Public Works Engineering, Herbert A. Goetsch, CEE:Feb 74:2-114
Promising Trends in Interchange between Education and Practice, David A. Novick, CEE:Feb 74:2-180
Trends in Engineering Education (Discussion), Richard M. Collins, CEE:Feb 74:2-336
Trends in Environmental Engineering Education, Robert M. Sykes, CEE:Feb 74:2-138
Trends in Faculty Qualifications and Objectives, Dan H. Pletta, CEE:Feb 74:2-168

Trial-Load Method
An Induced Failure at a Trial Embankment At King's Lynn, Norfolk, England, P. F. Wilkes, PES: 72:I-29
An Induced Failure at a Trial Embankment: Part II Finite Element Computations, C. P. Wroth and B. Simpson, PES:72:I-65

Triangulation
Aerotriangulation Precision Attainable for Highway Photogrammetry, Michael C.Y. Hou, SU1:May 74: 7:10527
Analytical Plotter System, James R. Skidmore, SU2: Sept 70:253:7559
Comprehensive Unified Land Data System, Robert N. Cook, SU1:Oct 69:103:6851
Computer Programs for Strip Aerotriangulation, Kam W. Wong, SU1:Oct 69:71:6822
Computer Program System for Aerotriangulation, Kam W. Wong and G. Elphingstone, SU2:Nov 72: 219:9322
Control Surveys for Major Bridges, Normand L. Moore and Richard G. Begell, SU1:May 71:83:8098
Electronic Traverse Versus Triangulation, John O. Phillips, SU2:Oct 67:29:5491

Fifty Years in Surveying-Mapping-and the Future, George D. Whitmore, SU1:Oct 69:143:6860

Geodetic Computations by Electronic Computer, Gerald F. Clohecy, SU1:May 71:97:8105

Measured Deformation Behavior of Glen Canyon Dam, Joe T. Richardson, SU2:Sept 68:149:6097

Modified Methods in Numerical Radial Triangulation, Paul R. Wolf and Lloyd T. Bartlett, SU1:Sept 73:121:10028

Photogrammetric Surveying in Highway Programs, James E. Newman, SU2:Nov 71:297:8539

Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79:9976

Regional Control Supplied by Photogrammetry, G. Carper Tewinkel, SU1:May 71:13:8136

Rounds Versus Positions, Mohamed F. Madkour, SU1:Oct 69:151:6862

Surveying and Mapping from Orbital Platforms, Kam W. Wong, SU1:May 74:15:10529

Triaxial Compression

Engineering Properties of a Pennsylvania Shale, Gholamreza Mesri and Rocco Gibala, RM13:72:57

Experimental Study of Frictional Properties of Faults, Fred A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189

Faulting Across Discontinuities in Anisotropic Rock, Fred A. Donath, RM13:72:753

Large Scale Triaxial Tests on Rock, Madan M. Singh and Peter J. Huck, RM14:73:35

Mechanical Properties of a Sand-Ice System, Roy R. Goughnour and Orlando B. Andersland, PISST:71:287

Strain Conditions in Compression Cylinder, William M. Kirkpatrick and J. Scott Younger, SM5:Sept 70:1683:7504

Stress-Strain Properties of Compacted Clays, David E. Daniel and Roy E. Olson, GT10:Oct 74:1123:10869

Triaxial Shear

A Direct-Reading Pocket Shear Vane, Stanley Serota and Anil Jangle, CE:Jan 72:73

Methods of Performing and Interpreting In Situ Shear Tests, Michael L. Haverland and Edward J. Slebir, RM13:72:107

Triaxial Tests

Aging Effects on Swell Potential of Compacted Clays, Gabriel Kassiff and Raphael Baker, SM3:Mar 71:529:7951

Analysis of Observed Embankment Performance in Terms of Effective Stress, Koichi Akai, Masahiko Komatsu and Masanari Tominaga, PES:72:I-341

Analysis of the Triaxial Test for Granular Soils, Paul R. Paslay and Jay B. Weidler, EM3:June 69:587:6611

Behavior of Single Mineral Soils in Triaxial Shear, Robert M. Koerner, SM4:July 70:1373:7432

Capacitance Techniques For Radial Deformations, Adolph G. Altschaeffl and Louis P. Mishu, TN: SM4:July 70:1487:7387

Comparison of Plane Strain and Triaxial Tests on Sand, Kenneth L. Lee, SM3:May 70:901:7276

Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793:10057

Drained Strength Characteristics of Sands, Kenneth L. Lee and H. Bolton Seed, SM6:Nov 67:117:5561

Dynamic Behavior of Rocks to Spherical Stress Waves, R. P. Swift and M. W. McKay, RM13:72:797

Effect of Particle Characteristics on Soil Strength, Robert M. Koerner, SM4:July 70:1221:7393

Effect of Strain History on Liquefaction of Sand, W. D. Liam Finn, Peter L. Bransby and Dennison J. Pickering, SM6:Nov 70:1917:7670

Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672

Experimental Study of Frictional Properties of Faults, Fred A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189

Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Faulting Across Discontinuities in Anisotropic Rock, Fred A. Donath, RM13:72:753

Fracture and Stress-Strain Relationship of Concrete Under Triaxial Compression, Ranga Palaniswamy and Surendra P. Shah, ST5:May 74:901:10547

Large Scale Triaxial Tests on Rock, Madan M. Singh and Peter J. Huck, RM14:73:35

Membrane For Rockfill Triaxial Testing, Clarence K. Chan, TN: SM8:Aug 72:849:9085

Membrane Penetration in Triaxial Tests on Sands, Vegesna S. Raju and Sekanoor K. Sadasivan, TN: GT4:Apr 74:482:10454

Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610

New Approach to Multistage Triaxial Test, Asuri Sridharan and Savaram Narasimha Rao, TN: SM11: Nov 72:1279:9312

Nonlinear Analysis of Stress and Strain in Soils, James M. Duncan and Chin-Yung Chang, SM5: Sept 70:1629:7513

One Dimensional Consolidation in Triaxial Cell, Adel S. Saada, TN: SM3:May 70:1085:7253

Pore Pressure in Saturated Stiff Soils, Anwar E.Z. Wissa, SM4:July 69:1063:6670

Repeated Load Testing of a Granular Material, Stephen F. Brown, GT7:July 74:825:10684

Review of Shearing Strength of Rockfill, Thomas M. Leps, SM4:July 70:1159:7394

Sand Liquefaction In Triaxial and Simple Shear Tests, W. D. Liam Finn, Dennison J. Pickering and Peter L. Bransby, SM4:Apr 71:639:8039

Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73:75:9484

The Significance of Cap and Base Restraint, James M. Duncan and Peter Dunlop, SM1:Jan 68:271:5768

Significance of Variably Confined Triaxial Testing, John J. Allen and Marshall R. Thompson, TE4:Nov 74:827:10911

Strain Conditions in Compression Cylinder, William M. Kirkpatrick and J. Scott Younger, SM5:Sept 70:1683:7504

Strength of Compacted Clay at High Pressure, Kenneth L. Lee and Steven C. Haley, SM6:Nov 68:1303:6239

Strength of Compacted Clay at High Pressure, Kenneth L. Lee and Steven C. Haley, PISST:71:345

Stress-Controlled Apparatus for Triaxial Testing, Adel S. Saada, SM6:Nov 67:61:5555

Stress Distributions in Triaxial Compression Samples, William M. Kirkpatrick, Roger K. Seals and F. Barry Newman, TN: GT2:Feb 74:190:10310

Stress-Strain Properties of Compacted Clays, David E. Daniel and Roy E. Olson, GT10:Oct 74:1123:10869

A Study of Bulk and Shear Moduli of a Sand, Leonard Domaschuk and Neil H. Wade, SM2:Mar 69:561:6461

Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728

Triaxial and Plane Strain Behavior of Natural Clay, Yoginder P. Vaid and Richard G. Campanella, GT3:Mar 74:207:10421

Undrained Strength of Compacted Clay, Kenneth L. Lee and Robert J. Shubeck, SM1:Jan 71:219:7833

Volume Changes in Triaxial and Plane Strain Tests, W. D. Liam Finn, Neil H. Wade and Kenneth L. Lee, SM6:Nov 67:297:5611

Yield and Failure of a Clay Under Triaxial Stresses, Raymond N. Yong and Edward McKyes, SM1:Jan 71:159:7790

Trickle Irrigation

Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957

Designing Trickle Irrigation Laterals for Uniformity, Terry A. Howell and Edward A. Hiler, IR4:Dec 74:443:10983

Trickle Irrigation Design Requirements for Row Crops, Dale A. Bucks, IR73:Aug 73:673

Uniform Irrigation with Low-Pressure Trickle Systems, Lloyd E. Myers and Dale A. Bucks, IR3: Sept 72:341:9175

Water Use and Production of Trickle Irrigated Onions, Theodore C. Patterson, IR73:Aug 73:317

Trickling Filters

Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72: 287:8819

Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191

Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974

Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938

Pilot Plant Testing for Municipal Sewage Treatment, Robert C. Moore, SA2:Apr 70:573:7242

Substrate Removal Mechanism of Trickling Filters, Bruce E. Jank and W. Ronald Drynan, EE3:June 73:187:9769

Trigonal Lattices

Temperature Effects in Flows over Nonplanar Beds, Brent D. Taylor, HY12:Dec 74:1785:11015

Trip Length

Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152

Estimating Potential Bicycle Use and Public Investment, Carl E. Ohrn, BP73:Dec 73:582

Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750

User-Optimized Traffic Assignment, Frank J. Hatfield, TE2:May 74:313:10519

Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3: Aug 72:715:9124

Tropical Clothing

Dredging Fundamentals, John Huston, WW3:Aug 67: 45:5390

Tropical Cyclones

Distributions of Extreme Winds Over Oceans, Herbert C.S. Thom, WW1:Feb 73:1:9556

Tropical Deterioration

Slope Stability in Tropically Weathered Diorite, Andrew H. Merritt, RM13:72:625

Tropical Diseases

Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994

Truck Convoys

Increase Fleet Productivity and Decrease Unit Production Costs, Omar E. Rood, Jr., CE:July 74: 84

Trucks

Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570

Increase Fleet Productivity and Decrease Unit Production Costs, Omar E. Rood, Jr., CE:July 74: 84

"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495

Truck escape lanes on mountain roads, Glenn S. Baldwin, CE:July 74:64

Urban Commodity Flow - Suggested Research Projects, Warren B. Lovejoy, UP1:July 72:55:9047

Trusses

Analysis For Truss Buckling, Donald L. Dean and Frederick R. Jetter, TN: ST8:Aug 72:1893:9086

Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, ST1:Jan 74: 175:10289

Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795

Behavior of Howe, Pratt, and Warren Trusses, John D. Renton, ST2:Feb 69:183:6388

Buckling of Rigidly-Jointed Plane Trusses, Adel Helmy Salem, ST6:June 69:1271:6628

Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Discrete Structural Optimization, Kenneth F. Reinschmidt, ST1:Jan 71:133:7829

Finite-Element Analysis of Nonlinear Structures, Robert H. Mallett and Pedro V. Marcal, ST9:Sept 68:2081:6115

Geometrically Nonlinear Analysis by Stiffness Method, James A. Stricklin, Walter E. Haisler and Walter A. Von Riesemann, ST9:Sept 71:2299:8392

Lateral Stability of Plane Open-Web Structures, P. C. Varghese, ST11:Nov 74:2223:10924

Lateral Stability of Welded Light Trusses, John A. Hribar and William P. Laughlin, ST3:Mar 68:809: 5873

Machine Stress Rated Lumber: Challenge to Design, William L. Galligan and Delos V. Snodgrass, ST12: Dec 70:2639:7772

Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043: 9195

Minimum Weight Design of Stress Limited Trusses, Behrooz Farshi and Lucien A. Schmit, Jr., ST1:Jan 74:97:10259

Newport Bridge Superstructure, Alfred Hedefine and Louis G. Silano, ST11:Nov 71:2653:8533

Nonlinear Analysis of Cable and Truss Structures, Frank Baron and Mahadeva S. Venkatesan, ST2: Feb 71:679:7937

Nonlinear Analysis of Pin-Jointed Space Trusses, Marcelo Epstein and Yair Tene, ST9:Sept 71:2189: 8357

Nonlinear Analysis of Space Trusses, Ahmed K. Noor, ST3:Mar 74:533:10419

Nonlinear Elastic Truss Analysis Partitioning, N. M. Singaraj and Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364

Nonlinear Structural Analysis by Energy Search, Robert H. Mallett and Lucien A. Schmit, Jr., ST3: June 67:221:5285

Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199

Optimization of Redundant Prestressed Structuree, Leonard Spunt, ST12:Dec 70:2589:7755

Optimization of Truss Geometry, Michael W. Dobbs and Lewis P. Felton, ST10:Oct 69:2105:6797

Optimum Design of Trusses for Ultimate Loads, William S. LaPay and George G. Goble, ST1:Jan 71:157:7838

Optimum Design of Truss Structures For Ultimate Loads, William S. LaPay and George G. Goble, EC5:70:223

Optimum Elastic Design of Redundant Trusses, David Johnson and Derick M. Brotton, ST12:Dec 69:2589:6938

Post-Buckled Strength of Large Space-Truss, John P. Wolf, TN: ST:July 73:1708:9828

Roof Assembled on Ground, Hoisted into Place, Werner Blum and Philip Wesler, CE:Jan 74:44

School Buildings Feature Polygon Shape, German R. Gurfinkel, CE:Dec 70:31

Stability of Trusses Subjected to Ponding Loads, Ta Chao, TN: ST6:June 73:1327:9767

Staggered Truss Building System, Harold P. Bakke, Lawrence A. Kloiber and Albert C. Nuhn, CE:Nov 69:56

Structural Timber Research at Forest Products Lab, Fred Werren, ST12:Dec 69:2891:6980

Systems Approach to Building, James R. Cagley, CE: Apr 73:59

Weight Optimization of Plane Trusses, Samuel L. Lipson and Krishna M. Agrawal, ST5:May 74:865: 10521

Tsunamis

Head Loss at Tsunami-Breakwater Opening, Yoshiyuki Ito, 12CEC:71:2123

Laboratory Study for Design of Tsunami Barrier, Adel M. Kamel, WW4:Nov 70:767:7669
Numerical Model for Tsunami Run-Up, Kenneth L. Heitner and George W. Housner, WW3:Aug 70: 701:7491
Shoaling of Finite-Amplitude Waves on Plane Beaches, Robert K. C. Chan and Robert L. Street, 12CEC:71:345
Structural Damage from Tsunami at Hilo Hawaii, Lymon C. Reese and Hudson Matlock, HY4:July 68:961:6037
Tide Gage Frequency Response, Ralph H. Cross, III, WW3:Aug 68:317:6072
Tsunami Generation and Propagation, Joseph L. Hammack, Jr. and Fredric Raichlen, CE13:72:III-2577
Tsunami Refraction Diagrams by Digital Computer, Garbis H. Keulegan and John Harrison, WW2:May 70:219:7261
Tsunami-Responses Of San Pedro Bay And Shelf, Basil W. Wilson, CEO-II:70:1099
Tsunami-Responses of San Pedro Bay and Shelf, Calif., Basil W. Wilson, WW2:May 71:239:8107
Tsunamis: Some Laboratory and Field Observations, Fredric Raichlen, 12CEC:71:2103
Water Waves Generated by Landslides, Edward K. Noda, WW4:Nov 70:835:7699
Waves Generated by Horizontal Motion of a Wall, Madan M. Das and Robert L. Wiegel, WW1:Feb 72:49:8707

Tube Joints
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
Stiffening in Tubular Junctions - Some New Concepts, Bharat L. Mehrotra, TN: ST9:Sept 71: 2453:8374
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793

Tubes
Buckling of Soil-Surrounded Tubes, James A. Cheney, EM4:Aug 71:1121:8297
Dynamic Stability of Tube Conveying Fluid, Shoei-sheng Chen, EM5:Oct 71:1469:8420
Elastic Analysis of Frameworks with Elastic Connections, Edgar Lightfoot and Andrew P. Le Messurier, ST6:June 74:1297:10632
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elasto-Plastic Deflection of Tubular Beams, Leon Ru-Liang Wang, ST2:Feb 69:159:6379
Nonconservative Stability by Finite Element, C. D. Mote, Jr., EM3:June 71:645:8204
Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72: 1255:8937
Pressurized Tubes Constrained by Rigid Collars, Furman W. Barton and Thomas H. Dawson, TN: EM3:June 73:9765
Residual Stresses and Tubular Compression Members, Donald R. Sherman, ST3:Mar 71:891: 8001
Sidesway Instability of Unbraced Tube Buildings, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-598
Some Experiments with Sand-filled Flexible Tubes, Per Roed Jakobsen and Arne Hasle Nielsen, 12CEC:71:1513
Steel-Encased Expansive Cement Concrete Column, Vitelmo V. Bertero and Saad E. Moustafa, ST11: Nov 70:2267:7660
Strength of Square-Tube Connections Under Combined Loads, Roger L. Brockenbrough, ST12: Dec 72:2753:9425
Structural Systems, Theme Report, Leslie E. Robertson, TB:73:Ia-3-403
Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130
Tubular Sections in Highway Structures, Richard N. White, HW2:Nov 68:161:6227
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793
Urban Gravity-Vacuum Transit System, Lawrence K. Edwards, TE1:Feb 69:173:6423

Tuff
Landslides in Weathered Volcanics in Puerto Rico, George F. Sowers, 4PCSM:71:II105

Tugboats
Ocean Tug-Barge Systems, Lawrence R. Glosten, WW2:May 72:243:8868
On Acceleration of Barge Tows, Joseph S. DeSalvo, WW2:May 69:121:6545

Tunnel Construction
Continuous Subsurface Profiling by Impulse Radar, Rexford M. Morey, EFSE:Aug 74:213
Engineering Measurements, Eugene L. Foster, EFSE: Aug 74:23
Exploration and Geologic Prediction for Underground Works, Lloyd B. Underwood, EFSE: Aug 74:65
Exploration for Soft Ground Tunnels — A New Approaach, Birger Schmidt, EFSE:Aug 74:84
Geomechanical Instrumentation in Mexico Tunnels, Derek F. Berry, URC:72:51
Keynote Address — Our Last Unexplored Frontier — The Space Beneath Our Feet, Lloyd J. Money, EFSE:Aug 74:10
An Overview of Horizontal-Borehole Geophysical Techniques, Llewellyn A. Rubin, EFSE:Aug 74:233
Predicted and Meausred Displacements for Tunnels, William R. Judd and William H. Perloff, URC:72: 487
Pressurized-Slurry Shields Bore Submarine Tunnels, Takuya Ohira and Shunta Shiraishi, CE:May 72:55
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836
Rock Tunnels to Control Pollution and Flooding, Vinton W. Bacon and William T. Painter, URC:72: 115
State of Practice — Subsurface Investigation for Highway Tunnels, David S. Gedney, EFSE:Aug 74: 36
Survey of Tunnel Portal Construction at U.S. Army Corps of Engineers Projects, Curtis L. Craig and Lawrence R. Brockman, URC:72:167
Underground Excavation: Geologic Problems and Exploration Methods, Andrew H. Merritt, EFSE: Aug 74:56
Use of Shotcrete from the Standpoint of the Designer, Cole R. McClure, SUSS:July 73:18
Use of Shotcrete from the Standpoint of the Contractor, Kirk H. Fox, SUSS:July 73:22

Tunnel Design
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836

Tunnel Diodes
Transmission Line Wave Height Transducer, C. M.G. Zwarts, WAVES:Sept 74:605

Tunneling
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836
Soft-ground Tunneling for Storm Sewer, Henry R. Cooke, CE:Apr 71:61
Soft-Ground Tunneling Technology on the BART Project, Edward W. Peterson and Peter Frobenius, CE:Oct 71:72

Tunneling (Excavation)
Acoustical Holography as a Tool for Geologic Prediction, Ted O. Price, EFSE:Aug 74:172
BART in Operation—Innovations in Rapid Transit, William A. Bugge, TE2:May 74:335:10522
Bureau of Reclamation Shotcrete Design Practices, John W. Morris, SUSS:July 73:153
Concrete Formwork for Washington, D.C. Metro, John J. Bodziuch, CE:July 74:76
Construction Innovations In Reclamation Work, Bernard P. Bellport, CO1:Mar 71:79:7999

Continuous Subsurface Profiling by Impulse Radar, Rexford M. Morey, EFSE:Aug 74:213
Control of Tunneling Machines by "TunneLaser" System, George P. Colson, CE:Feb 70:55
Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555
Development of Tunneling Methods and Controls, Ellis L. Armstrong, CO2:Oct 70:99:7577
Difficult Excavation at Carley Porter Tunnel, Paul J. Varello, CE:June 70:66
Early Age Strength Properties of Shotcrete, Grant L. Anderson and Melvin E. Poad, SUSS:July 73:277
Earth Responses in Soft Ground Tunnelling, Peter M. Rebull, PES:72:I-1517
Energy Required to Break Rock by Percussive Drilling, Kaarlo O. Hakalehto, RM14:73:613
Excavation Quality Control for the NCMC Expansion, John D. Smart and Ronald L. Friestad, RM13:72:643
External 'Shell' Stops Soil Movement and Saves Tunnel, Joseph P. Nicoletti and James M. Keith, CE:Apr 69:72
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845
Geologic Considerations in Shotcrete Design, Edward J. Cording, SUSS:July 73:175
Grouting: Then, Now and Where, J. F. Daly, EFFD: Mar 74:57
How to Cut Underground Construction Costs, R. L. Loofbourow, CE:June 72:85
Hybrid Computer Analysis of Seam Extraction -- Abstract, M. P. Hardy, S. L. Crouch and Charles Fairhurst, RM14:73:749
Hydraulic Elements for USBR Standard Horseshoe Tunnel, Walter W. Hu, TN: TE4:Nov 73:973:10117
Important Ground Parameters in Soft Ground Tunneling, Donald E. Heuer, EFSE:Aug 74:41
Keynote Address, Albert A. Mathews, SUSS:July 73: 3
Keynote Address — Our Last Unexplored Frontier — The Space Beneath Our Feet, Lloyd J. Money, EFSE:Aug 74:10
Laser Alignment Techniques Utilized in Tunneling, Austin Cooney, SU2:Sept 70:229:7545
Longest Vehicular Rock Tunnel in North America, Gilbert A. Bonforte, CE:Oct 74:56
New Horizons in Rock Machanics, H. Reginald Hardy, Jr., Editor and Robert Stefanko, Editor, RM14:73, 785pp.
Opening Remarks — Subsurface Exploration for Heavy Construction, Steven I. Majtenyi, EFSE:Aug 74:8
An Overview of Horizontal-Borehole Geophysical Techniques, Llewellyn A. Rubin, EFSE:Aug 74:233
Practical Aspects of Shotcrete Application, Fernando E. Valencia, SUSS:July 73:114
Prestressed Rock Anchors and Shotcrete for Large Underground Powerhouse, Michel Buro, CE:May 70:60
Quality Control and Application - New Melones Project, Leland A. Case, SUSS:July 73:235
Selection/Design of Shotcrete for Temporary Support, Ronald E. Heuer, SUSS:July 73:160
Settlement Around Shield Driven Tunnels (In Spanish), Jose Tinajero Saenz and Luis Vieitez Utesa, 4PCSM:71:II225
Shotcrete Safety and Environmental Control, Robert C. Bates, SUSS:July 73:130
Shotcrete Support in Rock Tunnels in Scandinavia, Owen S. Cecil, CE:Jan 70:72
Sixty Years of Rock Tunneling in Chicago, Milton Pikarsky, CO2:Nov 71:189:8504
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37
Subway Construction: Management and Costs, Thomas R. Kuesel, CE:Mar 69:60
Summary of Session III - European Shotcreting Practices, Tor L. Brekke, SUSS:July 73:96
Summary of Session II - Shotcrete Applications in the Americas, William A. Maples, SUSS:July 73:58
Summary of Session I - Opening, Charles F. Corns, SUSS:July 73:29
Summary of Workshop A - Shotcrete Construction and Equipment, Harold E. Tibbs, SUSS:July 73:143
Summary of Workshop B - Shotcrete Design, P. L. Boileau, SUSS:July 73:232
A Tale of Three Tunnels, Thomas R. Kuesel, CE:Dec 74:50
Towards an Optimum Solution for Underground Rapid Transit, Marc S. Caspe, TE1:Feb 69:157: 6416
Tunnel Support-Where Does Geology Come In?, John F. Abel, Jr., CE:Feb 70:70
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008
Underground Excavation: Geologic Problems and Exploration Methods, Andrew H. Merritt, EFSE: Aug 74:56
Urban Mass Transportation: Review and Analysis, Stewart F. Taylor and Louis W. Petulla, TE2:May 70:175:7277
Use of Shotcrete for Tunnelling in Difficult Grounds, Pericle Quadrio Curzio, Glauco Barazzoni, Fiorenzo Nobili and Alessio Anselmi, SUSS:July 73:79
Use of Shotcrete from the Standpoint of the Owner, Gordon M. Miner, SUSS:July 73:13
Use of Shotcrete from the Standpoint of the Designer, Cole R. McClure, SUSS:July 73:18
Use of Shotcrete from the Standpoint of the Contractor, Kirk H. Fox, SUSS:July 73:22
Use of Special Cements in Shotcrete, Madan M. Singh and Seymour A. Bortz, SUSS:July 73:200
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72: 235:9173
The Viennese Subway System, Max Ellinger, TB:73: C-P-269
Water-System Expansion Spurs New Tunnel Technology, Maynard M. Anderson, CE:Sept 70:69
Welcoming Statement — Subsurface Exploration for Heavy Construction, Russell K. McFarland, EFSE: Aug 74:2

Tunneling Machines

Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555
Longest Vehicular Rock Tunnel in North America, Gilbert A. Bonforte, CE:Oct 74:56

Tunnel Linings

Analysis of Tunnel Liner-Packing Systems, William P. Dawkins, EM3:June 69:679:6622
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180
Earth Responses in Soft Ground Tunnelling, Peter M. Rebull, PES:72:I-1517
Hydraulic Properties of Small Unlined Rock Tunnels, Seppo Priha, HY4:July 69:1181:6672
Important Ground Parameters in Soft Ground Tunneling, Donald E. Heuer, EFSE:Aug 74:41
Longest Vehicular Rock Tunnel in North America, Gilbert A. Bonforte, CE:Oct 74:56
Precast Concrete Tunnel Linings for Toronto Subway, John V. Bartlett, Ted M. Noskiewicz and James A. Ramsay, CO2:Nov 71:241:8498
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836
Shotcrete Support in Rock Tunnels in Scandinavia, Owen S. Cecil, CE:Jan 70:72
Soft-Ground Tunneling Technology on the BART Project, Edward W. Peterson and Peter Frobenius, CE:Oct 71:72
Subsurface Construction Contracts—A Contractor's View, George A. Fox, CO2:June 74:153:10608

Tunnels

Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
Benefits of Tunnel Measurements, Larry H. Heflin, EFSE:Aug 74:366
Cabin Creek Pumped Storage Hydroelectric Project, Hugh W. Hight, PO1:Jan 71:135:7826
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327

Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1: Feb 73:53:9518

Design of Seismic Joint for San Francisco Bay Tunnel, Walter S. Douglas and Robert Warshaw, ST4:Apr 71:1129:8040

Development of Tunneling Methods and Controls, Ellis L. Armstrong, CO2:Oct 70:99:7577

Discharge Facilities at Hells Canyon Dam, J. T. Gilchrist and D. E. Barclay, PO2:Nov 68:161:6230

Diversion at Portage Mountain Project, Harold K. Pratt, PO3:June 70:349:7346

Early Age Strength Properties of Shotcrete, Grant L. Anderson and Melvin E. Poad, SUSS:July 73:277

Embankment Instrumentation Tunnel Performance, Charles H. Dowding, T. William Lambe and L. Anthony Wolfskill, TN: GT5:May 74:567:10510

Exploration and Geologic Prediction for Underground Works, Lloyd B. Underwood, EFSE: Aug 74:65

Express Bus Mass Transit, Joseph Barnett, TE2:May 70:133:7256

Feasibility of Utility Tunnels in Urban Areas (Book Review), John B.W. Corey, CE:Aug 71:89

Fourth Dimension for Urban Environment, Kenneth E. Sorensen, UP1:Apr 71:91:8064

Gravity and Gradients of Long Tunnels, H. S. Williams, SU1:Oct 69:11:6815

Guide Specifications for Chemical Grouts, W. K. Seaman, SM2:Mar 68:345:5830

Hydraulic Elements for USBR Standard Horseshoe Tunnel, Walter W. Hu, TN: TE4:Nov 73:973:10117

Keynote Address, Albert A. Mathews, SUSS:July 73: 3

Keynote Address — Our Last Unexplored Frontier — The Space Beneath Our Feet, Lloyd J. Money, EFSE:Aug 74:10

Limfjord Tunnel: Precast Sections in Underwater Trench, K. Havno, CE:July 69:59

Movement of Sand in Tunnels, Dagfinn K. Lysne, HY6:Nov 69:1835:6880

On Model Studies for Tunnels in Jointed Rock, Richard E. Goodman, Francois E. Heuze and Gilles J. Bureau, RM14:73:441

Opening Remarks — Subsurface Exploration for Heavy Construction, Steven I. Majtenyi, EFSE:Aug 74:8

Oroville Dam Diversion Tunnels, Cortland C. Lanning, PO2:Oct 67:51:5506

Planning Economical Tunnel Surveys, Bruce J. Thompson, SU2:Nov 74:95:10906

Potrero Hill Slide and Correction, Travis Smith and Raymond H. Forsyth, SM3:Mar 71:541:8004

Practical Aspects of Shotcrete Application, Fernando E. Valencia, SUSS:July 73:114

Predicted and Meausred Displacements for Tunnels, William R. Judd and William H. Perloff, URC:72: 487

Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311

The Remote Airport: A Study of Access Feasibility, David R. Miller, T. Keith Dellaway and William H.T. Holden, TE1:Feb 74:179:10359

Response of Buried Cylinders Encased in Foam, Carl J. Costantino and Eben Vey, SM5:Sept 69:1159: 6769

River Diversion for Boundary Dam, Adolf A. Schilling, PO3:June 70:319:7339

Shotcrete for Structural Rehabilitation, James P. Crawford, SUSS:July 73:367

Shotcrete Safety and Environmental Control, Robert C. Bates, SUSS:July 73:130

Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82

Stress Analysis of Hollow Cylindrical Inclusions, Sidiq M. Dar and Robert C. Bates, GT2:Feb 74: 123:10364

Stresses Against Underground Structural Cylinders, Kaare Hoeg, SM4:July 68:833:6022

Stresses on Shallow Circular Pipe by Transformed Section, Rowland Richards, Jr. and Jagdish S. Agrawal, GT6:June 74:637:10631

Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49

Summary of Session II - Shotcrete Applications in the Americas, William A. Maples, SUSS:July 73:58

Summary of Workshop B - Shotcrete Design, P. L. Boileau, SUSS:July 73:232

Survey of Tunnel Portal Construction at U.S. Army Corps of Engineers Projects, Curtis L. Craig and Lawrence R. Brockman, URC:72:167

A Tale of Three Tunnels, Thomas R. Kuesel, CE:Dec 74:50

Urban Gravity-Vacuum Transit System, Lawrence K. Edwards, TE1:Feb 69:173:6423

Welcoming Statement — Subsurface Exploration for Heavy Construction, Russell K. McFarland, EFSE: Aug 74:2

The 1970's: Civil Engineering Forecast-Part I, Kneeland A. Godfrey, Jr., CE:Apr 70:68

Tunnel Supports

Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836

Turbidity

Control of Turbidity at Construction Sites, Melvin F. Katzer, ECCD:72:353

Session III-Control of Pollution in Concrete Dam Construction, Dwight L. Glasscock, ECCD:72:391

Turbines

Design Criteria for Turbine-Generator Pedestals, Asadour H. Hadjian, PO1:Jan 70:1:6991

Design of Carters Pumped Storage Project, Walter W. Burdin, PO3:June 70:383:7353

Discharge Facilities at Hells Canyon Dam, J. T. Gilchrist and D. E. Barclay, PO2:Nov 68:161:6230

Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1: 8959

Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405: 10169

Tolerable Settlements of Steam Turbine-Generators, J. Ronald Sallen and Ralph B. Peck, PO2:Oct 69: 227:6841

Transporting Equipment for Grand Coulee Third Plant, Harold G. Arthur, PO2:Nov 68:125:6226

Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259

Turbojet Exhaust Nozzles

Behavior of a Slender Body in Shallow-water Waves, Hsiang Wang and Li-San Hwang, CEC:71:1723

Turbulence

Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7: July 72:1127:9007

Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378

Characteristics of Turbulent Boundary Shear Stress, Paul H. Blinco and Daryl B Simons, EM2:Apr 74: 203:10477

Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248

Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72: 161

Diffusion of Sediment in Developing Flow, Robert P. Apmann and Ralph R. Rumer, Jr., HY1:Jan 70:109: 7018

Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540

Dispersion Prediction from Current Meters, Mervin D. Palmer and J. Bryan Izatt, HY8:Aug 70:1667: 7464

Drag Coefficients in Nonsteady Turbulent Flow, Alex J. Sutherland and David J. Painter, HY7:July 71: 1031:8233

Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238

Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189
Effect of Stream Turbulence on Heated Water Plumes, James Weil and Hugo B. Fischer, HY7:July 74:951:10674
Effect of Turbulence on Galloping Instability, Milos Novak and Hiroshi Tanaka, EM1:Feb 74:27:10338
Effects of Helix Angle on Flow in Corrugated Pipes, Edward Silberman, HY11:Nov 70:2253:7685
Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8: Aug 72:1367:9088
Enhanced Dispersion in Drag Reducing Open Channel Flow, Jerald P. Peterson, Walter E. Castro, Paul B. Zielinski and William F. Beckwith, HY6: June 74:773:10622
Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71: 1269:8367
Flow Through Annulus with Large Radial Clearance, M. H. Abdul Khader and H. Suresh Rao, HY1:Jan 74:25:10265
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897: 10119
Flow Visualization in Turbulent Boundary Layers, Joseph A. Clark and Eric Markland, HY10:Oct 71: 1653:8459
Flux Development Region in Submerged Jets, W. Hall C. Maxwell, EM6:Dec 70:1061:7756
Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
Grid Turbulence in Initally Turbulent Water Flow, M. H. Abdul Khader and K. Elango, EM6:Dec 74: 1149:11003
Heated Water Jet in Coflowing Turbulent Stream, Mostafa A. Shirazi, Raul S. McQuivey and Thomas N. Keefer, HY7:July 74:919:10661
Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72: 447:8836
Hot-Film Turbulence Measurements in Water Flow, Francois J. Resch, HY3:Mar 70:787:7177
Impinging Circular Turbulent Jets, Spyridon Beltaos and Nallamuthu Rajaratnam, HY10:Oct 74:1313: 10852
Lagrangian Characteristics of Surface Turbulence, Eggert Hansen, HY7:July 72:1255:9008
Load Fluctuations in Turbulent Flow, Barry J Vickery, EM1:Feb 68:31:5782
Macro-Turbulence From Wind Waves, Chin-Yuan Lee and Frank D. Masch, 12CEC:71:223
Mean and Turbulent Velocities for Plane Jet, Walter C. Mih and John A. Hoopes, HY7:July 72:1275: 9050
Measurement of Bed Shear Stress Under Waves, H. P. Riedel, J. William Kamphuis and A. Brebner, CE13:72:I-587
Measurement of Sediment Suspension in Combinations of Waves and Currents, J. Kirkegaard Jensen and Torben Sorensen, CE13:72:II-1097
Measurement of Turbulence in Water, Everett V. Richardson and Raul S. McQuivey, HY2:Mar 68: 411:5855
Measurement of Velocity-Concentration Covariance, Raul S. McQuivey and Thomas N. Keefer, HY9: Sept 72:1625:9184
Measurements of Turbulence in Water at High Velocity, Stephen C. Ko, TN: HY12:Dec 72:2253: 9397
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9: Sept 71:1367:8373
A Model for Turbulent Transfer in the Wall Region, Lindon C. Thomas and Liang-Tseng Fan, TN: EM1:Feb 71:169:7858
Nonlinear Flow in Porous Media, Nazeer Ahmed and Daniel K. Sunada, HY6:Nov 69:1847:6883
Photomicroscopic Sublayer Velocity Measurement, Harry G. Wenzel, Jr. and Michael J. Mathews, HY12:Dec 70:2467:7724
Predicting Concentration Profiles in Open Channels, Harvey E. Jobson and William W. Sayre, HY10: Oct 70:1983:7618
Reaeration Prediction in Natural Streams, Edward L. Thackston and Peter A. Krenkel, SA1:Feb 69:65: 6407
Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Response of Cooling Tower to Turbulent Wind, Noel J. Gardner, ST10:Oct 69:2057:6812
Response of Triangular Prisms in Turbulent Wind, Peter W. Chen, Alan G. Davenport, Nicholas Isyumov and Leslie E. Robertson, ST11:Nov 71: 2679:8526
Rotary Flow Meter as Turbulence Transducer, Erich J. Plate and James P. Bennett, EM6:Dec 69:1307: 6955
Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, M. E. Berlyand and E. L. Genikhovich, ISSF:Aug 72:125
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF: Aug 72:595
Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
Some Turbulence Measurements in Open-Channel Flow, Raul S. McQuivey and Everett V. Richardson, HY1:Jan 69:209:6349
Space Correlations in Round Turbulent Jet, Sedat Sami, HY3:May 69:907:6565
Stability of Laminar Flow at Seabed, John F.A. Sleath, WW2:May 74:105:10512
Stochastic Model of Turbulent Channel Flow, Jay C. Hardin and Arnold L. Sweet, EM2:Apr 71:375: 8056
Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562
Stream Turbulence Effects On Turbulent Boundary Layer, James M. Robertson and Charles F. Holt, TN: HY6:June 72:1095:8932
Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942
Three-Dimensional Density Current, Trevor R. Fietz and Ian R. Wood, HY6:Nov 67:1:5549
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
Triangular Framework Model for Plate Bending, Eero-Matti Salonen, TN: EM1:Feb 71:149:7858
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
Turbulence and Flocculation, Yerachmiel Argaman and Warren J. Kaufman, SA2:Apr 70:223:7201
Turbulence and Sediment Concentration due to Waves, Kiyoshi Horikawa and Akira Watanabe, 12CEC:71:751
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72: 1365:9445
Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72: 1187:9061
Turbulence in Hurricane-Generated Coastal Currents, Stephen P. Murray, 12CEC:71:2051
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475
Turbulence in the Weakly Mixing Zone of the Interface, Toshio Iwasaki and Tetsuo Abe, ISSF: Aug 72:251
Turbulent Currents in the Presence of Waves, Helge Lundgren, CE13:72:I-623

Turbulent Diffusion and Schmidt Number of Particles, Michael K. Householder and Victor W. Goldschmidt, EM6:Dec 69:1345:6961
Turbulent Flow Near Smooth Wall, Robert Gerard, EM6:Dec 74:1129:10999
Turbulent Helical Flow in an Annuluf, Lynn W. Gelhar and Peter L. Monkmeyer, EM1:Feb 68:295:5815
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144
Unified Analysis of Grid Turbulence, Eduard Naudascher and Cesar Farell, EM2:Apr 70:121:7214
Unified Formulation of Wall Turbulence, Gour-Tsyh Yeh, TN: HY12:Dec 72:2263:9397
Velocities Above Rough Bed in Oscillatory Flow, John F.A. Sleath, WW4:Nov 74:287:10930
Velocity and Temperature in Buoyant Jet, Richard B. Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
Vertical Transfer in Open Channel Flow, Harvey E. Jobson and William W. Sayre, HY3:Mar 70:703:7148
Wind Shear-Turbulence and Reaeration Coefficient, Aziz F. Eloubaidy and Erich J. Plate, HY1:Jan 72:153:8651
Wind Spectra and Dynamic Alongwind Response, Emil Simiu, ST9:Sept 74:1897:10815

Turbulent Boundary Layer
Anemometer Height in Froude Scaling of Wind Stress, Jin Wu, WW1:Feb 71:131:7873
Appearance of Unstable Buoyant Jet, Habib O. Anwar, HY7:July 72:1143:9012

Turbulent Diffusion
Characterization of Settling Tanks by Eddy Diffusio4, Hassan M. El-Baroudi, SA3:June 69:527:6618
Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87

Turbulent Flow
Aeroelastic Instability of Prisms in Turbulent Flow, Milos Novak and Alan G. Davenport, EM1:Feb 70:17:7076
Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555
Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72:161
Dispersivity Tensor for Uniform Channel Flow, Gedeon Dagan, HY5:Sept 69:1699:6794
Drag Coefficient of Cylinders in Turbulent Flow, Stephen C. Ko and Walter H. Graf, HY5:May 72:897:8920
Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189
Grid Turbulence in Initally Turbulent Water Flow, M. H. Abdul Khader and K. Elango, EM6:Dec 74:1149:11003
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Impinging Circular Turbulent Jets, Spyridon Beltaos and Nallamuthu Rajaratnam, HY10:Oct 74:1313:10852
Linearized Non-Stokesian Drag in Turbulent Flow, Barclay G. Jones, Raymond J. Ostensen and Charles C. Meek, TN: EM1:Feb 73:233:9528
A Model for Computation of Stratified Turbulent Flow, J. L. Lumley, ISSF:Aug 72:335
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF:Aug 72:595
Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673
Stochastic Model of Turbulent Channel Flow, Jay C. Hardin and Arnold L. Sweet, EM2:Apr 71:375:8056
Stream Turbulence Effects On Turbulent Boundary Layer, James M. Robertson and Charles F. Holt, TN: HY6:June 72:1095:8932
Tests on Cylinders in Turbulent Flow, Walter H. Graf and Stephen C. Ko, TN: HY8:Aug 71:1265:8274
Three-Dimensional Turbulent Wall Jets, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY1:Jan 74:69:10294
Turbulence in Wakes of Roughness Elements, C. K. Chen and John A. Roberson, HY1:Jan 74:53:10257
Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992
Turbulent Flow Near Smooth Wall, Robert Gerard, EM6:Dec 74:1129:10999
Turbulent Flow Over Moving Boundary, Konstantin Zagustin, En Yun Hsu and Robert L. Street, WW4:Nov 68:397:6210
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144
Work-Energy Equation for the Streamline, Hunter Rouse, HY5:May 70:1179:7300

Turf
Artificial Playing Surface, Jim Clifton, CEWAU:74:90
Commentary, Bernard P. Monahan and Reuben Samuels, CEWAU:74:78

Turkey
Environmental Design for Istanbul Sewage Disposal, Charles G. Gunnerson, EE1:Feb 74:101:10343

Turnkey Projects
Draft Guide to Turnkey Construction Contracts, CE:Oct 72:52

Turnouts
Bonded Continuous Turnout, Gregory E. Mester and Robert H. Robey, TN: ST8:Aug 74:1748:10723

Twisting Stress
Cracking and Control, Neil Jackson, TB:73:III-24-723
A More Exact Theory for Twisted Wire Cables, George A. Costello and James W. Phillips, TN: EM5:Oct 74:1096:10856

Two Dimensional Flow
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
Numerical Methods of Investigation into Stratified Flows, B. I. Sokolov, ISSF:Aug 72:659
Plane Jet on Sloping Floors Under Finite Submergence, Valupadas Mura Hari, HY9:Sept 73:1449:10027
Subsurface Irrigation System Analysis and Design, Yu-Si Fok and Lyman S. Willardson, IR3:Sept 71:449:8380
Wave Forces on Cylinders Near a Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, HYB:Aug 73:155

Two Phase Flow
Bubbly Two-Phase Flow in Hydraulic Jump, Francois J. Resch, Hans J. Leutheusser and Solomon Alemu, HY1:Jan 74:137:10297
Characteristics of an Air-Water Mixture in a Vertical Shaft, C. Samuel Martin, HYB:Aug 73:323
Control of Sediment Flow Into Subsurface Drains, Om P. Gulati, Glenn O. Schwab and Ronald C. Reeve, IR4:Dec 70:437:7751
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727

Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709

First Long-Distance Iron Slurry Pipeline, E. H. Griesshaber, CE:Jan 69:66

Flow of Sand and Water in Pipes, Frederic T. Mavis, TN: HY3:Mar 71:483:7945

Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679

Hydrodynamical Stability of Salt Wedge, Fang A. Lee, HY1:Jan 74:17:10276

Initial Economic Evaluation of Slurry Pipeline Systems, E. J. Wasp, T. L. Thompson and T. C. Aude, TE2:Apr 71:271:8106

Measuring Solid-Liquid Mixtures in Closed Conduits, Richard N. Weisman and Walter H. Graf, WW4: Nov 68:453:6232

Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635

Movement of Small Gas Bubbles in Smoothly Decelerating Liquid, Subba Rao Gutti, HY7:July 71:117:8251

Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300

On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603

Optimization of Pipelines Transporting Solids, William A. Hunt and Irving C. Hoffman, PL1:Oct 68:89:6179

Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9: Sept 72:1527:9186

Pipelining of Low-Concentration Sand-Water Mixtures, Millard P. Robinson, Jr. and Walter H. Graf, HY7:July 72:1221:9060

Sand Fill Pumped 15 Miles for Interstate Construction, John W. Sill, CE:Feb 71:44

Sediment Transportation Mechanics: J. Transportation of Sediment in Pipes, Vito A. Vanoni, Chmn., HY7:July 70:1503:7423

A Theory for Heterogeneous Flow of Solids in Pipes, Marion R. Carstens, HY1:Jan 69:275:6354

Tidal Flow in Exponentially Varying Estuaries, Wen-Hsiung Li and Michael Edwin Kozlowski, HY11: Nov 74:1649:10967

Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY7:July 72:1101:9009

Typhoons

Typhoon Waves at the High Island Dam, Hong Kong, Peter Ackers, J. A.T. Aspden and J. L. Boyd, WAVES:Sept 74:523

Ultimate Disposal

Attitudes in Sludge Treatment and Disposal, Richard I. Dick, EE5:Oct 74:1077:10844

Ultimate Loads

Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480

British Column Design, Allan R. Gent, TB:73:II-16-545

Expected Value of Ultimate Load Factor, Alberto Castellani, TN: ST2:Feb 73:291:9545

Inelastic Stability of Beams under Biaxial Bending, Chesada Kasemset, Fumio Nishino and Seng-Lip Lee, EM5:Oct 74:965:10881

Ultimate Strength

Breaking Load for Rigid Pavement, K. K. Ghosh and M. Dinakaran, TE1:Feb 70:87:7108

Design of Browns Ferry Chimney, John W. Smith and Asgeir Jonsson, PO3:June 70:437:7359

Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739: 9409

Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296

Optimum Design of Truss Structures For Ultimate Loads, William S. LaPay and George G. Goble, EC5:70:223

Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1: Jan 73:183:9501

Reinforced Concrete Rectangular Columns in Torsion, Alfred G. Bishara and Jong-Cherng Peir, ST12:Dec 68:2913:6305

Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194

Ultimate Capacity of Single Bolted Angle Connections, John B. Kennedy and George R. Sinclair, ST8:Aug 69:1645:6721

Ultimate Static Strength of Plate Girders from Tests, Max A.M. Herzog, ST5:May 74:849:10530

Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793

Ultimate Strength of Cellular Flat Plate, Unnikrishna S. Pillai and K. Sapru, TN: ST5:May 74:1162:10536

Ultimate Strength of Concrete Box Girder Bridge, Jack G. Bouwkamp, Alexander C. Scordelis and S. Tanvir Wasti, ST1:Jan 74:31:10293

Ultimate Strength of Multistory Steel Rigid Frames, Sviatoslav Liapunov, ST8:Aug 74:1643:10750

Ultimate Strength Design

Reinforced Concrete Columns, State-of-Art Report 5, Ignacio Martin, TB:73:III-21-223

Ultimate Strength Design of Composite Columns, Horace J. Brettle, ST9:Sept 73:1931:9975

Ultimate Strength Method

Effects of Reinforcements on Ductility of Concrete, Surendra P. Shah and B. Vijaya Rangan, ST6:June 70:1167:7366

Ultrasonic Tests

Design Limitations for Fatigue, State-of-Art Report 5, Takeo Naka, TB:73:II-18-771

Ultraviolet Equipment

Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, NSCD:71:223

Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, SA5:Oct 71:601:8423

Ultraviolet Radiation

Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489: 9944

Modern Concept of Disinfection, Shih L. Chang, NSCD:71:635

Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, NSCD:71:223

Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, SA5:Oct 71:601:8423

Uncertainty Principle

Assessing and Reporting Uncertainties, State-of-Art Report 1, Carl J. Turkstra and Haresh C. Shah, TB: 73:Ib-10-919

Eigenvalue Uncertainty in Stressed Structures, Gary C. Hart, EM3:June 73:481:9780

Evaluation of Effects of Land-Use Changes on Streamflow, David R. Dawdy and James M. Bergmann, IR73:Aug 73:619

Underdrains

Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507

'Filter-Fin' Multiplies Drain Effectiveness, Kent A. Healy and Richard P. Long, CE:Apr 74:50

Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543: 9422

Undergraduate Study

The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74:1-559

Civil Engineering and Public Affairs: New Direction in Undergraduate Education at Carnegie-Mellon University, Francis Clay McMichael, CEE:Feb 74:1-689

Civil Engineering Education in Transition: A Case Study, Ralph R. Rumer, Jr. and George C. Lee, CEE:Feb 74:1-24

Civil Engineering: Flexible or Rigid Program, Howard I. Epstein, CEE:Feb 74:1-16

A Complete Education -- The Management Role, Keith Charles Crandall, CEE:Feb 74:1-489

A Construction Co-op Educational Program, Keith F. Faherty and William E. Kissner, CEE:Feb 74:1-637

Construction Education at North Carolina State, George H. Blessis, CEE:Feb 74:1-613

Construction Education in Civil Engineering, Herbert W. Busching and J. Pat Cecil, CEE:Feb 74:1-607

A Consulting Firm in Civil Engineering Education: A History of Four Years of Participation, Eben Vey and David A. Novick, CEE:Feb 74:1-927

Development of a Curriculum in Construction Engineering, Thomas C. Jellinger, CEE:Feb 74:1-654

Development of a Planning Program: A Case Study, William K. Johnson, Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71

Education for Construction Engineering and Management, John A. Havers and Donn E. Hancher, CEE:Feb 74:1-662

Effects of Environmental Concerns on Education, Paul W. Purdom, CEE:Feb 74:1-508

Engineering at the University of Illinois (Chicago Circle), Ernest F. Masur, CEE:Feb 74:1-127

A Flexible Civil Engineering Curriculum, James P. Olson and Joseph C. Oppenlander, CEE:Feb 74:1-48

Humanities and Social Sciences in Engineering Education, 1974, Omer Allan Gianniny, Jr., CEE:Feb 74:1-530

Introducing Undergraduates to Environmental Quality, Alonzo W. Lawrence, CEE:Feb 74:1-83

Land Surveying and Civil Engineering -- Professionally Related, But Different, Kenneth S. Curtis and John G. McEntyre, CEE:Feb 74:1-134

Modern Civil-Environmental Engineering Curriculum, Herman A.J. Kuhn and William D. Berg, CEE:Feb 74:1-104

Neglected Responsibilities of Undergraduate Education, John P. Klus, CEE:Feb 74:1-566

A New Civil Engineering Curriculum at Purdue, Gerald A. Leonards, Martin J. Gutzwiller and Robert H. Lee, CEE:Feb 74:1-39

New Interdisciplinary Program in Construction Management at WPI, A. Fattah Chalabi, CEE:Feb 74:1-645

Option Packages for Undergraduate Technical Depth, Russel C. Jones, CEE:Feb 74:1-32

PennState Civil Engineering Construction Education, Jack H. Willenbrock, CEE:Feb 74:1-628

A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552

Role of a Small College in Education of Engineers, Jon A. Cole and Edward F. Cross, CEE:Feb 74:1-55

The Socio-Engineering Program at S.U.N.Y.-Buffalo, George C. Lee, CEE:Feb 74:1-703

Straddling the Picket Fence, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, CEE:Feb 74:1-6

Student Assistance for Local Governments, Lansford C. Bell, CEE:Feb 74:1-143

Teaching Design with Practicing Engineers (Five Years of Experience), John J. Cassidy, CEE:Feb 74:1-937

Ten Years After: Confessions of an Overeducated Engineer, Richard M. Males, CEE:Feb 74:1-417

Undergraduate Civil Engineering Programs, David A. VanHorn, CEE:Feb 74:2-25

The Urban and Environmental Engineering Program at the University of North Carolina at Charlotte, Jack B. Evett, CEE:Feb 74:1-90

Urban Systems Planning: Implications for Civil Engineering Education, Ata M. Khan, CEE:Feb 74:1-164

Ut Prosimus et Ducamus, Dan H. Pletta, CEE:Feb 74:1-459

Water Resources Education in Civil Engineering, Vincent T. Ricca and Robert C. Stiefel, CEE:Feb 74:1-96

WPI Plan -- From Concept to Reality, Armand J. Silva and William R. Grogan, CEE:Feb 74:1-64

WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121

Underground Facilities

Design of Rock Caverns for Hydraulic Projects, Mircea S. Vasilescu, C. P. Benziger and Robert W. Kwiatkowski, URC:72:21

Dworshak Dam Underground Crushing Chamber, Charles O. Faris, URC:72:147

Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, Marshall U. Bagwell, CE:Feb 73:45

Northfield Mountain Pumped Storage Project, Ralph W. Gunwaldsen and Antonio Ferreira, CE:May 71:53

The Use of Underground Space to Achieve National Goals, Robert F. Baker, Project Dir., UNSANS:73, 335pp.

Underground Life Support Systems

The Use of Underground Space to Achieve National Goals, Robert F. Baker, Project Dir., UNSANS:73, 335pp.

Underground Mining

Mount Hope Project — Studies of an Underground Site for Developing Peaking Capacity, Robert C. Richert, EPCE:Aug 74:265

Underground Powerplants

Bad Creek Pumped Storage Project, James G. Hester and Robert F. Edmonds, EPCE:Aug 74:241

Mount Hope Project — Studies of an Underground Site for Developing Peaking Capacity, Robert C. Richert, EPCE:Aug 74:265

Northfield Mountain Underground Power Station, Philip A. Wild and David P. McKittrick, URC:72:287

Powerplant Chamber Under Oroville Dam, George H. Kruse, URC:72:333

Problems with Large Underground Stations in Italy, Morando Dolcetta, URC:72:243

Rock Mechanics at Churchill Falls, Raymond P. Benson, Robert J. Conlon, Andrew H. Merritt, Paul Joli-Coeur and Don U. Deere, URC:72:407

Underground Rock Structures Challenge the Engineer, Thomas A. Lang, URC:72:1

Underground Storage

Analog of Ground Water in East-Central New Mexico, H. Boyd Phillips and Harris R. McDonald, IR1:Mar 69:27:6435

Analytical Study of Pressurized Elliptical Cavities, Yoginder P. Chugh and H. Reginald Hardy, Jr., RM14:73:339

Artificial Ground-Water Recharge by Means of Wells in Israel, Yoav Harpaz, HY12:Dec 71:1947:8579

Crude Storage: Tanks or Caverns?, M. P. Daruwalla and J. N. Hagg, CE:Apr 71:38

Design of FRP Fluid Storage Vessels, Frank J. Heger, ST11:Nov 70:2465:7698

Gravitational and Dispersive Mixing in Aquifers, Lynn W. Gelhar, John L. Wilson, III and John S. Miller, HY12:Dec 72:2135:9439

How to Cut Underground Construction Costs, R. L. Loofbourow, CE:June 72:85

Storage of Oil in Unlined Caverns in Different Types of Rock, Carl-Olof Morfeldt, RM14:73:409

Subsurface Environment—Private Property or Public Domain?, William R. Walker and William E. Cox, HY11:Nov 74:1699:10958
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
A Water Spreading and Well Field Water Supply System, Burt A. Babcock, IRS:Sept 72:225

Underground Streams

Finite Element Analysis of Flow Toward Artesian Well, Yang H. Huang, TN: HY11:Nov 72:2055: 9311

Underground Structures

Better Specifications for Underground Work, J. Donovan Jacobs, URC:72:515
Design of Underground Pumping Chamber at Lake Mead, Robert R. Rising and Gayle A. Ericson, URC:72:381
Development of Shotcrete for Metro Construction in Washington, Kanwal S. Bawa, SUSS:July 73:33
Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, SM12:Dec 73:1153:10237
Excavation Quality Control for the NCMC Expansion, John D. Smart and Ronald L. Friestad, RM13:72:643
Experimental Study of Buckling of Buried Domes, Zvi Getzler and L. Lupu, SM2:Mar 69:605:6476
Interaction of Waves with Submerged Objects, C. J. Garrison and V. Seetharama Rao, WW2:May 71: 259:8111
Mixing-in-Place Soil and Portland Cement, James L. Sherard, SM6:Nov 69:1357:6909
Model Study on Arching Above Buried Structures, Zvi Getzler, Amos Komornik and Ami Mazurik, SM5:Sept 68:1123:6105
Northfield Mountain Underground Power Station, Philip A. Wild and David P. McKittrick, URC:72: 287
Opening Remarks, James R. Graham, SUSS:July 73:1
Planning and Estimating Underground Construction, by Albert D. Parker (Book Review), Joseph C. Kellogg, CE:July 71:22
Powerplant Chamber Under Oroville Dam, George H. Kruse, URC:72:333
Rock Engineering for Underground Caverns, Edward J. Cording, Alfred J. Hendron, Jr. and Don U. Deere, URC:72:567
Rock Mechanics at Churchill Falls, Raymond P. Benson, Robert J. Conlon, Andrew H. Merritt, Paul Joli-Coeur and Don U. Deere, URC:72:407
Rock Mechanics Studies--Mica Project, B.C., Paul Meidal and R. Kenneth Dodds, URC:72:203
"Room and Pillar" Structures in Competent Rock, Francois E. Heuze and Richard E. Goodman, URC: 72:531
Seismic Analysis of Underground Structural Elements, Hemant H. Shah and Shih-Lung Chu, PO1:July 74:53:10648
Stress Measurement by Retractable Cable Method, Rodolfo V. de la Cruz, RM13:72:865
Subsurface Construction Contracts—A Contractor's View, George A. Fox, CO2:June 74:153:10608
Summary Report on Experimental Evaluation of Simulated Uncased Pipeline Crossings of Railroads and Highways, Everett C. Rodabaugh, Thomas J. Atterbury and G. L. Hinueber, UPC:Apr 71
Underground Rock Structures Challenge the Engineer, Thomas A. Lang, URC:72:1
The Use of Underground Space to Achieve National Goals, Robert F. Baker, Project Dir., UNSANS:73, 335pp.

Underground Supporting

Development of Shotcrete for Metro Construction in Washington, Kanwal S. Bawa, SUSS:July 73:33
Early Age Strength Properties of Shotcrete, Grant L. Anderson and Melvin E. Poad, SUSS:July 73:277
Geologic Considerations in Shotcrete Design, Edward J. Cording, SUSS:July 73:175
Instrumentation to Monitor Behavior of Shotcrete Support Systems, Ronald A. Jones and J. W. Mahar, SUSS:July 73:297
Opening Remarks, James R. Graham, SUSS:July 73:1
Polymer Shotcrete, James R. Graham, SUSS:July 73: 418
Practical Aspects of Shotcrete Application, Fernando E. Valencia, SUSS:July 73:114
Selection/Design of Shotcrete for Temporary Support, Ronald E. Heuer, SUSS:July 73:160
Shotcrete for Structural Rehabilitation, James P. Crawford, SUSS:July 73:367
Shotcrete Practices at the Henderson Mine, Robert C. Jones, SUSS:July 73:50
Summary of Session III - European Shotcreting Practices, Tor L. Brekke, SUSS:July 73:96
Summary of Session II - Shotcrete Applications in the Americas, William A. Maples, SUSS:July 73:58
Summary of Session I - Opening, Charles F. Corns, SUSS:July 73:29
Summary of the Conference, Pierrepont E. Sperry, Jr., SUSS:July 73:441
Summary of Workshop A - Shotcrete Construction and Equipment, Harold E. Tibbs, SUSS:July 73:143
Summary of Workshop B - Shotcrete Design, P. L. Boileau, SUSS:July 73:232
Use of Shotcrete from the Standpoint of the Owner, Gordon M. Miner, SUSS:July 73:13
Use of Shotcrete from the Standpoint of the Designer, Cole R. McClure, SUSS:July 73:18
Use of Shotcrete from the Standpoint of the Contractor, Kirk H. Fox, SUSS:July 73:22
Use of Special Cements in Shotcrete, Madan M. Singh and Seymour A. Bortz, SUSS:July 73:200

Underpasses

Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
Prestressed Precast Concrete Railroad Bridges, Robert M. Barton, ST12:Dec 68:2885:6302
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858

Underpinning

Constructing Washington D.C.'s Metro, Ellis E. Wilhoyt, Jr., CE:Nov 74:74
Underpinning Massive Structures, Charles E. Mergentime, CE:Mar 72:40

Undersea Habitat Atmospheres

Design And Construction Of The Makai Range Habitat, W. E. Bliss, Jr., CEO-II:70:369

Undersea Mineral Deposits

Dredging Methods For Deep-Ocean Mineral Recovery, John B. Herbich, WW2:May 71:385:8120
Methods For Deep-Ocean Mineral Recovery, John B. Herbich, CEO-II:70:297

Undersea Surveillance

Engineering Aspects Of A Movable Surveillance System, Richard C. Swenson, CEO-II:70:385
Instrument Support Structure, Mervin D. Palmer, CEO-II:70:401

Underseepage

Detection of Upward Percolation of Saline Lake Water, C. J. Braudo, F. Mero and A. Mercado, HY9:Sept 70:1795:7519

Underwater Construction

Angat Project - The Leak in Tunnel Two, Wallace A. Waldorf, PO4:Dec 71:799:8571
BART in Operation—Innovations in Rapid Transit, William A. Bugge, TE2:May 74:335:10522
Behavior Of Concrete Exposed To The Sea, Bryant Mather, CEO-II:70:987
Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71: 1183:8372
Carbonate Cementation in Deep-Ocean Sediments, William E. Kelly, Vito A. Nacci, Mian C. Wang and Kenneth R. Demars, TN: GT3:Mar 74:383: 10420
Concrete Deep Submergence Hollow Shell Structures, Jerry D. Stachiw, ST12:Dec 69:2931:6982

Concrete Hulls For Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, CEO-II:70:999
Concrete Hulls for Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, ST4:Apr 71:1283:8078
Concrete-Polymer Composites for Underwater Applications, Lawrence E. Kukacka, Peter Colombo, Meyer Steinberg and Bernard Manowitz, CEO-II:70:969
Construction Of Large Concrete Ocean Structures, Ben C. Gerwick, Jr., CO1:Mar 71:1:7991
Design and Construction of Newport Bridge, Alfred Hedefine and Herbert M. Mandel, ST11:Nov 71:2635:8529
Design of Offshore Structures Against Resonant Response, Lawrence G. Selna and David Cho, CEO-II:70:79
Dynamic Response Of Submerged Sphere, Herman Bomze, CEO-II:70:511
A Dynamic Structure-Soil-Wave Model For Deep Water, Billy L. Edge and Paul G. Mayer, CEO-II:70:13
Dynamic Structure-Soil Wave Model for Deep Water, Billy L. Edge and Paul G. Mayer, WW1:Feb 71:167:7889
Earth Dam Built Without Dewatering, Keith A. Henry, CE:Jan 71:37
Engineering Properties of Submarine Soils: State-of-the Art Review, Iraj Noorany and Stanley F. Gizienski, SM5:Sept 70:1735:7536
An Evaluation of Undersea Nuclear Reactor Power Systems, Walter H. D'Ardenne, CEO-II:70:315
Fluid-Dynamic Consideration Of Bottom Materials, Hormoz Pazwash and James M. Robertson, CEO-II:70:1135
Forces Due to Waves on Submerged Structures, John B. Herbich and George E. Shank, WW1:Feb 71:57:7870
Inelastic Buckling of Shallow Spherical Shells, Lawrence H.N. Lee, Teoman Ariman and Roger E. Hoffman, CEO-II:70:579
Instrument Support Structure, Mervin D. Palmer, CEO-II:70:401
Limfjord Tunnel: Precast Sections in Underwater Trench, K. Havno, CE:July 69:59
New Role of Engineers as Trained Divers, Thomas E. Morris, IRS:Sept 72:257
Oceanic Factors Pertinent to Shelf Installations, Eugene C. La Fond and Katherine G. La Fond, CEO-II:70:783
Ocean Wave Forces on a Subsurface Sphere, Robert A. Grace and Frederick M. Casciano, WW3:Aug 69:291:6722
Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
Oscillatory Behavior Of Submerged Structures, Robert Y. S. Lai and Lyle F. Mockros, CEO-II:70:945
Photoelastic Analysis of Undersea Structures, Stanley K. Takahashi and Robert Mark, ST3:Mar 69:317:6440
Prestressed Pipe for Power Site in New Zealand, Robert H. Weight, A. Max Jensen and A. M. McConnell, PO2:Nov 68:143:6229
Response of Ocean Based Structure To Water-Shock Waves, Young C. Kim, CEO-II:70:93
Response Of Offshore Towers To Earthquake Excitation, Anil K. Malhotra and Joseph Penzien, CEO-II:70:65
Seafloor Surveying by Divers, John B. Ciani, E. Kent Hunter, George B. Dowling and David M. Bunk, SU2:Nov 71:149:8496
Soils Engineering For Wells Project, Harris H. Burke, PO2:Mar 71:317:7976
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
Summary On Studies Of Setting The Self Elevating Drilling Unit "Fuji" On Soft Silty Sea Bed, Y. Arita and Y. Nakao, CEO-II:70:461
A Tale of Three Tunnels, Thomas R. Kuesel, CE:Dec 74:50

Underwater Equipment
Instrument Support Structure, Mervin D. Palmer, CEO-II:70:401
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66

Underwater Explosions
Propagation Of Waves Generated By Underwater Explosion, James Chi-dian Go, CEO-II:70:1149

Underwater Foundations
Concrete Hulls For Undersea Applications, Harvey H. Haynes, Lawrence F. Kahn and Jerry D. Stachiw, CEO-II:70:999
Design of Deep Penetration Piles for Ocean Structures, Bramlette McClelland, GT7:July 74:705:10665
A Dynamic Structure-Soil-Wave Model For Deep Water, Billy L. Edge and Paul G. Mayer, CEO-II:70:13
In-Situ Determination Of Seafloor Bearing Capacity, T. R. Kretschmer and H. J. Lee, CEO-II:70:679
Lubricant And Polymer Reduction Of Sediment Adhesion, R. A. Erchul and Raymond J. Smith, CEO-II:70:621
Summary On Studies Of Setting The Self Elevating Drilling Unit "Fuji" On Soft Silty Sea Bed, Y. Arita and Y. Nakao, CEO-II:70:461

Underwater Life Support Systems
Design And Construction Of The Makai Range Habitat, W. E. Bliss, Jr., CEO-II:70:369

Underwater Objects
Wave Forces on Submerged Objects of Symmetry, Subrata K. Chakrabarti, WW2:May 73:147:9698

Underwater Photography
Construction Of An Ocean Outfall Sewer and the Marine Environment In Its Vicinity, B. V. Elkins, CEO-II:70:413

Underwater Pipelines
Acoustic Sensing in Pipeline Determination, A. S. Westneat, PITO:74:39
Annotated Bibliography of State-of-the-Art Articles for Pipelines in the Ocean. Progress Report of the Task Committee on Pipelines in the Oceans, Committee on Pipeline Planning, John G. Bomba, Chmn., PITO:74:81
Are Submarine Pipeline Contract Documents That Good?, Sam W. Small, III, PITO:74:67
Constructing an Ocean Outfall, Edward B. Fitzpatrick, Jr. and Wallace J. Beckman, CE:Sept 74:83
Deficiencies Noted in Open Literature — Structural, George H. Workman, PITO:74:61
Design of Fish Conserving Intake System, Dallas I. Downs and Kenneth R. Meddock, PO2:Dec 74:191:11008
Design — State-of-the-Art, by Subcommittee on Design and Specifications of the Task Committee on Pipelines in the Ocean, James W. Gillespie, Chmn., PITO:74:45
Environmental Design for Istanbul Sewage Disposal, Charles G. Gunnerson, EE1:Feb 74:101:10343
Final Report of the Task Committee on Pipelines in the Oceans — Introduction, John G. Bomba, Chmn., PITO:74:1
Foundation Conditions, Wayne A. Dunlap and Louis J. Thompson, PITO:74:29
Hydraulic Trenching of Submarine Pipeline, H. Ivan Schwartz, TN: TE4:Nov 71:723:8489
Offshore Pipeline Burial, Sjoerd C. Haagsma, TN: TE4:Nov 73:980:10117
Offshore Pipeline Burial: Some Remarks on the State-of-the-Art, Sjoerd C. Haagsma, PITO:74:73
Pipeline Design to Reduce Anchor and Fishing Board Damage, Robert J. Brown, TE2:May 73:199:9716
Prestressed Pipe for Power Site in New Zealand, Robert H. Weight, A. Max Jensen and A. M. McConnell, PO2:Nov 68:143:6229

Problems and Deficiencies: Economics and Environmental Considerations, David R. Miller, PITO:74:63
State-of-the-Art: Pipe Lines in the Oceans — Construction Factors, Robert G. Aldridge, PITO: 74:57
Vancouver Uses Innovative Ways for Placing Large Submarine Pipelines, Doug McKay, Don Gillis and Robin Durward, CE:Oct 74:74
Wave Forces on Pipeline, Melville S. Priest, PITO: 74:23
Wave Forces on Submerged Pipe Lines, Ernest F. Brater and Roger Wallace, CE13:72:III-1703

Underwater Propulsion
The Role of Ground Crawling Vehicles in the Ocean, Klaus W. Wiendieck and Dean R. Freitag, CEO-II: 70:327

Underwater Structures
Acoustic Approximations in Fluid-Shell Interactions, Bedros Bedrosian and Frank L. DiMaggio, EM3: June 72:731:8998
Cylindrical Concrete Hulls Under Hydrostatic Loading, Harvey H. Haynes, Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963
Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563
Underwater Inspection by Submarine, Edward J. Drobnack, IMROD:Sept 73:459
Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923

Underwater Vehicles
Design And Construction Of The Makai Range Habitat, W. E. Bliss, Jr., CEO-II:70:369
The Role of Ground Crawling Vehicles in the Ocean, Klaus W. Wiendieck and Dean R. Freitag, CEO-II: 70:327

Underwater Welding
1,250-ton Rotating Derrick, David M. Herring, CE: July 71:53

Undrained Shear Tests
Comparison of Plane Strain and Triaxial Tests on Sand, Kenneth L. Lee, SM3:May 70:901:7276
The Development of a Special Instrument for the In Situ Measurement of the Strength and Stiffness of Soils, C. Peter Wroth and John M.O. Hughes, EFSE:Aug 74:295
Secondary Consolidation and Strength of a Clay, Chih-Kang P. Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273
Stress Conditions In NGI Simple Shear Test, A. Stanley Lucks, John T. Christian, Gregg E. Brandow and Kaare Hoeg, TN: SM1:Jan 72:155: 8618
Test Embankment on Sensitive Clay, Charles C. Ladd, PES:72:I-101
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134

Unemployment
Dsc, The unemployed engineer, Stuart I. Harris, CE: Mar 72:51

Uniform Flow
Dispersion of Floating Particles in Uniform Channel Flow, Frank Engelund, HY4:July 69:1149:6659
Limit Slope in Uniform Computations, Nagar S. Lakshmana Rao and Kalamear Shridharan, HY1: Jan 70:95:7011
Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056
Solution of Steady Flow in Open Channels by Graphs, Horace A. Johnson, CE:Dec 70:46

Uniformity Coefficient
Hydraulics and Uniformity for Drip Irrigation, I-pai Wu and H. M. Gitlin, IR2:June 73:157:9786

Unionization
The Alternative to Unionism, William H. Wisely, CE: Feb 71:43
American Engineering Unions, Hatim M. Hajj, PP2: Apr 73:213:9657
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
Collective Bargaining for Public Employees, Myron D. Calkins, CE:Oct 69:40
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
Commentary, Allan H. Sample, CEWAU:74:275
Commentary, Keith A. Foucher, CEWAU:74:281
Construction Personnel Management, Henry J. Nave, Jr., CO1:Jan 68:95:5765
Effect of Changes in Civil Engineering Profession, John J. Cusack, PP1:Sept 70:107:7563
Engineer Firms Face Unionization, Larry N. Spiller, CE:Apr 71:49
Engineers in Public Practice Face the Union Problem, Waldo G. Bowman, CE:Apr 69:49
Masonry Construction Operations, Clayford T. Grimm, CO2:June 74:171:10630
National ASCE Drafts Proposed Salary Guidelines, CE:Jan 72:42
Open-Shop Movement Slithers Into Construction Contracting, Robert N. Olsen, CE:Nov 71:40
Professionalism and Unionization-Starting a Program, Jack W. Pierce, PP1:Sept 70:25:7550
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
Salary Guidelines: Enlightened Implementation or Unionization?, Jack H. McMinn, PP4:Oct 73:429: 10090

Union of Soviet Socialist Republics
Hotel "Intourist" Smolenskaya Square, N. P. Melnikov, TB:73:C-P-240
Low-Cost Housing: Is the Soviet Union's Factory-Made Housing the Answer?, A. Allan Bates, CE: Sept 69:44
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201
Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489
Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, N. P. Melnikov, TB:73:II-13-121
Tidal Power Station on USSR's Arctic Coast, Lev B. Bernstein, CE:Apr 74:46
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93

Unit Costs
Designs Tailored To Accelerate Concrete Dam Construction, Gurmukh S. Sarkaria, RCCD:70:161

United Kingdom
Consturction Practices in the U.K., G. G.K. Smith, TB:73:Ia-4-816
Dam Safety Laws and Inspection Procedures in the United Kingdom, Angus A. Fulton, IMROD:Sept 73:180

United States
European Versus United States Grouting Practices, P. Rigny, EFFD:Mar 74:37
National Program for Inspection of Dams, John W. Morris, IMROD:Sept 73:14
Present State of the Grouting Industry in the United States, Joseph P. Welsh, EFFD:Mar 74:65
The Reminiscences of John B. Jervis, Engineer of the Old Croton, Edited by Neil Fitzsimons (Book Review), William D. French, CE:July 72:8

Role of Government in Public Works, Peter Corradi, PWS:Nov 72:187
Towards New Towns for America-Slowly, George C. Bestor, UP1:Mar 73:47:9591

United States Government
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276

Unit Hydrographs
Analytically Derived Unit Graph and Runoff, Roger P. Betson and Ralph F. Green, HY6:Nov 68:1489:6256
Data Error Effects in Unit Hydrograph Derivation, Eric M. Laurenson and Terence O'Donnell, HY6:Nov 69:1899:6887
Design Hydrographs for Pennsylvania Watersheds, John E. McSparran, HY4:July 68:937:6036
Evaluation of Segmented IUH From Derivatives, Mordechai H. Diskin, HY1:Jan 69:329:6359
Hydrograph Synthesis by Digital Computer, Michael D. Hudlow and Robert A. Clark, HY3:May 69:839:6555
Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247:10236

Units of Measurement
Introduction to Metric or SI, Burton Kleinberg, CE:Mar 73:55

Unit Weight
Rational Model Describing Slope Erosion, Dale L. Rowlison and Glen L. Martin, IR1:Mar 71:39:7981

Universities
The Abstraction of Civil Engineering Students, Edward L. Tharp and Ralph H. Clark, CEE:Feb 74:1-559
Civil Engineering: An Education for Professional Management, Boyd C. Paulson, Jr., CEE:Feb 74:1-580
Civil Engineering Curricula -- An Evaluation, H. Gordon Larew and John P. Bradshaw, CEE:Feb 74:1-406
Civil Engineering Education Requirements for an Electric Utility, Bruce R. Laverty and Jim O. Bass, CEE:Feb 74:1-400
Civil Engineering: Flexible or Rigid Program, Howard I. Epstein, CEE:Feb 74:1-16
Conducting Civil Engineering Continuing Education, Peter C. Madsen and King S. Luk, CEE:Feb 74:1-900
The Continuing Challenge of Engineering Education, Arthur G. Hansen, PP3:July 72:351:9037
Development of a Curriculum in Construction Engineering, Thomas C. Jellinger, CEE:Feb 74:1-654
Education of Engineering Students to become Engineers, George F. Sowers, CEE:Feb 74:1-320
Engineering at the University of Illinois (Chicago Circle), Ernest F. Masur, CEE:Feb 74:1-127
Evaluation of a University-Industry Interaction Program, Subhash C. Anand and Marvin E. Criswell, CEE:Feb 74:1-971
A Flexible Civil Engineering Curriculum, James P. Olson and Joseph C. Oppenlander, CEE:Feb 74:1-48
Fulton Arcade (A Pedestrian/Transitway in Downtown Brooklyn), Richard M. Rosan, BP73:Dec 73:80
Future Goals and Directions - The Educator's Viewpoint, William M. Sangster, CEE:Feb 74:2-280
Improved Monitoring of C.E. Education - The Need and a Method, Milton Alpern and Vincent Bonvissuto, CEE:Feb 74:1-913
Integrating Construction with Engineering, Ben C. Gerwick, Jr., CEE:Feb 74:1-598
Introducing Undergraduates to Environmental Quality, Alonzo W. Lawrence, CEE:Feb 74:1-83
Issues of Environmental Engineering Education, Wesley O. Pipes, CEE:Feb 74:1-496
Land Surveying and Civil Engineering -- Professionally Related, But Different, Kenneth S. Curtis and John G. McEntyre, CEE:Feb 74:1-134
The Making of a Professional Civil Engineer, Gerard Roberto, Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433
The ME(Civil) Program at Cornell University - Part 1 - Program Development, Dwight A. Sangrey and George Winter, CEE:Feb 74:1-779
The ME(Civil) Program at Cornell University - Part II - Program Implementation, Richard N. White, Vaughn C. Behn, Gerard F. Fox and Arthur Adams, CEE:Feb 74:1-787
The Military Draft: Educational and Occupational Deferments for Engineers, Betty M. Vetter, CE:May 69:67
Modern Civil-Environmental Engineering Curriculum, Herman A.J. Kuhn and William D. Berg, CEE:Feb 74:1-104
Neglected Responsibilities of Undergraduate Education, John P. Klus, CEE:Feb 74:1-566
A New Civil Engineering Curriculum at Purdue, Gerald A. Leonards, Martin J. Gutzwiller and Robert H. Lee, CEE:Feb 74:1-39
Operation and Maintenance of Campus Bicycle Facilities, John E. Baerwald, BP73:Dec 73:167
Option Packages for Undergraduate Technical Depth, Russel C. Jones, CEE:Feb 74:1-32
The "Professional" Faculty, Waldron Murrill McLellon and Robert D. Kersten, CEE:Feb 74:1-800
A Professionally Oriented Civil Engineering Department, Edward T. Misiaszek, CEE:Feb 74:1-552
Professional Schools and Programs, M. R. Lohmann, CEE:Feb 74:2-125
A Proposed Doctor of Engineering Program, Fred J. Benson and Charles H. Samson, Jr., CEE:Feb 74:1-772
Role of a Small College in Education of Engineers, Jon A. Cole and Edward F. Cross, CEE:Feb 74:1-55
The Role of Consulting in Faculty Development, Furman W. Barton, Fred C. McCormick and Henry L. Kinnier, CEE:Feb 74:1-962
The Role of the Professional in Architectural Education, David Clarke, CEE:Feb 74:2-202
The Socio-Engineering Program at S.U.N.Y.-Buffalo, George C. Lee, CEE:Feb 74:1-703
Straddling the Picket Fence, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, CEE:Feb 74:1-6
UCSB Bikeways - Notes and Comments, Peter Chapman, BP73:Dec 73:672
University of Wisconsin Offers Professional Development Degree, John P. Klus and C. Allen Wortley, CE:Jan 72:49
University Teaching by Practicing Engineers, King S. Luk, CEE:Feb 74:1-945
Urban Engineering in the University, William T. Hafferty, PP1:Sept 70:15:7547
Water Resources Education in Civil Engineering, Vincent T. Ricca and Robert C. Stiefel, CEE:Feb 74:1-96
The Water Studies Program at Stanford University, Perry L. McCarty, CEE:Feb 74:1-193
WPI Plan -- From Concept to Reality, Armand J. Silva and William R. Grogan, CEE:Feb 74:1-64
WPI's Environmental Systems Study Program, Krishnaswamingar Keshavan, Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121

Unsaturated Flow
Impedance Effects On Unsaturated Flow In A Non-Swelling Soil, Hong Yau Wong and Raymond N. Yong, TN: SM8:Aug 72:837:9085

Unsaturated Soils
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201

Unsteady Flow
De Saint-Venant Equations Experimentally Verified, Willem F. Brutsaert, HY9:Sept 71:1387:8378

Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72: 161

Drawdown in Compressible Unconfined Aquifer, Tatiana D. Streltsova, HY11:Nov 74:1601:10950

Flow Rates in Two-Dimensional, Unsteady, Confined Groundwater Flow, Bruce W. Hunt, HY2:Mar 69: 603:6451

Geometric and Frictional Effects on Sudden Releases, Shih-Tun Su and Albert H. Barnes, HY11:Nov 70:2185:7650

Implicit Flood Routing in Natural Channels, Michael Amein and Ching S. Fang, HY12:Dec 70:2481: 7773

Invariant Imbedding and Unsteady Ground-Water Flow, Shin Chang and William Wen-Gong Yeh, HY10:Oct 74:1343:10862

Linear Programming and Channel Flow Identification, William Wen-Gong Yeh and Leonard Becker, HY11:Nov 73:2013:10177

Long Wave Propagation in Idealized Estuary, Donald W. Knight, HY7:July 73:993:9842

Numerical Solution of Saint-Venant Equations, Theodor S. Strelkoff, HY1:Jan 70:223:7043

One-Dimensional Analysis of Floods and Tides in Open Channels, Armando Balloffet, HY4:July 69: 1429:6695

Onset of Instability Of Power-Law Fluid in Couette Flow, Yun-Sheng Yu and Dan B. McVickar, EM1: Feb 71:1:7887

Pressure Surge Attenuation Utilizing an Air Chamber, Don J. Wood, HY5:May 70:1143:7267

Real Time Routing of Flood Hydrographs in Storm Sewers, Garth S. Harris, HY6:June 70:1247:7327

Routing Storm Water Through a Drainage System, Subin Pinkayan, HY1:Jan 72:123:8642

Runoff Routing Through Steep Natural Channels, Rolf Kellerhals, HY11:Nov 70:2201:7666

Simulation Accuracies of Gradually Varied Flow, J. Peter Jolly and Vujica Yevjevich, HY7:July 74: 1011:10677

Transient Control in Lower Sacramento River, Fred J. Gientke, HY3:Mar 74:405:10418

Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628

Transient Functions for Land Drainage, S. Abdollah Jenab, A. Alvin Bishop and Dean F. Peterson, IR3: Sept 69:361:6768

Transients in Pipelines Carrying Liquids or Gases, Victor L. Streeter, TE2:Feb 71:15:7884

Unsteady Drawdown in Well Groups, Raymond J. Krizek, Gabor M. Karadi and D. Babu Rao, HY10: Oct 71:1625:8436

Unsteady Flow Simulation in Rivers and Reservoirs, Jack M. Garrison, Jean-Pierre P. Granju and James T. Price, HY5:Sept 69:1559:6771

Unsteady Free Surface Ground Water Seepage, Rameshwar D. Verma and Wilfried Brutsaert, HY8: Aug 71:1213:8337

Unsteady Seepage Toward Narrow Ditch, Bruce W. Hunt, HY10:Oct 70:1953:7586

Uplift Piles

Tension Piles and Diagonal Tie-Backs, Norman L. Liver, CO1:July 69:107:6692

Uplift Pressure

Boundary Effects on Stability of Structures, Amrik S. Chawla, HY9:Sept 72:1557:9199

Corps of Engineers Dam Inspection Program, James A. Rhodes, IMROD:Sept 73:61

Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452

Engineers' Inquiry Box: Roof-Tie Downs For Wind Uplift, Peter A. Strobel, CE:Dec 73:64

Movements in Dams Due to Reservoir Filling, Esmail S. Nobari and James M. Duncan, PES:72:I-797

Pile Tips and Barbs Prevent Ice Uplift, James E. Muschell, CE:June 70:41

Stability of Structures on Permeable Foundations, Satya P. Garg and Amrik S. Chawla, HY4:July 69: 1095:6648

Uranyl Sulfates

Yield Criterion for Reinforced Concrete Slabs, Satish Jain and John B. Kennedy, ST3:Mar 74:631:10409

Urban Areas

University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298

Urban Storm Drainage Criteria Manual from Denver, Elmer L. Claycomb, CE:July 70:39

Urban Development

Accessibility and Environmental Quality, V. Setty Pendakur and Gerald R. Brown, UP1:Apr 69:43: 6518

Access to Airports: Basic Policy Development Issues, Robert F. Baker, Chmn., TE3:Aug 69:521:6748

The Aftereffects of Annexation--A Case Study, Russell E. Helms, UP1:Apr 69:15:6490

Analysis of BART Impacts on Bay Area Land Use, Douglass B. Lee, Jr., TE2:May 72:395:8907

Architectural Barriers and the Problems of the Handicapped, Edward H. Noakes, MTI:May 72:51

Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77

Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409

ASCE'S Response to the Spencer Proposals, Board of Direction, ASCE, CE:Aug 70:46

Basic Contemporary Urban Problems, Felipe U. Derteano, UP2:Oct 70:133:7608

Behavioral Aspects of High Rise Buildings, Roy C. Herrenkohl, BP73:Dec 73:442

Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619

Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67

Black People Call for ASCE Social Action, Ralph E. Spencer, CE:Dec 69:73

Book Review: Cities and Geology, Richard E. Gray, CE:Oct 73:106

Book Review: Controlling Urban Growth -- But for Whom?, Lawrence E. Miller, CE:Sept 73:36

Building B -- Santiago Central Development Program, J. Aguirre, C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466

Choice-HUD's Blueprint for a Better Tomorrow, Byron R. Hanke, CE:Sept 69:49

Cities Solve Problems, John V. Lindsay, TB:73:C-DM-211

The City and the Civil Engineer, Walter G. Heintzleman, PP1:Oct 71:55:8479

The City Viewpoint on Environmental Issues, Milton Pikarsky, UT73:May 73:1

Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100

Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600

Computerized Residential Refuse Districting, Geoffrey N. Berlin, UP2:Nov 74:173:10916

Computer Systems for Urban Design and Development, Niles O. Sutphin, William F. Sommerfeld, Lavette C. Teague, Jr. and G. Neil Harper, UP1:Apr 71:63:8055

Correlation of Environmental Impact Evaluations and Highway Transportation Planning, Gerald D. Love, UT73:May 73:71

Current Mass-Transit Proposals: Answer to Our Commuter Problem?, Martin Wohl, CE:Dec 71:68

Design Concept for Assigning Urban Space, Richard W. Cockfield and Virginia K. Handa, UP2:Dec 71: 191:8582

Designing Arterial Streets for Safety, Laurence A. Dondanville, TE1:Feb 71:43:7885

Designing Transportation for People, James M. Beggs, MTI:May 72:7

Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977

Economics of Solid Waste Investment Decisions, Robert M. Clark, UP1:Mar 70:65:7151

Educating the Next Generation of Civil Engineers, Johannes W. Kurz, CEE:Feb 74:1-442
Effect of Urban Development on Flood Discharges, Harman F. Smith, HY1:Jan 69:287:6355
Effects of Urbanization on Water Quality, Robert P. Shubinski and Gerald F. Tierney, UT73:May 73:179
The Engineer and the Crisis of the Cities, Milton Pikarsky, PWS:Nov 72:19
Environmental Studies for Rocky Mountain Highway, Austin B. Milhollin, UP1:Mar 74:17:10387
Esthetics of Urban Transportation Facilities, Charles E. De Leuw, TE1:Feb 69:23:6390
Evaluation of New Systems For Urban Transportation, Reed H. Winslow and Jerry L. Pfeffer, TE4:Nov 72:757:9354
Expo '74 Rejuvenates Downtown Spokane, Virginia Fairweather, CE:June 74:48
Flood Plain Engineering and Management in Metropolitan Chicago, Richard F. Lanyon, CE:May 74:79
Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2:Dec 71:149:8568
Goals for Dallas Program, Erik Jonsson, CE:Sept 72:58
Hydrology of 7-Day 10-Year Low Flows, Krishan P. Singh and John B. Stall, HY12:Dec 74:1753:11013
Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132
Integrating the Planning and Management of Metropolitan Water Resources into a Regional Context, Alexander B. Bigler, UWRM:71:81
Introduction to Session II -- Recycling of Land Resources, Oscar S. Bray, PWS:Nov 72:37
Is Joint Development the Chicken, or the Egg?, Constantine Sidamon-Eristoff, TE3:Aug 71:469:8315
Land-use Intensity, the LUI Scale, and Zoning, Byron R. Hanke, UP4:Dec 67:19:5675
Legal Constraints on Urban Water Systems, Neil S. Grigg, UP2:Sept 73:137:9986
Locational Models for Solid Waste Management, Billy P. Helms and Robert M. Clark, UP1:Apr 71:1:8061
Mall Planning Strategy, Don C. Miles, BP73:Dec 73:675
Mass Transit - Panacea for Urban Problems, E. L. Tennyson, NA:Mar 71:41
Mobile Homes and New Communities, Herbert Behrend, UP2:Nov 74:181:10915
Multiservice Transport Systems for Urban Mobility, Leon Monroe Cole, UP1:Apr 71:31:8025
Nature of and Need for Interdisciplinary Attacks on Problems of Urban Water Management, J. Ernest Flack, UWRM:71:106
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
New Centers for Regional Development, Ronald Greenwald, CE:Sept 69:79
New Triangle in Commuter Service, Harold Wanaselja, TE3:Aug 71:501:8338
New York State Spurs Housing, Kneeland A. Godfrey, Jr., CE:Nov 71:53
The Nixon Administration and the City, E. E. Halmos, Jr., CE:Sept 69:98
Opportunities for Civil Engineers in Planning, Alan M. Voorhees, CE:Sept 69:96
Opportunities in Changing Federal System, Larry Rice, UP1:Mar 74:73:10423
Optimum Housing Allocation Model for Urban Areas, R. S. Atkins and Edward M. Krokosky, UP1:Apr 71:41:8022
An Overview of Contemporary Approaches and Concepts in Metropolitan Water Management, George F. Mangan, Jr., UWRM:71:75
Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Planning for Memphis Medical Center Traffic and Parking, Wm. H. Claire and Randall A.P. Johnson, TE1:Feb 71:51:7882
Politics Of Water Resources Development, Daniel M. Ogden, Jr., SEA:70:353
Population and People, William H. Wisely, CE:Dec 70:27
Power Supply for the BART System, J. George Thon and Martin W. McLaren, TE1:Feb 69:97:6411
Precast Concrete in Residential Construction, Rexford L. Selbe, UP1:Mar 73:93:9596
A Program For New Towns, Ira J. Bach, UP1:Apr 71:55:8059
"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73:59
Real-Time Computer Control of Urban Runoff, James J. Anderson, HY1:Jan 70:153:7028
Recommendations for Urban Health, Everett MacLeman, CEWAU:74:158
Re-Cycling of Land Resources, Neville Borg, PWS:Nov 72:39
Recycling of Land Resources, Ellis L. Armstrong, PWS:Nov 72:57
Regional Control Supplied by Photogrammetry, G. Carper Tewinkel, SU1:May 71:13:8136
Regional Water Resources Planning: A State View, Guy J. Kelnhofer, Jr., UWRM:71:111
Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942
Societal Factors and Tall Buildings, State-of-Art Report 2, Charles Brownstein and Leonard Ruchelman, TB:72:C-AC19-151
Socio-Technical Programs in Civil Engineering at O.S.U., Michael B. Godfrey and Elbert E. Whitlatch, Jr., CEE:Feb 74:1-713
Some Notes on Approaches and Viewpoints of Private Agencies to Metropolitan Water Management, Stifel W. Jens, UWRM:71:47
Some Urban Water Resources Mangement Dimensions, D. Earl Jones, Jr., UWRM:71:14
Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1
System Dynamics Approach to Urban Planning, K. Preston White, Jarir S. Dajani and Donald Wright, UP1:Mar 74:43:10388
Tall Buildings in Antiquity, Douglas D. Feaver, TB:73:Ia-1-251
Tall Buildings in the World (The Viewpoint of a Non-American), Duiliu Sfintesco, TB:73:C-13
Team Effort, Robert J. Young, TB:73:C-DM-215
Testing Methods for Determination of Urban Runoff, Constantine N. Papadakis and Herbert C. Preul, HY9:Sept 73:1319:9987
Towards New Towns for America-Slowly, George C. Bestor, UP1:Mar 73:47:9591
Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
Trends in Residential Development, George C. Bestor, CE:Sept 69:83
The Unheavenly City, by Edward C. Banfield (Book Review), Darrell J. Turner, CE:Sept 70:116
The Urban and Environmental Engineering Program at the University of North Carolina at Charlotte, Jack B. Evett, CEE:Feb 74:1-90
Urban Commodity Flow - Suggested Research Projects, Warren B. Lovejoy, UP1:July 72:55:9047
Urban Degradation and Building Systems, Murray A. Muspratt, UP2:Sept 73:235:10003
Urban Growth and Public Works Planning, John Armour, PWS:Nov 72:3
The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
Urban Mass Transportation Planning, Lyle G. Wermers, UP1:Mar 70:41:7128
Urban Planning and Development of River Cities, Arnold H. Vollmer, UP1:Mar 70:59:7144
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93
Urban Renewal-Past, Present and Future, John W. Shively, CE:Sept 69:61
Urban Runoff by Linearized Subhydrographic Method, Jong-Song Chien and Krishan K. Saigal, HY8:Aug 74:1141:10766
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420

Urban Systems Planning: Implications for Civil Engineering Education, Ata M. Khan, CEE:Feb 74:1-164
Urban Water Resources—Some Planning Fundamentals, Lawrence S. Costello, UP1:Mar 74:57:10413
Venice Waterways Project Impact Reports, Donald C. Tillman and Lloyd D. Paulsen, UP2:Nov 74:191:10935
Walt Disney World -- A Philosophy of Planning, William E. Potter, PWS:Nov 72:71
Waterfront Renewal in Metropolitan Areas, Donald F. Wood, UP4:Dec 67:199:5673

Urbanization

Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024
Effect of Urbanization on Storm Water Peak Flows, Pedro C.C. DaCosta, SA2:Apr 70:187:7198
Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672
Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72:1575:9206
New Concepts in Suburban Drainage in Florida, Kenneth A. Bryant, Jr. and James N. Krider, IR73:Aug 73:471
Operation and Maintenance of an Irrigation District in an Urbanizing Environment, R. E. Moore, D. L. Weesner and T. M. Sabin, IRS:Sept 72:243

Urban Planning

The Aftereffects of Annexation--A Case Study, Russell E. Helms, UP1:Apr 69:15:6490
Aircraft Noise: Fugitive Factor in Land Use Planning, Dorn C. McGrath, UP1:Apr 69:73:6520
Air Pollution Patterns in an Urban Street Canyon, Frederick A. Brunner and Karl B. Schnelle, Jr., EE2:Apr 74:311:10447
Amortization of Nonconforming Uses in Flood Plains, William R. Walker, UP1:Mar 70:1:7125
Analysis of Need for Goods Movement Forecasts, Davit Fresko, Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017
Analysis of Transportation Planning Education, Lester A. Hoel, TE2:May 70:123:7255
Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
Architectural Barriers and the Problems of the Handicapped, Edward H. Noakes, MTI:May 72:51
Basic Contemporary Urban Problems, Felipe U. Derteano, UP2:Oct 70:133:7608
Basic Needs of Urban Water Management on the Firing Line, Robert C. McWhinnie, UWRM:71:8
Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
Behavioral Sciences Investigation, James Kise, ABS:71:101
The Bicycle Anarchy, James L. Konski, TE4:Nov 73:757:10120
The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66
Charting New Transportation Environment, John A. Osborn, SU2:Sept 70:265:7565
Chicago's Crosstown Expressway, Milton Pikarsky, CE:Sept 70:84
Choice-HUD's Blueprint for a Better Tomorrow, Byron R. Hanke, CE:Sept 69:49
Cities Solve Problems, John V. Lindsay, TB:73:C-DM-211
The City is the People--So is the Planning/Building Process, Morton Hoppenfeld, ABS:71:91
City Planning Bibliography, George C. Bestor and Holway R. Jones, CPB:72, 518pp.
Civil Engineering and Urban Systems, George L. Peterson, Robert S. Gemmell and Richard D. Worrall, UP1:Apr 69:1:6501
The Civil Engineer in Urban Affairs and Planning, Sigurd Grava, CEE:Feb 74:1-173
Civil Engineers in Urban Planning, Fifty Years of Accomplishment, 1923-1973, Lawrence E. Miller, Chmn., UP2:Nov 74:115:10939
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
Community Decision Structure and Urban Planning Process, Thomas J. Hillegass, Charles C. Schimpeler and William L. Grecco, UP1:Mar 70:17:7126
Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600
Contributions of the Federal-Aid Highway Program, Francis C. Turner, CE:June 70:71
Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183
A Draft ASCE Statement on the Role of the Civil Engineer in the Planning and Development of New Communities in the United States Urbanization and Settlement, CE:June 73:62
Econometric Model to Aid in Urban Planning Decisions, A. F. Brotchie, Ron Sharpe and A. Raymond Toakley, UP1:Mar 73:25:9587
Economics of Solid Waste Investment Decisions, Robert M. Clark, UP1:Mar 70:65:7151
Effect of Transportation Planning on Flood Plain Management, Thomas M. Lee, HY3:Mar 72:475:8761
Electric Utility Problems in Meeting Urban Planning Requirements, Alfred R. Golze, UP2:Sept 73:193:10016
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
Environmental Aspects of River Basin Planning, Maynard M. Hufschmidt, HY6:Nov 67:323:5605
Environmental Factors in Passenger Terminal Design, John J. Fruin, TE1:Feb 72:89:8734
Environmental Health and Community Planning, Joseph A. Salvato, Jr., UP1:Aug 68:23:6084
Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202
Environmental Systems, Summary Report, Henry J. Cowan, TB:73:Ia-1-289
Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7
Environment by Design, William L. Slayton, CE:Oct 71:85
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
Evaluating Regional Plans and Community Impacts, Joseph L. Schofer and Darwin G. Stuart, UP1:Mar 74:93:10412
Express Bus Mass Transit, Joseph Barnett, TE2:May 70:133:7256
Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970
Forecasting Water Demands and Systems Capabilities, Wyndham J. Roberts, Sandor C. Csallany and Neil G. Towery, SA6:Dec 70:1349:7745
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
General Aviation's Urban Airport Capacity Problem, Walter E. Gillfillan, TE1:Feb 70:79:7109
Goal Formulation for Socio-technical Systems, G. Scott Rutherford, Joseph L. Schofer and Martin Wachs, UP2:Sept 73:157:9985
Goals and Objectives, Elizabeth J. McLean and Martin E. Goldsmith, MTI:May 72:267
Goals for Dallas Program, Erik Jonsson, CE:Sept 72:58
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
A Guide for Urban Planning-Chapter IV: Commercial Land Planning, Fred W. Tuemmler, UP1:Aug 68:31:6086
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Homogeneity Analysis and Planning Studies, Robert E. Paaswell, UP2:Dec 71:125:8561
HUD Sewer Policy in Urban Renewal Areas, Francis J. Blesso, UP1:July 72:33:9035

Improvement of Land Titles, Robert Lewis Zeman, SU1:May 71:113:8132
Inadvertent Weather and Precipitation Modification by Urbanization, Stanley A. Changnon, Jr., IR1: Mar 73:27:9608
Instruction in Urban Planning for Civil Engineers, Peter S. Parsonson, UP1:Mar 70:23:7127
Integrated Information Systems for Utilities, Brian W. Mar, UP2:Sept 73:123:9984
Integrating the Planning and Management of Metropolitan Water Resources into a Regional Context, Alexander B. Bigler, UWRM:71:81
An Interdisciplinary Graduate Program, Robert Burnham, Volker Hartkopf, Edward M. Krokosky and Irving J. Oppenheim, CEE:Feb 74:1-179
Introduction to Tall Buildings Proceedings, Lynn S. Beedle, TB:73:C-1
Is Joint Development the Chicken, or the Egg?, Constantine Sidamon-Eristoff, TE3:Aug 71:469: 8315
La Defense, Duiliu Sfintesco, TB:73:Ia-1-274
Location Models: Solid Waste Collection Example, David H. Marks and Jon C. Liebman, UP1:Apr 71: 15:8027
Markov Renewal Model of Linked Trip Travel Behavior, Gorman Gilbert, George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112
Mass Transit - Panacea for Urban Problems, E. L. Tennyson, NA:Mar 71:41
Master Planning Methodology for Urban Drainage, Harold F. Bishop, HY1:Jan 74:189:10290
Mathematical Models of Location: A Review, David H. Marks, Charles S. ReVelle and Jon C. Liebman, UP1:Mar 70:81:7164
The Metropolis Runs Dry, Richard A. Hogarty, SEA: 70:329
Metropolitan Planning and Implementation, Robert C. Einsweiler, UP2:Oct 70:113:7581
Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72: 431:9075
Mobile Home Parks and American Municipalities, Stephen Sussna, UP2:Dec 71:139:8562
Multiservice Transport Systems for Urban Mobility, Leon Monroe Cole, UP1:Apr 71:31:8025
Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502
National Mapping for Urban Areas, Robert H. Lyddan, SU2:Sept 70:143:7520
Nature of and Need for Interdisciplinary Attacks on Problems of Urban Water Management, J. Ernest Flack, UWRM:71:106
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032
New Centers for Regional Development, Ronald Greenwald, CE:Sept 69:79
The New City of Columbia, Md., Edwin Baker, CE: Sept 70:57
New Town Planned Around Environmental Aspects, Ralph C. Everhart, CE:Sept 73:69
The Nixon Administration and the City, E. E. Halmos, Jr., CE:Sept 69:98
Noise Control in Urban Planning, Clifford R. Bragdon, UP1:Mar 73:15:9590
Now That You Have One, What Have You Done For Your Bikeway Lately?, John M. Freiermuth, BP73:Dec 73:151
Opening Remarks to Tall Buildings Conference, Le-Wu Lu, Conference Chairman, TB:73:C-19
Opportunities for Civil Engineers in Planning, Alan M. Voorhees, CE:Sept 69:96
Optimal Routing of Refuse Collection Vehicles, Richard M. Bodner, E. Alan Cassell and J. Peter Andros, SA4:Aug 70:893:7451
Optimum Housing Allocation Model for Urban Areas, R. S. Atkins and Edward M. Krokosky, UP1:Apr 71:41:8022
Participation Planning for Boston Metro-Area Transportation, John G. Wofford, CE:Apr 73:78
Patterns of Mobility of Working Poor, Arthur Saltzman and Alice E. Kidder, TE3:Aug 74:769: 10760
Pedestrian Precincts in City Centers, Robert Sewall Browne, BP73:Dec 73:248
Pedestrian System Planning for High Rise Buildings, John J. Fruin, TE3:Aug 74:675:10741
Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
People, Planning, and the Political Process, Norman E. Jackson, PL1:Oct 68:29:6158
Plan for Financing Urban Mass Transit Systems, Robert T. Howe, TE2:May 70:219:7286
Planning Airports System in Paris Area, Jacques V. Block, TE2:May 69:253:6535
Planning and Designing for the Pedestrian Environment, Anthony R. Ameruso, BP73:Dec 73: 204
Planning and Engineering by Agency-Consultant Team, Louis W. Riggs, UP2:Oct 70:105:7585
Planning for a New Town, Daniel W. Moore, UP1: Apr 71:79:8065
Planning Implications of Urban and Rural Freeway Interchanges, Herman A.J. Kuhn, UP1:Apr 69:81: 6521
Planning Standards for Storm Drainage, Myron D. Calkins, UP1:Mar 70:53:7133
Power Supply for the BART System, J. George Thon and Martin W. McLaren, TE1:Feb 69:97:6411
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205: 9971
Principles and Procedures in Flood Plain Management, James E. Goddard and John W. Weathers, HY4:July 69:1321:6696
A Program For New Towns, Ira J. Bach, UP1:Apr 71:55:8059
Promotion as a Bikeway Planning Factor, Norman R. Hawirko, BP73:Dec 73:661
Proposals for Gaining Acceptance for Gaining Acceptance for Urban Freeways, Andrew S. Balbiani, Richard J. Naish and Daniel M. Reisner, TE4:Nov 70:585:7672
Public Participation in Urban Water Planning, Thomas C. Ferrara, Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585
Quantifying Impact of Transportation Systems, William L. Smith, UP1:Mar 74:79:10416
Recommendations for Urban Health, Everett MacLeman, CEWAU:74:158
Recycling of Land Resources, Ellis L. Armstrong, PWS:Nov 72:57
Regional-Local Conflicts in Transportation Planning, Harvey R. Joyner, TE3:Aug 72:515:9136
Regional Water Resources Planning: A State View, Guy J. Kelnhofer, Jr., UWRM:71:111
Report Relating the Impact of Mobile Homes on Urban Plans and Housing Systems by the Task Committee on Mobile Home Parks of the Urban Planning and Development Division, Charles O. Quade, Chmn., UP1:Mar 74:7:10385
Research on Safety and Locational Criteria for Bicycle Facilities, Daniel T. Smith, Jr., BP73:Dec 73:134
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
Revolution in Urban Highway Planning, ASCE Committee on Highway Planning and Economics of the Highway Division, Dana E. Low, Chmn., TE1: Feb 71:145:7916
Routing for Public Service Vehicles, David H. Marks and Robert Stricker, UP2:Dec 71:165:8573
San Antonio: Classic "Stop the Freeway" Case, Virginia Fairweather, CE:July 73:59
San Francisco Freeway Revolt, William H. Lathrop, Jr., TE1:Feb 71:133:7876
Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280
Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
Shopping Centers Development Team, J. Ross McKeever, CE:Sept 69:89
Social Considerations of Urban Transportation Systems, Robert L. Morris, TE3:Aug 70:333:7471

Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139
Solid Waste Management: Equity Trade-Off Models, Louis A. Fuertes, James F. Hudson and David H. Marks, UP2:Nov 74:155:10913
Some Notes on Approaches and Viewpoints of Private Agencies to Metropolitan Water Management, Stifel W. Jens, UWRM:71:47
Some Thoughts on Urban Transportation Goals and Objectives, Milton Pikarsky, NA:Mar 71:25
Some Urban Water Resources Mangement Dimensions, D. Earl Jones, Jr., UWRM:71:14
The State Of The Art of Planning, William S. Pollard, Jr. and Daniel W. Moore, UP1:Apr 69:27:6517
Storm Drainage Practices of Thirty-two Cities, Colby V. Ardis, Kenneth J. Dueker and Arno T. Lenz, HY1:Jan 69:383:6365
System Dynamics Approach to Urban Planning, K. Preston White, Jarir S. Dajani and Donald Wright, UP1:Mar 74:43:10388
Systems Analyst's View of Noise and Urban Planning, Martin Wachs and Joseph L. Schofer, UP2:Oct 70:147:7639
Systems Innovations for Urban Transportation, Robert A. Burco and Clark D. Handerson, TE2: May 71:205:8126
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91
Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991
Technical Movie of Papago Freeway, John Girand, TE4:Nov 71:619:8506
Test of Air Cushion Vehicles in Public Transport, John L. Lambert, TE1:Feb 69:29:6391
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4: Nov 72:799:9362
Towards New Towns for America-Slowly, George C. Bestor, UP1:Mar 73:47:9591
Transformation of Plans into Actions, Johannes W Kurz, UP2:Sept 73:183:10029
Transient (Dual) Zoning, Murray I. Mantell, UP1: Mar 74:1:10386
Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592
Transportation and Urban Renewal - Experience in the United Kingdom, William K. Mackay, UP1:Mar 73:1:9624
Transportation in Regional Plan for 1970's, W. John Hossack and J. Richard Hocking, TE4:Nov 70:633:7648
Transportation-Role for Civils, Wilbur S. Smith, TE1: Feb 69:111:6414
Trends in Offshore Airports, Richard D. Harza, TE4: Nov 72:985:9343
Trends in Residential Development, George C. Bestor, CE:Sept 69:83
Two Means of Alleviating Rush-Hour Crowding, Charles Libove, TE4:Nov 73:845:10144
Urban Engineering in the University, William T. Hafferty, PP1:Sept 70:15:7547
Urban Growth and Public Works Planning, John Armour, PWS:Nov 72:3
Urbanization's Drainage Consequence, Paul O. Reimer and Joseph B. Franzini, UP2:Dec 71:217:8600
Urban Mass Transportation Planning, Lyle G. Wermers, UP1:Mar 70:41:7128
Urban Planning and Development of River Cities, Arnold H. Vollmer, UP1:Mar 70:59:7144
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93
Urban Riverside Environmental Analysis, J. Robert Moore, UP1:Apr 71:105:8066
Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
Urban Systems Planning: Implications for Civil Engineering Education, Ata M. Khan, CEE:Feb 74: 1-164
Urban Transportation, Murray A. Muspratt, TN: TE1:Feb 73:193:9529
Urban Transportation Needs: Problems and Solutions, Austin E. Brant, Jr., Dana E. Low and Gerald P. Shea, NA:Mar 71:13
Urban Water Planning and Management: A Conceptual Framework and Problem Focus, John R. Sheaffer, UWRM:71:5
Use of Air Space Over Freeway Systems, Lyall A. Pardee, UP1:Apr 69:61:6519
User Oriented Approach to Housing Design for Indians, Richard D. Bauman and Arn Henderson, UP1:Mar 74:29:10384
Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996
Water Resources and Regional Land-Use Plan, James C. Ringenoldus, SA6:Dec 70:1311:7735
Water Resources as an Element of Urban Planning, Matthew L. Rockwell, UP1:Aug 68:1:6056
Water Resources Planning in Appalachia, Stephen S. Fuller, UP2:Oct 70:123:7599
What's New in Water and Sewer Pipe?, CE:Oct 70: 46
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054

Urban Relocation

General Introduction, Daniel Brand, UTI:71:5
Introduction to Section II: Innovative Transportation Prototypes, Paul L. Sitton, UTI:71:79

Urban Renewal

Case Studies of Interdisciplinary Team Efforts in Environmental Design, Eugene D. Jones, ABS:71: 75
Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462
Cities Solve Problems, John V. Lindsay, TB:73:C-DM-211
Clinton Square, Welton Becket and Associates, TB: 73:C-P-338
Evaluation of National Priorities: The Post Interstate Highway System, Paul L. Sitton, UTI:71:3
Experiences with Interdisciplinary Teams, Norman M. Klein, ABS:71:83
Fulton Arcade (A Pedestrian/Transitway in Downtown Brooklyn), Richard M. Rosan, BP73: Dec 73:80
HUD Sewer Policy in Urban Renewal Areas, Francis J. Blesso, UP1:July 72:33:9035
One Hundred Summer Street, Welton Becket and Associates, TB:73:C-P-314
Selected Bus Demonstration Projects, Louis J. Pignataro, John C. Falcocchio and Roger P. Roess, TE3:Aug 70:251:7454
Tour Apogee, Skidmore, Owings & Merrill, TB:73: C-P-486
Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
Transportation and Urban Renewal - Experience in the United Kingdom, William K. Mackay, UP1:Mar 73:1:9624
The Unheavenly City, by Edward C. Banfield (Book Review), Darrell J. Turner, CE:Sept 70:116
Urban Degradation and Building Systems, Murray A. Muspratt, UP2:Sept 73:235:10003
Urban Renewal in White Plains, N.Y., J. Michael Divney, CE:Sept 69:69
Urban Renewal-Past, Present and Future, John W. Shively, CE:Sept 69:61
Watts Revisited: Transportation and Community Values: Century Freeway, Stuart L. Hill, CE:Sept 69:56

Urban Sociology

CE Students Learn Through Socially Useful Projects, Fred Lamar, CE:Jan 71:60
Community Decision Structure and Urban Planning Process, Thomas J. Hillegass, Charles C. Schimpeler and William L. Grecco, UP1:Mar 70:17:7126

Mathematical Models of Location: A Review, David H. Marks, Charles S. ReVelle and Jon C. Liebman, UP1:Mar 70:81:7164

Urban Transportation

Alternative Paths to Guideway Transportation, William F. Hamilton, UTI:71:385

Analyzing Urban Transporatation Innovations, Joseph L. Schofer, UTI:71:187

Architectural Barriers and the Problems of the Handicapped, Edward H. Noakes, MTI:May 72:51

Assessing Impact of Urban Transportation, David E. Boyce, TE3:Aug 72:645:9111

Assessing the Prospects of Current Transit Proposals, Martin Wohl, UTI:71:43

Automobile Energy Requirements, Eric Hirst, TE4: Nov 74:815:10909

Balancing Transportation, John E. Hirten, BP73:Dec 73:1

BART Rail Transit System Begins Operations, CE: Nov 72:63

The Basic Inadequacy of Conventional Urban Transportation Modes, Ben Alexander, UTI:71:59

Bridge To Europe, Laurence E. Rohter, CE:Mar 73: 61

Carpools - the Underutilized Mode, Lew Pratsch, CE:Jan 74:49

Chicago's Crosstown Expressway, Milton Pikarsky, CE:Sept 70:84

Citizens--A Vital Part of Transportation Planning, Arnold M. Cogan and Wallace A. Dela Barre, TN: TE1:Feb 74:289:10311

The City Viewpoint on Environmental Issues, Milton Pikarsky, UT73:May 73:1

Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1: Feb 73:53:9518

Converting a Railroad to a First Class Suburban Rail Transit System - Under Traffic, Donald O. Eisele, NA:Mar 71:181

Correlation of Environmental Impact Evaluations and Highway Transportation Planning, Gerald D. Love, UT73:May 73:71

Current Mass-Transit Proposals: Answer to Our Commuter Problem?, Martin Wohl, CE:Dec 71:68

Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4: Nov 72:807:9320

Demand Responsive Transportation Systemp, Daniel Roos, UTI:71:123

Demand Responsive Transportation Systems, Daniel Brand, UTI:71:327

Designing Transportation for People, James M. Beggs, MTI:May 72:7

Design of Pedestrian Facilities for the Washington Metro, Melvin Siegel, BP73:Dec 73:420

Escalators in Rapid Transit Stations, Robert S. O'Neill, TE1:Feb 74:1:10333

Esthetics of Urban Transportation Facilities, Charles E. De Leuw, TE1:Feb 69:23:6390

Estimating Travel Times on Highway Networks, Joseph M. Sussman, Ho-Kwan Wong and Roger Miller, TE1:Feb 74:13:10335

Evaluation of National Priorities: The Post Interstate Highway System, Paul L. Sitton, UTI:71:3

Evaluation of Urban Road Projects, Alfred Goldstein, PWS:Nov 72:203

Financing Metro, William I. Herman, TE4:Nov 70: 571:7680

Four Freeway Fallacies, San Francisco Section, ASCE Highway Technical Division Task Force, Henry K. Evans, Chairman, CE:Mar 71:72

Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923

Full Compensation and Transportation Corridor Analysis, Joseph R. Passonneau, TE2:May 73:393: 9746

Future Transportation Planning for People by UMTA, Carlos C. Villarreal, MTI:May 72:17

Heuristic Scheduling Procedures for PRT System, Patrick R. Esposito, TE4:Nov 74:845:10910

The Identification of Transportation Demand, Richard de Neufville and Joseph H. Stafford, UTI: 71:281

The Impact of Staggered Work Hours on Public Transportation, Roger H. Gilman, NA:Mar 71:91

Implementing an Exclusive Bus Lane on the New Jersey Approaches to the Lincoln Tunnel, Leon Goodman, NA:Mar 71:149

Improving Urban Bus Operations, Michael G. Ferreri, TE3:Aug 70:319:7465

Improving Urban Highway Transportation through Electronic Route Guidance, Rinaldo Favout, UTI: 71:141

Infrastructure Planning: Force Behind Port of Rotterdam's Growth, Sverre E. Bergh, CE:May 71: 79

Introduction to Section III: Analyzing Innovative Transportation Alternatives, Daniel Brand, UTI:71: 185

Introduction to Section I: Problem Definition, Daniel Brand, UTI:71:1

Introduction to Section IV: Transportation Innovation -- Directions and Strategy, Charles Baker, Chmn., UTI:71:325

Investing in Urban Bicycle Facilities: How Much? What Type? Where?, Richard C. Podolske, BP73: Dec 73:596

Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953

Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740

Mass Transit - Panacea for Urban Problems, E. L. Tennyson, NA:Mar 71:41

Measuring and Interpreting Consumer Preferences, Siegfried M. Breuning, UTI:71:307

Modeling Transportation Impact on Air Quality, Ralph C. Sklarew, D. Bruce Turner and John R. Zimmerman, UT73:May 73:127

The Morgantown Personal Rapid Transit Project, Bernard J. Vierling, BP73:Dec 73:483

Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096

Multiservice Transport Systems for Urban Mobility, Leon Monroe Cole, UP1:Apr 71:31:8025

Need for Competent Engineering for Transit Systems, Louis T. Klauder, TN: TE3:Aug 73:9899

Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032

New Approaches to Urban Transportation Needs, Jack Kinstlinger, NA:Mar 71:197

New Concepts in Urban Parking, John G. Schoon and Herbert S. Levinson, TE3:Aug 74:611:10731

The Numbers Game, Arnold H. Vollmer, UT73:May 73:77

Optimizing Bus Use of Urban Highways, Herbert S. Levinson and William F. Hoey, TE2:May 74:443: 10558

Pallet System for Integrating and Automating Urban Transportation, David Gordon Wilson, UTI:71:81

Passenger Design Standards for Bay Area Rapid Transit Stations, Wilmot R. McCutchen, MTI:May 72:197

Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63

Philadelphia Regions' Urban Corridor Demonstration Program, Ira N. Pierce, NA:Mar 71:161

Planning for the Metro, Thomas B. Deen, TE3:Aug 70:349:7476

Planning Major Activity Center Distributor Systems, Michael J. Demetsky and Lester A. Hoel, TE1:Feb 74:237:10319

Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909

Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123

Pricing in Mass Transportation, Masatoshi A. Abe and Kumares C. Sinha, TE1:Feb 73:83:9551

Proposed Tracked Air Cushion Vehicle System for Los Angeles International Airport, William M. Schoenfeld, NA:Mar 71:115

Proximal Decisions in Traffic Intersections, Lloyd Sako and Samuel Zundelevich, TE3:Aug 73:597: 9915

Public Participation in Urban Transit Service, Michael G. Ferreri, TE4:Nov 73:701:10121
Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351:8888
Railroad Freight Movement—Some New Concepts and Current Plans, George A. Sargent, TE2:May 74:475:10562
Reappraising Metropolitan Transportation Needs, Thomas F. Humphrey, TE2:May 74:353:10532
The Relationship Between Highway Planning and Urban Noise, C. Michael Hogan and Gary L. Latshaw, UT73:May 73:109
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
The Role of VTOL Aircraft in Urban Mass Transportation, F. N. Piasecki, NA:Mar 71:85
Seattle's Experiment in Free Transit, Donald Munro and Brian Krinbring, CE:Aug 74:86
Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
Small Budget Rapid Transit, Louis T. Klauder, NA:Mar 71:69
Some Experience with Offering Professional Education in Urban Transportation, Lester A. Hoel, CEE:Feb 74:1-850
Some Thoughts on Urban Transportation Goals and Objectives, Milton Pikarsky, NA:Mar 71:25
Specialization of Urban Transportation Systems, Clark Henderson, UTI:71:405
StaRRcar Automatic Capsule Transportation, William L. Alden, UTI:71:113
Superconducting Levitation of High Speed Vehicles, Vincent D. Arp, Alan F. Clark and Thomas M. Glynn, TE4:Nov 73:873:10163
Systematically Analyzing Transportation Alternatives, Marvin L. Manheim and Earl R. Ruiter, UTI:71:207
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41
Transportation Access to Special Generators, Frederick J. Wegmann, John Ojo and Michael Kennedy, TE3:Aug 74:643:10728
Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341
Transportation and Urban Renewal - Experience in the United Kingdom, William K. Mackay, UP1:Mar 73:1:9624
Transportation Innovation and the Manufacturer, Richard H. Shackson, UTI:71:367
Transportation Innovation: Making It Profitable, C. Wade Tambor, UTI:71:421
Transportation Planning for Urban School Systems, Patrick R. Pickens and John M. Tyler, TE2:May 74:461:10555
Transportation Planning Myths and Realities, Raymond H. Ellis, UTI:71:243
Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955
An Uncommon View of the Ground Transportation Problem, Martin Wohl, TE1:Feb 69:143:6417
Urban Goods Movement Planning Methodology, Arnim H. Meyburg, Walter J. Diewald and Garrison P. Smith, TE4:Nov 74:791:10914
Urban Growth and Public Works Planning, John Armour, PWS:Nov 72:3
The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
Urban Transportation - A Persistent Paradox, John C. Kohl, NA:Mar 71:61
The Urban Transportation / Innovation Problem: Can New Concepts Help? - The Institutional Response, Michael Cafferty, UTI:71:19
Urban Transportation Needs: Problems and Solutions, Austin E. Brant, Jr., Dana E. Low and Gerald P. Shea, NA:Mar 71:13
Welcoming Statement — Subsurface Exploration for Heavy Construction, Russell K. McFarland, EFSE:Aug 74:2
What Have Transit Demonstrations Really Shown?, Calvin O. Smith, TE2:May 71:325:8097

Urethanes

California Seals Salt-Damaged Bridge Decks, Robert L. Boulware and Arthur L. Elliott, CE:Oct 71:42
Rigid Urethane Foam Cures Roof Leakage, Bruce C. Gandy, CE:July 73:73

Uscold

Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781

U.S. Corps of Engineers

Corps of Engineers Dam Inspection Program, James A. Rhodes, IMROD:Sept 73:61
Corps of Engineers Promotes Continuing Education, Melford E. Monsees, CE:Jan 72:63
Corps of Engineers Studies of Shotcrete, Thomas J. Reading, SUSS:July 73:263
Foundation Construction Problems at Corps of Engineers Projects, Paul R. Fisher, John C. Bowman, Jr. and Benjamin I. Kelly, Jr., EFFD:Mar 74:121
National Program for Inspection of Dams, John W. Morris, IMROD:Sept 73:14

Use Rates

Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841

Utah

Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395:10146
A Field Laboratory for Stratified Flow Studies, P. C. Chang and Anching Lin, ISSF:Aug 72:501
Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088
Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1
Truck escape lanes on mountain roads, Glenn S. Baldwin, CE:July 74:64

Utilities

Cooling Water Sources For Power Generation, Louis G. Hauser, PO1:Jan 71:123:7804
Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
Feasibility of Utility Tunnels in Urban Areas (Book Review), John B.W. Corey, CE:Aug 71:89
Highway and Utility Share Corridor, John Berkowitz, CE:Nov 74:61
Integrated Information Systems for Utilities, Brian W. Mar, UP2:Sept 73:123:9984
Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65
Joint Use of Rights-of-Way Can Reduce Costs of Services, T. W. Mermel, CE:Mar 69:56
Mobile-Home Parks, David A. Alley, Ivan Orton and John L. Young, CE:Sept 71:88
Multibarrier Containment for Nuclear Power Plants, Alexander C. Koehler, Delbert M. Leppke and Roy W. Corcoran, PO2:Oct 69:203:6829
Opportunity for Civil Engineers, CE:Apr 71:92
Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700
Testing Of Large Curved Prestressing Tendons, Gunnar A. Harstead, Richard E. Kummerle, John C. Archer and Mark M. Porat, PO2:Mar 71:475:7966

Utilization

Estimating Potential Bicycle Use and Public Investment, Carl E. Ohrn, BP73:Dec 73:582

Evaluation of Airfield Performance by Simulation, Austin E. Brant, Jr. and Patrick J. McAward, Jr., TE2:May 74:505:10552

Vacuum
Behavior of Returned Lunar Soil in Vacuum, W. David Carrier, III, Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156

Vacuum Cleaners
Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363

Value
Reward-Risk Ratio, Marvin Gates and Amerigo Scarpa, CO4:Dec 74:521:10984

Value Engineering
At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73:72
Bridge Design Considering Scour and Risk, Emmett M. Laursen, TE2:May 70:149:7262
Contracting Practices, State-of-Art Report 1, Charles A. DeBenedittis, TB:73:Ia-4-669
Control of Quality-A System, Edward A. Abdun-Nur, CO2:Oct 70:119:7576
Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72
Flathead Railroad Tunnel Construction, Hans Sacrison, CO1:Mar 71:127:8009
Optimization of Long-Span Cold-Formed Truss Purlins, Richard T. Douty and James O. Crooker, ST11:Nov 74:2275:10952
Optimum Design of Framed Structures, Karl M. Romstad, ST:Dec 68:2817:6273
Towards an Optimum Solution for Underground Rapid Transit, Marc S. Caspe, TE1:Feb 69:157:6416
Value Engineering--A Logical Technique for Earth Dam Construction, Chung Y. Li, CE:June 69:83

Values
Consideration of Alternatives in Decision Making, Ellis L. Armstrong, EI2:Apr 74:119:10498
Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421

Valves
Analysis of Vibration of Hollow-Cone Valves, Chungsu Wang, EM6:Dec 73:1147:10215
Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB:Aug 73:141
Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678
Cavitation Scale Effects for Valves, J. Paul Tullis, HY7:July 73:1109:9874
Choking and Supercavitating Valves, J. Paul Tullis, HY12:Dec 71:1931:8593
Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
Float Valve Provides Variable Flow Rates at Low Pressures, John L. Merriam, IR73:Aug 73:385
Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465
High Head Gates and Valves in the United States, Cortland C. Lanning, Chmn., HY10:Oct 73:1727:10107
Mechanical Equipment at Edmonston Pumping Plant, Samuel Fong, CO3:Sept 74:279:10794
Mechanical Equipment Problems on Old Dams, Fred Engstrom, IMROD:Sept 73:440
Reducing Cavitation in Valves, J. Paul Tullis and Morris M. Skinner, HY6:Nov 68:1475:6255
Self-Closing Irrigation Pipe Valve, Howard R. Haise and Meredith L. Payne, TN: IR3:Aug 72:517:9160
Valve Stroking in Separated Pipe Flow, Morris Driels, HY11:Nov 74:1549:10940
Water-Hammer Charts for Various Types of Valves, Don J. Wood and S. E. Jones, HY1:Jan 73:167:9500

Vane Shear Tests
Case History -- Embankment Failure on Soft Varved Silt, Richard S. Haupt and James P. Olson, PES:72:I-1
Collapse of Fargo Grain Elevator, Reymond L. Nordlund and Don U. Deere, SM2:Mar 70:585:7172
A Direct-Reading Pocket Shear Vane, Stanley Serota and Anil Jangle, CE:Jan 72:73
Failure of a Test Embankment on Sensitive Clay, Oscar Dascal, J. P. Tournier, Francois A. Tavenas and Pierre La Rochelle, PES:72:I-129
Foundation Failure of the Vankleek Hill Tower Silo, Michael Bozozuk, PES:72:I-885
Torsional Stiffness of Embedded Footings, Movses J. Kaldjian, SM7:July 71:969:8241

Variability
Some Factors Influencing Required Reservoir Storage, Stephen J. Burges and Ray K. Linsley, HY7:July 71:977:8227

Variable Costs
Predesign Cost-Estimation Function for Buildings, CO4:Dec 74:589:10992

Variance (Statistics)
Assessing and Reporting Uncertainties, State-of-Art Report 1, Carl J. Turkstra and Haresh C. Shah, TB:73:Ib-10-919
Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4:Aug 73:479:9943
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
Variational Principles for Flow in Porous Media, Shlomo P. Neuman and Paul A. Witherspoon, EM2:Apr 71:359:8023

Variations
Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
Inelastic Finite Deformation of Planar Frames, Raouf A. Ridha and Lawrence H. N. Lee, EM3:June 71:773:8198

Vector Analysis
Elements of Random Vector Analysis, Robert M. Stark and Devendra K. Shukla, TN: EM2:Apr 73:434:9641
Three-Dimensional Forward and Inverse Computations, William E. Ball, Jr., SU2:Nov 72:167:9361
Three-Dimensional Resection--A Vector Approach, William E. Ball, Jr., SU1:Sept 73:87:10007
Vectors in Dimensional Analysis, Johannes Gessler, EM1:Feb 73:121:9561

Vectors (Mathematics)
Vectors in Dimensional Analysis, Johannes Gessler, EM1:Feb 73:121:9561

Vegetables
Water Use and Production of Trickle Irrigated Onions, Theodore C. Patterson, IR73:Aug 73:317

Vegetation
A Criterion for Vegetation Stiffness, Nicholas Kouwen and A. Harrington, IR73:Aug 73:273
Ecological Assessment of Transportation Alternatives, Jason M. Cortell and Donald A. Yonika, UT73:May 73:143
Estimation of Phreatophyte Water Use, William C. Hughes, IRS:Sept 72:191
Flow Resistance from Cylindrical Roughness, Soronadi Nnaji and I-pai Wu, IR1:Mar 73:15:9612
Hydrologic Simulation Procedures As Applied To Vegetation Management, George Fleming, SEA:70:269

Reinforcement and Stabilization of Soil by Vegetation, Donald H. Gray, TN: GT6:June 74: 695:10597
Simulation of Water Yield from Devegetated Basins, George Fleming, IR2:June 71:249:8175
Some Ecological Criteria for the Preparation and Review of Environmental Impact Statements, Conrad A. Istock, UT73:May 73:163
Vegetation Management To Increase Water Yield, Herbert C. Storey and Irvin C. Reigner, IAWM:72: 271
Watershed Vegetation Management-A Wildlife Habitat Opportunity, D. J. Neff and B. Bristow, IAWM:72:347

Vegetation Effects

Effects of Deforestation on Water Quality, Gene E. Likens, IAWM:72:133
Highway Noise and Acoustical Buffer Zones, Asadullah Zulfacar and C. Scott Clark, TE2:May 74:389:10520

Vegetation Regrowth

A Criterion for Vegetation Stiffness, Nicholas Kouwen and A. Harrington, IR73:Aug 73:273

Vehicles

Analysis of Dynamic Response of Highway Bridgeu, Anestis S. Veletsos and Tseng Huang, EM5:Oct 70: 593:7591
Behavior and Transit Vehicle Design, Robert Lepper, MTI:May 72:37
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
Designing Fail-Safe Structures of Highway Safety, Flory J. Tamanini, TE2:May 71:305:8150
Determination of Wheel Trajectories, Ezra Hauer, TE4:Nov 70:463:7653
Engineering Guidelines for Highway Noise Shield Design, J. Kenneth Manhart, TE4:Nov 74:909: 10926
Escalators in Rapid Transit Stations, Robert S. O'Neill, TE1:Feb 74:1:10333
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
FHWA Traffic Research Program, Carl F. Izzard, TE2:May 71:333:8133
Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72
Heuristic Scheduling Procedures for PRT System, Patrick R. Esposito, TE4:Nov 74:845:10910
Incorporating Highway Safety into Level of Service, Walter J. Diewald, TE2:May 74:417:10557
Modeling Alternative Vehicle Related Pollutant Emission Control Strategies in Chicago, J. E. Norco, K. G. Croke and R. E. Wendell, UT73:May 73:89
Multiservice Transport Systems for Urban Mobility, Leon Monroe Cole, UP1:Apr 71:31:8025
Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728
Paved Highway Shoulders and Accident Experience, Clinton L. Heimbach, William W. Hunter and George C. Chao, TE4:Nov 74:889:10921
Pedestrian Precincts in City Centers, Robert Sewall Browne, BP73:Dec 73:248
People Handling Systems at Tampa International Airport, Marjorie Brink, MTI:May 72:223
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Potential Applications of People Mover Systems, Herbert S. Levinson, MTI:May 72:281
STOL Passenger Demand in Underdeveloped Areas, Jason C. Yu, TE3:Aug 71:475:8298
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72: 13:8625
Test of Air Cushion Vehicles in Public Transport, John L. Lambert, TE1:Feb 69:29:6391
Two Means of Alleviating Rush-Hour Crowding, Charles Libove, TE4:Nov 73:845:10144
Urban Gravity-Vacuum Transit System, Lawrence K. Edwards, TE1:Feb 69:173:6423
Urban Mass Transportation: Review and Analysis, Stewart F. Taylor and Louis W. Petulla, TE2:May 70:175:7277

Vehicular Traffic

Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
Transportation-Role for Civils, Wilbur S. Smith, TE1: Feb 69:111:6414

Vehicular Traffic Control

Benefits from TOPICS-type Improvements, H. Jack Leonard, CE:Feb 71:62
Flow Through Rockfill Dam, Horace A. Johnson, SM2:Feb 71:329:7914
Major Research Studies on Signs, Lights and Guardrails, James R. Novak and Krieger W. Henderson, Jr., TE4:Nov 70:523:7663
Metropolitan Toronto Traffic Surveillance and Control System, J. T. Hewton, CE:Feb 69:40

Vehicular Tunnels

BART in Operation—Innovations in Rapid Transit, William A. Bugge, TE2:May 74:335:10522
Longest Vehicular Rock Tunnel in North America, Gilbert A. Bonforte, CE:Oct 74:56
Opening Remarks — Subsurface Exploration for Heavy Construction, Steven I. Majtenyi, EFSE:Aug 74:8
State of Practice — Subsurface Investigation for Highway Tunnels, David S. Gedney, EFSE:Aug 74: 36
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
Subsurface Investigation System Planning for Highway Tunnels, James L. Ash, Bruce E. Russell and Robert R. Rommel, EFSE:Aug 74:97
Use of Shotcrete for Tunnelling in Difficult Grounds, Pericle Quadrio Curzio, Glauco Barazzoni, Fiorenzo Nobili and Alessio Anselmi, SUSS:July 73:79
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72: 235:9173
Welcoming Statement — Subsurface Exploration for Heavy Construction, Russell K. McFarland, EFSE: Aug 74:2

Velocity

Anemometer Height in Froude Scaling of Wind Stress, Jin Wu, WW1:Feb 71:131:7873
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
Avalon Transportation Wharf, James W. Dunham, WW2:May 71:371:8104
Boundary Shear Stress in Rivers and Estuaries, Ronald E. Nece and Dungan J. Smith, WW2:May 70:335:7280
Cross-Velocity Behavior in Parallel Channel Flow, James F. Wilson, EM4:Aug 69:921:6736
Designing Fail-Safe Structures of Highway Safety, Flory J. Tamanini, TE2:May 71:305:8150
The Economics and Importance of Speed, Herbert S. Levinson, HW1:June 68:1:5972
Flow Analysis of Large Triangular Weit, Donn G. DeCoursey and Bruce J. Blanchard, HY7:July 70: 1435:7405
Fluorometer Calibration Curves and Nomographs, Thomas A. Butts, SA4:Aug 69:705:6728
Integrating-Float Measurements at Low Velocities, Henry Liu and Larry D. Martin, HY1:Jan 70:143: 7027
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
Measurements of Turbulence in Water at High Velocity, Stephen C. Ko, TN: HY12:Dec 72:2253: 9397

Mechanical Equipment at Edmonston Pumping Plant, Samuel Fong, CO3:Sept 74:279:10794
Observations on Hydraulic Jumps at Rounded Step, James J. Sharp, HY6:June 74:787:10592
Particle Velocity Measurements with a Laser Device, C. A. Greated and Norman B. Webber, 12CEC:71:1951
Photomicroscopic Sublayer Velocity Measurement, Harry G. Wenzel, Jr. and Michael J. Mathews, HY12:Dec 70:2467:7724
Physical Interpretation Of Jet Dilution Parameters, James J. Sharp, SA1:Feb 68:55:5789
Robert Hooke's Water Current Meter, Circa 1663, Arthur H. Frazier, HY1:Jan 69:439:6369
Spherical Structural Systems In Fluid Media, Bijoy K. Bhattacharys and John F. Carney, III, CEO-II:70:555
Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3:June 73:283:9797
Swirling Shallow Submerged Turbulent Plumes, Jai P. Narain, HY9:Sept 74:1229:10820
Three-Dimensional Density Current, Trevor R. Fietz and Ian R. Wood, HY6:Nov 67:1:5549
Tidal Velocities Across A Partly-Completed Barrage, A. Roy Halliwell, HY5:Oct 67:85:5427
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
Unified Formulation of Wall Turbulence, Gour-Tsyh Yeh, TN: HY12:Dec 72:2263:9397
Validity Of Two-Point Method Of Velocity Sampling, Robert P. Apmann, TN: HY10:Oct 70:2171:7575
Velocities Above Rough Bed in Oscillatory Flow, John F.A. Sleath, WW4:Nov 74:287:10930
Velocity and Temperature in Buoyant Jet, Richard B. Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
Water Surface Velocities Induced by Wind Shear, Erich J. Plate, EM3:June 70:295:7351

Velocity Distribution
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6:June 72:625:8999
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF:Aug 72:527
Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72:589
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221
Mean and Turbulent Velocities for Plane Jet, Walter C. Mih and John A. Hoopes, HY7:July 72:1275:9050
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509
Speed of Ships in Restricted Navigation Channels, R. Bryan Schofield, WW2:May 74:133:10539
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73:17:9540
Velocity Measurement in Waves Using Strain Gauge Technique, Harihar Raman, Viswanatha Sethuraman and I. V. Muralikrishna, WAVES:Sept 74:817
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109

Velocity Measurement
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509
Wave-Influence on Wind Velocity Profile, Omar H. Shemdin, WW4:Nov 70:795:7661

Velocity Meters
Particle Velocity Measurements with a Laser Device, C. A. Greated and Norman B. Webber, 12CEC:71:1951

Venezuela
The Business and Practice of Foundation Engineering in Venezuela, Gustavo Perez Guerra, 4PCSM:71:II379
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10:Oct 72:995:9303
Guri Hydroelectric Project Designed for Staged Development, Hans Hasen and P. Palacios H., CE:Dec 71:55
Nonlinear Seismic Response Evaluation - Charaima Building, Stephen A. Mahin and Vitelmo V. Bertero, ST6:June 74:1225:10614
Soil Conditions and Building Damage in 1967 Caracas Earthquake, H. Bolton Seed, Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108
Tidal Hydraulics in the Cano Macareo, Shih-Ang Zagustin, Frank D. Masch and Robert J. Brandes, CE13:72:III-2429

Ventilation
Computers: Key to Integrated Building Design, Kenneth F. Reinschmidt, CE:Mar 72:74
Fire Safety in High Rise Buildings, David C. Grupp, BP73:Dec 73:454
Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, Sital Darayanani, TB:73:Ia-2-319
Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB:73:Ib-8-523

Vertical Alinement
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Optimum Curvature Principle in Highway Routing, Bernard E. Howard, Z. Bramnick and Jocelyn F.B. Shaw, HW1:June 68:61:5987

Vertical Drains
Characteristics of an Air-Water Mixture in a Vertical Shaft, C. Samuel Martin, HYB:Aug 73:323

Vertical Indicators
Control Surveys for Major Bridges, Normand L. Moore and Richard G. Begell, SU1:May 71:83:8098

Vertical Loads
Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71:1675:8577
Stresses in Walls Due to Vertical Loads, Gunnar Karrholm and Hans Petersson, TB:73:III-21-302

Vertical Takeoff Aircraft
The Role of VTOL Aircraft in Urban Mass Transportation, F. N. Piasecki, NA:Mar 71:85
STOL Passenger Demand in Underdeveloped Areas, Jason C. Yu, TE3:Aug 71:475:8298

Vessels
Structural Behavior of Prestressed Concrete Reactor Vessels, Stanley L. Paul, ST7:July 71:1879:8249
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527

Viability
Viability of Long-Storaged Airborne Bacterial Aerosols, Calvin P.C. Poon, SA6:Dec 68:1137:6299

Viaducts

Double-Decking an Expressway, A. A. Trinidad, Jr., CE:Dec 69:59

Kazerne Viaduct Collapse, Konstant E. Bruinette, Alan J. Ockleston and Pieter C. Pretorius, ST2:Feb 74:335:10361

Steel Box Girders Highlight Design of I-480 in Omaha, G. C. Strobel, CE:Dec 69:66

Viaducts—A Case Study, Rowland Richards, Jr. and David G. Elms, EI4:Oct 74:293:10845

Vibration

Aeroelastic Galloping of Prismatic Bodies, Milos Novak, EM1:Feb 69:115:6394

Aeroelastic Instability of Prisms in Turbulent Flow, Milos Novak and Alan G. Davenport, EM1:Feb 70:17:7076

Aeroelastic Stability of Unstiffened Suspension Bridges, Daniel Dicker, EM6:Dec 71:1677:8615

Along-Wind Response of Large Bluff Buildings, Julius Solnes and Ragnar Sigbjornsson, ST3:Mar 73:381:9585

Ambient Vibration of Two Suspension Bridges, V. R. Mc Lamore, Gary C. Hart and Ian R. Stubbs, ST10:Oct 71:2567:8454

Analysis of Dynamic Response of Highway Bridgeu, Anestis S. Veletsos and Tseng Huang, EM5:Oct 70:593:7591

Analysis of Vibration of Hollow-Cone Valves, Chung-su Wang, EM6:Dec 73:1147:10215

An Approach to Time-Varying Spectral Analysis, Shih-Chi Liu, EM1:Feb 72:243:8733

Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169

Approximate Fundamental Frequencies for Chimneys, Kuang-Han Chu and Junesun Park, TN: PO2:Nov 73:441:10115

Approximate Modal Analysis Of Multistory One-Bay Frames, Alan A. Chapman and Gary C. Hart, TN: ST9:Sept 72:2137:9162

Asymptotic Stability Analysis of Viscoelastic Systems, Rong-Chung Shieh, EM2:Apr 71:193:8035

Basie Response Fuctions for Elastic Foundations, Anestis S. Veletsos and Branislav Verbic, EM2:Apr 74:189:10483

Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6: Dec 72:1353:9441

Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015

Buckling and Vibrations of Polygonal and Rhombic Plates, Sanford B. Roberts, EM2:Apr 71:305:8030

Buckling Frequencies of Long Vertical Pipes, Tseng Huang and D. W. Dareing, EM1:Feb 69:167:6400

Buckling of Columns with Random Initial Displacements, Michael C. Bernard and John L. Bogdanoff, EM3:June 71:755:8194

Calculated and Observed Vibration Amplitudes, Peter J. Moore, SM1:Jan 71:141:7789

Comparison of Footing Vibration Tests with Theory, Frank E. Richart, Jr. and Robert V. Whitman, SM6:Nov 67:143:5568

Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105:9281

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3: June 72:595:8968

Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421

Cyclic Stress-Strain Characteristics of Clay, Gerald R. Thiers and H. Bolton Seed, SM2:Mar 68:555:5871

Data Reduction from Nonlinear Response Curves, Milos Novak, EM4:Aug 71:1187:8300

Densification and Shear of Sand During Vibration, T. Leslie Youd, SM3:May 70:863:7272

Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407

Design Methods Based on Stiffness, Theme Report, Otto Steinhardt, TB:73:II-17-611

Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238

Driving Behavior of Long Steel Piles, Peter Y. Lee, PES:72:I-1259

Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824

Dynamic Analysis of Plane Coupled Shear Walls, Wai K. Tso and Ho-Bong Chan, EM1:Feb 71:33:7899

Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679:8993

Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595

Dynamic Properties of Tall Shear-Wall Buildings, George T. Taoka, Augustine S. Furumoto and Arthur N.L. Chiu, ST2:Feb 74:305:10336

Dynamic Response of Cable Networks, Nicholas F. Morris, ST10:Oct 74:2091:10895

Dynamic Response of Frames with Nonrigid Connections, Steve R. Lionberger and William Weaver, Jr., EM1:Feb 69:95:6393

Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988

Dynamics of Tier Buildings, William Weaver, Jr., Mark F. Nelson and Thomas A. Manning, EM6: Dec 68:1455:6293

Dynamic Stability of Circular Cylindrical Sandwich Panels, Conor D. Johnson and Nelson R. Bauld, Jr., EM6:Dec 71:1643:8598

Dynamic Stability of Tube Conveying Fluid, Shoei-sheng Chen, EM5:Oct 71:1469:8420

Dynamic Structure-Soil Wave Model for Deep Water, Billy L. Edge and Paul G. Mayer, WW1:Feb 71:167:7889

Earthquake Behavior of Reservoir-Dam Systems, Anil K. Chopra, EM6:Dec 68:1475:6297

Earthquake Interaction by Fast Fourier Transform, Shih-Chi Liu and Lawrence W. Fagel, EM4:Aug 71:1223:8324

Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149

Effect of Turbulence on Galloping Instability, Milos Novak and Hiroshi Tanaka, EM1:Feb 74:27:10338

Effects of Parameter Variations on Floor Response Spectra, L. K. Liu, C. L. Child and B. Nowotny, SDNPF:Dec 73:435

Eigenvalue Analysis of Structures by Folding Force, Itio Hirai and Torazo Yoshimura, EM6:Dec 70:1081:7728

Elastic Design for Earthquake Motions, State-of-Art Report 5, R. Gordon Dean, TB:73:II-14-215

Empirical Frequency Analysis of Bridge Deck Slabs, Simon F. Ng and Garnesh G. Kulkarni, TN: ST4: Apr 74:842:10456

Errors in Step Wise Solutions to Bridge Vibrations, David R. Schelling, ST10:Oct 70:2045:7600

Evaluation of Effects of Ground Shaking on Concrete Gravity Dams, Anil K. Chopra, IMROD:Sept 73:771

Fatigue of Cover Plated Beams Under Varying Loads, Francis A. Murad and Conrad P. Heins, Jr., ST4:Apr 72:915:8855

First Passage of Nonstationary Random Processes, Ross B. Corotis, Erik H. Vanmarcke and C. Allin Cornell, EM2:Apr 72:401:8816

Flexural Vibrations of Laminated Plate, Jan D. Achenbach and Tony R. Zerbe, EM3:June 71:619:8181

Flexural Vibrations of Rectangular and Other Polygonal Plates, Yau-Kai Cheung and M. S. Cheung, EM2:Apr 71:391:8038

Flow-Induced Vibration of Vertical-Lift Gate, J. David Hardwick, HY5:May 74:631:10546

Flow-Induced Vibrations of Trashrack Bars, Joseph W. Fortey and Robert F. Tiry, CE:May 72:44

Forced Vibration of Class of Nonlinear Dissipative Beams, Sami F. Masri, EM4:Aug 73:669:9959

Frame Vibrations by Consistent Mass Matrix, Fernando Venancio-Filho and Fernando Iguti, TN: ST9:Sept 73:1965:9968

Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806

Free Transverse Vibration of Flat Slabs, Paul P. Lynn and Nahit Kumbasar, EM1:Feb 69:255:6425

Free Vibration Characteristics of Shell Roofs, Anand S. Arya and Shashi K. Thakkar, EM1:Feb 71:109:7929

Free Vibration of Arches Flexible in Shear, Walter J. Austin and Anestis S. Veletsos, EM4:Aug 73:735:9913

Free Vibration Of Horizontally Curved Beams, Sidney Shore and Swapan Chaudhuri, TN: ST3:Mar 72:793:8755

Free Vibration of Hyperbolic Cooling Towers, Mahmoud G. Hashish and Salman H. Abu-Sitta, EM2:Apr 71:253:8037

Free Vibration of Two-Dimensional Frameworks, Karl-Robert Leimbach and Donald McDonald, ST2:Feb 70:267:7082

Free Vibrations of Hyperboloidal Shells of Revolution, Robert L. Carter, Arthur R. Robinson and William C. Schnobrich, EM5:Oct 69:1033:6808

Fundamental Frequencies of Axially Moving Beams, Chien-Yung Wei and John Peddieson, Jr., TN: EM4:Aug 71:1343:8273

Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231

Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692

General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67

Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29

Gust Response Factors, Joseph Vellozzi and Edward Cohen, ST6:June 68:1295:5980

Holography—A New Tool for Soil Dynamics, Richard D. Woods, Norman E. Barnett and Rolf Sagesser, GT11:Nov 74:1231:10949

Human Perception of Transient Vibrations, John F. Wiss and Richard A. Parmelee, ST4:Apr 74:773:10495

Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811

Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868

Influence of Soil Condition on Ground Motion During Earthquakes, H. Bolton Seed and Izzat M. Idriss, SM1:Jan 69:99:6347

In-Situ Investigation Using SH-Waves, Marcis Kurzeme, SM2:Feb 71:341:7918

Investigation of Dynamic Taping, Bruce W. Golley and John Sneddon, SU2:Nov 74:115:10938

Lateral and Rocking Vibration of Footings, Anestis S. Veletsos and Yau T. Wei, SM9:Sept 71:1227:8388

Lateral Vibrations of Plane Curved Bars, Muppidi N. Reddy, ST10:Oct 68:2197:6148

Lift or Across-Wind Response to Tapered Stacks, Barry J. Vickery and Arthur W. Clark, ST1:Jan 72:1:8634

Lift-Oscillator Model of Vortex-Induced Vibration, Ronald T. Hartlen and Iain G. Currie, EM5:Oct 70:577:7606

Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72:519:8961

List of Limit States, State-of-Art Report 2, J. Brakel, TB:73:III-26-863

Maximum Dynamic Response and Proof Testing, Jann-Nan Yang and Ewald Heer, TN: EM4:Aug 71:1307:8273

Membrane Analogy for Anisotropic Cable Networks, Bhupinder Pal Singh and Bhushan Lal Dhoopar, ST5:May 74:1053:10544

Modal Damping in Dynamic Analysis of Structures, Kao Ding Chiu and Hung Jen Kuo, SDNPF:Dec 73:499

Natural Frequencies of Circular Arches, Joseph A. Wolf, Jr., ST9:Sept 71:2337:8393

A New Approach to Soil-Structure Interaction Problems, Achyut V. Setlur, Jagannath K. Khanna and M. Valathur, SDNPF:Dec 73:139

Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382

Noncircular Cylinder Vibration by Multilocal Method, Ahmed K. Noor, EM2:Apr 73:389:9677

Nonconservative Stability by Finite Element, C. D. Mote, Jr., EM3:June 71:645:8204

Nonlinear Dynamic Analysis of Frames with Filler Panels, Garrison Kost, William Weaver, Jr. and Russell B. Barber, ST4:Apr 74:743:10481

Nonlinear Parameters of Vibrating Foundations, O.M. Christof Ehrler, SM6:Nov 68:1199:6208

Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Nonstationary Response of Structural Systems, Robert E. Holman and Gary C. Hart, EM2:Apr 74:415:10502

Nonsymmetric Modes of Complete Spherical Shells, John F. Gormley and William C. L. Hu, EM3:June 69:545:6606

Non-Synchronous Ground Motion, Horea Sandi, TB:73:Ib-6-325

Numerical Fourier Transform in Random Vibration, Jann-Nan Yang and Masanobu Shinozuka, EM3:June 69:731:6629

Numerical Integration of Forced-Vibration Equations, Adam Cakiroglu and Gunay Ozmen, EM3:June 68:711:5968

Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213

On the Accuracy of Timoshenko's Beam Theory, G. Richard Cowper, EM6:Dec 68:1447:6285

Optimal Random Vibration Absorbers, Raymond G. Jacquot and David L. Hoppe, TN: EM3:June 73:612:9765

Oscillatory Behavior Of Submerged Structures, Robert Y. S. Lai and Lyle F. Mockros, CEO-II:70:945

Parametric Vibration Response of Columns, Martin L. Moody, EM3:June 69:665:6619

Periodic Excitation of Multiple-Unit Impact Dampers, Sami F. Masri, EM6:Dec 70:1195:7747

Prediction of Footing Vibrations, Milos Novak, SM3:May 70:837:7268

Probabilistic Design for Random Fatigue Loads, Paul H. Wirsching and Edward B. Haugen, EM6:Dec 73:1165:10223

Probabilistic Response Analyses to Earthquakes, R. Narayana Iyengar and Kashi T. Sundara Raja Iyengar, EM3:June 70:207:7321

Properties of Spectral Moments with Applications to Random, Erik H. Vanmarcke, EM2:Apr 72:425:8822

Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165

Random Behavior of Columns, Paul H. Wirsching and James T. P. Yao, EM3:June 71:605:8183

Random Processes With Evolutionary Power, Masanobu Shinozuka, TN: EM4:Aug 70:543:7444

Random Vibration of Yielding Oscillator, Loren D. Lutes and Hirokazu Takemiya, EM2:Apr 74:343:10482

Random Walk Model for First-Passage Probability, Richard H. Toland and Cheng Y. Yang, EM3:June 71:791:8200

Reinforced Concrete Response to Simulated Earthquakes, Tsuruzo Takeda, Mete A. Sozen and N. Norby Nielsen, ST2:Dec 70:2557:7759

Response Computation Using Truncated Taylor Series, Joseph E. Grant, EM2:Apr 71:295:8019

Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092

Response of Ground-Excited Elastoplastic Systems, Anestis S. Veletsos and William P. Vann, ST4:Apr 71:1257:8075

Response of Highway Bridges to Renewal Traffic Loads, Chi C. Tung, EM1:Feb 69:41:6383

Response of Nonlinear Beam to Random Excitation, Henry R. Busby, Jr. and Victor I. Weingarten, EM1:Feb 73:55:9530

Response of Structures to Time-Varying Wind Loads, Arthur N.L. Chiu, ST2:Feb 70:381:7104

Response of Torsionally Excited Foundations, Anestis S. Veletsos and V. V. Damodaran Nair, TN: GT4:Apr 74:476:10454

Response of Triangular Prisms in Turbulent Wind, Peter W. Chen, Alan G. Davenport, Nicholas Isyumov and Leslie E. Robertson, ST11:Nov 71: 2679:8526

Rigid Pavement Stresses Under Aircraft Loading, Michel A. Sargious, Grant A. Ross and Gerald A. LeMoal, TE4:Nov 71:579:8492

Screening of Surface Waves in Soils, Richard D. Woods, PISST:71:407

Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305: 10145

Seismic Design of Soil-Structure Systems, Richard A. Parmelee and John H. Wronkiewicz, ST10:Oct 71: 2503:8437

Seismic Motion of Buildings with Buried Foundations, Stephen A. Thau, Andrej Umek and Rouben Rostamian, EM5:Oct 74:919:10870

Seismic Response of Single-Story Interaction Systems, David S. Perelman, Richard A. Parmelee and Seng-Lip Lee, ST11:Nov 68:2597:6235

Seismic Response of Structure-Foundation Systems, Richard A. Parmelee, David S. Perelman, Seng-Lip Lee and Leon M. Keer, EM6:Dec 68:1295:6264

Self-Controlled Vibration of a Cylinder in a Fluid Stream, Giampaolo DiSilvio, EM2:Apr 69:347:6498

Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72: 381:8844

Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977

Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006

Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716

A Simplified Approach to Compute Natural Frequencies of Vertical Tanks and Heat Exchangers with Skirt Supports, Chi-Wen Lin, SDNPF:Dec 73: 35

Sliding-Rocking Vibration Of Body On Elastic Medium, Robert T. Ratay, SM1:Jan 71:177:7849

Small Vibrations of Uniformly Compressed Isotropic Elastic Solids, Paul Seide, TN: EM4:Aug 71:1337: 8273

Small Vibrations of Uniformly Compressed Isotropic Elastic Solids, Paul Seide, TN: EM4:Aug 71:1337: 8273

Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676

Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817

Statistical Linearization for Nonlinear Structures, Wilfred D. Iwan and I-Min Yang, EM6:Dec 71: 1609:8576

Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72: 1205:9289

Steady-State Response of Yielding Shear Structure, Wilfred D. Iwan, EM6:Dec 70:1209:7774

Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705

Structural Response By Discrete-State Computation, Raymond G. Jacquot and Christos T. Constantinides, TN: EM2:Apr 72:497:8815

Structure-ground Interaction in Earthquakes, Johann H. Rainer, EM5:Oct 71:1431:8422

Studies Of Seismic Response Of Clay Banku, William D. Kovacs, H. Bolton Seed and Izzat M. Idriss, SM2:Feb 71:441:7878

A Study of Damage to a Residential Structure from Blast Vibrations, John F. Wiss and Harry R. Nicholls, DRS:74, 80pp.

Subsidence of Sand Due to Surface Vibration, William F. Brumund and Gerald A. Leonards, SM1:Jan 72:27:8648

Survey of Research on Structural Connections, Geoffrey L. Kulak, TN: ST12:Dec 74:2537:10982

Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Tall Floating Towers, Lawrence Wayne Martin and Phillip J. McCabe, CEO-II:70:879

Three-Dimensional Vibrations of Orthotropic Cylinders, Fang-Hui Chou and Jan D. Achenbach, EM4:Aug 72:813:9102

Torsional-Flexural Vibration of Multi-Story Structures, Jacob Gluck, TB:73:Ib-6-298

Torsional Vibration of Viscoelastic Foundations, Anestis S. Veletsos and V. V. Damodaran Nair, GT3:Mar 74:225:10415

Torsional Vibrations of Conical Frustum, Surendra R. Shah, EM5:Oct 71:1521:8452

Tower Response to Actual and Simulated Wind Forces, Arthur N.L. Chiu and George T. Taoka, ST9:Sept 73:1911:10012

Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73: 715:9918

Transverse Beam Vibration Nonlinear Constraint, Mohammed Ali Dokainish and Rajnish Kumar, EM6:Dec 72:1381:9431

Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau-Kai Cheung, EM5:Oct 72: 1225:9233

Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72: 1187:9061

Two-Component Force-Balance, Avittathur Achyuthan and Viswanatha Sethuraman, TN: HY2: Feb 74:339:10340

U.S. Steel Headquarters Building, CE:Apr 70:58

Vertical Vibration of Embedded Footings, Milos Novak and Youpele O. Beredugo, SM12:Dec 72: 1291:9412

Vibrational Characteristics of Linear Space Frames, William D. Whetstone and Charles E. Jones, ST10: Oct 69:2077:6821

Vibration Analysis of Pump Discharge Lines, Jesse M. Diaz and Ravinder K. Jain, HY11:Nov 70:2279: 7678

Vibration And Placement Of Concrete, Raymond A. Hanson, RCCD:70:313

Vibration Modulus of Normally Consolidated Clay, Bobby O. Hardin and William L. Black, SM2:Mar 68:353:5833

Vibration of Chimney Supported on Elevated Concrete Slab, Elias G. Abu-Saba, ST2:Feb 71:619: 7936

Vibration of Circular Plates with Edge-Beams, Richard J. Stuart and John F. Carney, III, TN: EM4:Aug 73:907:9898

Vibration of Conical Shells Subjected to Torsion, Victor I. Weingarten, EM1:Feb 68:47:5783

Vibration of Flanged Beams and Panels, Satya P. Keshava, TN: ST7:July 73:1681:9828

Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, Kenneth H. Lenzen, TB:73:II-17-667

Vibration of Heavy Industrial Slabs, James H. Woodward and Claudie K. McDonald, TN: ST8: Aug 73:1797:9911

Vibration of Noncircular Foundations, Yong S. Chae, SM6:Nov 69:1411:6918

Vibration Of Pipe Carrying Flowing Fluid, P. Srinivasan and V. Lakshminarayanan, TE2:May 70: 165:7265

Vibration of Structures Having Changing Boundaries, Manuel A. G. Silva and Leon M. Keer, EM3:June 71:1007:8220

Vibration of Support Excited Tubes in Coaxial Flow, Stanley A. Knudson and Gerald S. Smith, EM6: Dec 70:1039:7775

Vibrations During Construction Operations, John F. Wiss, CO3:Sept 74:239:10798

Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092

Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230

Vibrations of Soils and Foundations, by F.E. Rickart, Jr., J.R. Hall, Jr., and R.D. Woods (Book Review), John A. Blume, CE:Nov 70:23

Vibrations of Stacks Supported on Steel Structures, Anthony Morrone, ST12:Dec 69:2831:6965

Vibrations of Timoshenko Beams and Frameworks, Franklin Y. Cheng, ST3:Mar 70:551:7155

Vibrations of Triangular Viscoelastic Plates, John S. Hewitt and Jagannath Mazumdar, EM6:Dec 74:1143:11004

Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219

Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923

Wind Deflection of Tall Concrete Frame Buildings, John F. Wiss and Otto E. Curth, ST7:July 70:1461:7413

Wind Induced Vibration in Light Poles, Hayes E. Ross, Jr. and Thomas Charles Edwards, ST6:June 70:1221:7383

Vibration Damping

Aeroelastic Galloping of Prismatic Bodies, Milos Novak, EM1:Feb 69:115:6394

Energy Conservation, Noise, and Vibration Control in Construction of Floating Offshore Power Plants, James A. O'Kon, TN: CO2:June 74:195:10570

Vibration of Support Excited Tubes in Coaxial Flow, Stanley A. Knudson and Gerald S. Smith, EM6: Dec 70:1039:7775

Vibration Meters

Shock Spectra From Subsurface Nuclear Explosions, Frank W. Galbraith and Robert N. Schreiner, EM5: Oct 68:1015:6140

Vibration Tests

Road Responses to Vibration Tests, Michael E. Szendrei and Charles R. Freeme, SM6:Nov 70:2099:7709

Vibrators (Mechanical)

Vibrator for Soil Testing, Gerd F. Weissmann, TN: SM3:Mar 71:601:7962

Vibratory Compacting

Aswan High Dam: Rockfill Built Under Water, Taher Abu-Wafa and Aziz H. Labib, CE:Aug 71:64

Sand Compaction with Vibratory Rollers, David J. D'Appolonia, Robert V. Whitman and Elio E. D'Appolonia, SM1:Jan 69:263:6366

Vibratory Compaction

Sand Densification by Heavy Vibratory Compactor, Douglas C. Moorhouse and Gerald L. Baker, SM4: July 69:985:6656

Sand Densification by Heavy Vibratory Compactor, Douglas C. Moorhouse and Gerald L. Baker, PISST:71:379

Subsidence of Sand Due to Surface Vibration, William F. Brumund and Gerald A. Leonards, SM1:Jan 72:27:8648

Vibratory Densification of Damp Clayey Sands, Raymond J. Krizek and Jose I. Fernandez, SM8: Aug 71:1069:8320

Volume Changes in Sands During Cyclic Loading, Marshall L. Silver and H. Bolton Seed, SM9:Sept 71:1171:8354

Vibratory Pile Driving

Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821

New Method for Deep Sand Vibratory Compaction, Robert D. Anderson, CO1:Mar 74:79:10429

Vibroflotation

Effects of Vibroflotation on Clayey Sands, Desmond L. Webb and R. Ian Hall, SM6:Nov 69:1365:6882

Effects of Vibroflotation on Clayey Sands, Desmond L. Webb and R. Ian Hall, PISST:71:393

In-Place Treatment of Foundation Soils, James K. Mitchell, PISST:71:93

Sand Compaction by Vibroflotation at Cape May, New Jersey, Robert J. Westberg and Herbert O. Ireland, PES:72:I-1037

Sand Densification by Piles and Vibroflotation, Carl E. Basore and Joseph D. Boitano, SM6:Nov 69:1303:6892

Sand Densification by Piles and Vibroflotation, Carl E. Basore and Joseph D. Boitano, PISST:71:203

Session IV: Other Improvement Techniques (Additives, Grouting, Thermal, Electro, Vibroflotation, Blasting, Compaction, Piles), Roy E. Olson, PISST:71:91

Video Signals

Subsurface Video Pulse Radars, David L. Moffatt, EFSE:Aug 74:195

Vidicons

Coastal Applications of the ERTS -- A Satellite, Orville T. Magoon, Douglas M. Pirie and John W. Jarman, CE13:72:III-2065

Vierendeel Trusses

Analytical Model for Lateral Load Effect on Buildings, Bernardo J. Deschapelles, ST6:June 70:1025:7328

Field Solutions for Shear Grids, Donald L. Dean, ST12:Dec 71:2845:8594

Virginia

Design of the South Island for the Second Hampton Roads Crossing, David Rafaeli, PES:72:I-361

First & Merchants National Bank, Welton Becket and Associates, TB:73:C-P-322

A Mathematical Model for Salinity Intrusion, A. Y. Kuo and Ching S. Fang, CE13:72:III-2265

Oxygen Sewage-Treatment Process Handles Shock Loads, Cuts Odors, R. J. Gozikowski and R. H. Oeler, CE:Aug 74:49

Public Participation in the I-66 Corridor Transportation Alternates Study, John P. Fowler, II, UT73:May 73:11

Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832

Some Sediment Aspects of Tropical Storm Agnes, Harold P. Guy and Terry L. Clayton, TN: HY9: Sept 73:1653:10024

Virology

Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, NSCD:71:365

Natural Virus Inactivation Processes in Sea Water, Hillel I. Shuval, Andrew Thompson, Badri Fattal and Samuel Cymbalista, NSCD:71:429

Salt and Virus Inactivation by Chlorine and High pH, Otis J. Sproul, Robert T. Thorup, David F. Wentworth and James S. Atwell, NSCD:71:385

Viruses

Destruction of Bacteria and Viruses in Seawater, Ralph Mitchell, SA4:Aug 71:425:8299

Ecology of Blue-Green Algal Viruses, Robert E. Cannon, Miriam S. Shane and Eugene DeMichele, EE6:Dec 74:1205:11012

Engineering Evaluation of Virus Hazard in Water, by the Committee on Environmental Quality Management of the Sanitary Engineering Division, Bernard B. Berger, Chmn., SA1:Feb 70:111:7112

Halogen Action on Bacteria, Viruses, and Protozoa, Cornelius W. Kruse, Yu-Chih Hsu, Annabel C. Griffiths and Richard Stringer, NSCD:71:113

Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, NSCD:71:365

Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5: Oct 71:661:8419
An Integrated Approach to the Problem of Viruses in Water, Gerald Berg, NSCD:71:339
Natural Virus Inactivation Processes in Sea Water, Hillel I. Shuval, Andrew Thompson, Badri Fattal and Samuel Cymbalista, NSCD:71:429
Persistence of Virus and Bacteria in Seawater, William D. Won and Harold Ross, EE3:June 73: 205:9781
Salmonellae in Fresh Water Pollution, Edwin E. Geldreich and Dale J. Van Donsel, NSCD:71:495
Salt and Virus Inactivation by Chlorine and High pH, Otis J. Sproul, Robert T. Thorup, David F. Wentworth and James S. Atwell, NSCD:71:385
Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, NSCD:71:223
Viral Pollution and Depuration of Shellfish, Oscar C. Liu, NSCD:71:397
Virus Removal by Diatomaceous Earth Filtration, Malay Chaudhuri, Parviz Amirhor and Richard S. Engelbrecht, EE4:Aug 74:937:10732

Viscoelasticity
Asymptotic Stability Analysis of Viscoelastic Systems, Rong-Chung Shieh, EM2:Apr 71:193:8035
Deformation and Stability of Viscoelastic Soil Media, Cetin Soydemir and Werner E. Schmid, SM6:Nov 70:2081:7708
Finite Elements and Dynamic Viscoelasticity, David W. Malone and Jerome J. Connor, EM4:Aug 71: 1145:8293
Flexure Of Thick Rectangular Viscoelastic Plates, S. Srinivas and A. K. Rao, TN: EM3:June 72:763: 8931
Large Deflections of Viscoelastic Rings, Michael Schoenberg, EM1:Feb 69:223:6410
Response of Viscoelastically Restrained Beam, Frank A. Moughton, ST7:July 73:1607:9869
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72: 1205:9289
Thermoviscoelasticity of Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM3:June 74:575: 10621
Vibrations of Triangular Viscoelastic Plates, John S. Hewitt and Jagannath Mazumdar, EM6:Dec 74: 1143:11004
Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12: Dec 72:1375:9454

Viscoelastic Theory
New Rheological Model for Soil Behavior, Fujiya Komamura and Rodney J. Huang, GT7:July 74:807: 10675

Viscosity
Containing Oil Slicks in Flows of Finite Depth, David L. Wilkinson, CE13:72:III-2567
Cross-Velocity Behavior in Parallel Channel Flow, James F. Wilson, EM4:Aug 69:921:6736
Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218
Distorted Modeling of Density Currents, James J. Sharp, CE13:72:III-2329
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711
New Rheological Model for Soil Behavior, Fujiya Komamura and Rodney J. Huang, GT7:July 74:807: 10675
Resistance to Reversing Flows over Movable Beds, Mehmetcik Bayazit, HY4:July 69:1109:6649
The Rheology of Fresh Concrete, Alistair G.B. Ritchie, CO1:Jan 68:55:5752
Similitude in Free-Surface Vortex Formations, Larry L. Daggett and Garbis H. Keulegan, HY11:Nov 74: 1565:10941
Slow Non-Newtonian Flow in Zone of Separation, Arthur A. Giaquinta and Tin-Kan Hung, EM6:Dec 68:1521:6319
Spherical Structural Systems In Fluid Media, Bijoy K. Bhattacharys and John F. Carney, III, CEO-II: 70:555
Streamlines in Two-Dimensional Laminar Branch Flows, David Charles Blest, HY1:Jan 72:171:8656

Viscous Flow
Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73: 1401:10018
Effects of Viscous Sublayer on Dispersion, Chin-lien Yen, SA6:Dec 69:1105:6971
Steady Flow Past Flat Plate in Channel, Thomas L. Shaw, HY6:Nov 69:2013:6903
The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193
Wall Effect on a Sphere in a Rotating Viscous Fluid, Philip K. Davis, HY10:Oct 70:2019:7625
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Visibility
Stark County, Ohio's Low Cost Road-Safety Program, CE:Nov 74:64

Visual Perception
Accessibility and Environmental Quality, V. Setty Pendakur and Gerald R. Brown, UP1:Apr 69:43: 6518
The Elderly Pedestrian: A Special Problem, Susan B. Haberkorn, BP73:Dec 73:414

Vocational Guidance
Are More Women Needed in Civil Engineering, Norman J. Fulco and Eugene E. Dallaire, CE:May 73:54
Career Guidance, Ross M. Lanius, Jr., EI2:Apr 74: 111:10465
Engineering Societies' Program for Training Minority Manpower, Sol E. Cooper, PP1:July 69:61:6694
Minorities In Engineering - How Does Your Company Stack Up?, Montrust Q. Burrell, EI1:Jan 74:41:10271

Void Ratio
New Concepts in Consolidation and Settlement Analysis, John Lowe, III, GT6:June 74:571:10623

Voids
Pore Size Distribution Studies, Asuri Sridharan, Adolph G. Altschaeffl and Sidney Diamond, SM5: May 71:771:8151

Volcanoes
Use of Volcanoes for Determination of Direction of Littoral Drift, Per Moller Bruun and Gisli Viggosson, 12CEC:71:935

Voltage Regulation
Automatic Voltage Drop Compensation for Tall Buildings, Frederick S. Rohatyn, TB:73:Ia-2-382

Volume Change
Earthquake Induced Settlements in Saturated Sands, Kenneth L. Lee and Aurelio Albaisa, GT4:Apr 74: 387:10496

Vortices
Computer Model of Vortex Shedding From a Cylinder, John R. Chaplin, HY1:Jan 73:155:9491
Eddy Formation Behind Circular Cylinders, Alan D. K. Laird, HY6:June 71:763:8170
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897: 10119
Flow Visualization in Turbulent Boundary Layers, Joseph A. Clark and Eric Markland, HY10:Oct 71: 1653:8459

Free-Vortex Theory Applied To Free Overfalls, Kamil H.M. Ali and Ann Sykes, TN: HY5:May 72: 973:8864
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
Mechanism for Streamflow Meandering, Michael C. Quick, HY6:June 74:741:10587
Scale Effects in Swirling Flow, John A. McCorquodale, HY1:Jan 68:285:5767
Similitude in Free-Surface Vortex Formations, Larry L. Daggett and Garbis H. Keulegan, HY11:Nov 74: 1565:10941
Turbulent Flow Near Smooth Wall, Robert Gerard, EM6:Dec 74:1129:10999
Vortex Suppression in Stilling Pond Overflow, Y. R. Reddy and John Pickford, HY11:Nov 74:1685: 10969

Wages
Open-Shop Movement Slithers Into Construction Contracting, Robert N. Olsen, CE:Nov 71:40
Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083

Wakes
Computer Model of Vortex Shedding From a Cylinder, John R. Chaplin, HY1:Jan 73:155:9491
Waves Generated by Large Ships and Small Boats, Madan M. Das and Joe W. Johnson, 12CEC:71: 2281

Wall Friction
Effect of Blockage on Steady Force Coefficients, Amruthur S. Ramamurthy and C. P. Ng, EM4:Aug 73:755:9905
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897: 10119
A Model for Turbulent Transfer in the Wall Region, Lindon C. Thomas and Liang-Tseng Fan, TN: EM1:Feb 71:169:7858
Numerical Design-Analysis for Piles in Sands, Chandrakant S. Desai, GT6:June 74:613:10617
Triangular Framework Model for Plate Bending, Eero-Matti Salonen, TN: EM1:Feb 71:149:7858
Unified Formulation of Wall Turbulence, Gour-Tsyh Yeh, TN: HY12:Dec 72:2263:9397

Walls
Analysis of Pierced Shear Walls, Alexander Coull and R. D. Puri, ST1:Jan 68:71:5710
Analysis of Shear Walls with Openings, Chiyyarath V. Girijavallabhan, ST10:Oct 69:2093:6824
Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233: 8643
Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234
Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550
Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7: July 72:1361:9010
Breakwater and Quay Wall by Horizontal Plates, Takeshi Ijima, Shigeo Ozaki, Yasuhiko Eguchi and Akira Kobayashi, 12CEC:71:1537
Buckling of Light-Gage Corrugated Metal Shear Diaphragms, John T. Easley and David E. McFarland, ST7:July 69:1497:6683
Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515
Column-Supported Shear Walls With Openings, L. Cerny, TB:73:III-21-282
Computation of Twin Walls Connected by Clamped Beams, Axel Efsen and L. Pilegaard Hansen, TB: 73:III-21-265
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
Construction Self-Weight Stresses Of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, EC5:70:645
Construction Self-Weight Stresses of Precast Shear Walls, Donald H. Orme, Reginald G. Smith and William R. Tinch, ST1:Jan 71:393:7840
The Continuum Analysis of Shear-Wall Structures, Riko Rosman, TB:73:III-21-271
Coupled Walls Subjected To Discontinuous Distributed Loads, Ian J. Jordaan and Robert E. Loov, TN: ST7:July 72:1675:9069
Coupling Beams of Reinforced Concrete Shear Walls, Thomas Paulay, ST3:Mar 71:843:7984
Design and Observation of a Tied-Back Wall, Gerald W. Clough, Paul R. Weber and Joseph Lamont, Jr., PES:72:I-1367
Ductility of Masonry Walls, Rowland J. Mainstone, TB:73:III-27-1101
Dynamic Analysis of Plane Coupled Shear Walls, Wai K. Tso and Ho-Bong Chan, EM1:Feb 71:33: 7899
Dynamic Interaction of a Shear Wall with the Soil, Juan Enrique Luco, EM2:Apr 69:333:6497
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920
Engineering Guidelines for Highway Noise Shield Design, J. Kenneth Manhart, TE4:Nov 74:909: 10926
Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79
Error Analysis For Rectangular Finite Elements, Chiyyarath V. Girijavallabhan and Ramakrishna Narayanaswami, TN: ST1:Jan 72:413:8619
Flow-Induced Forces on Protruding Walls, Eduard Naudascher and Frederick A. Locher, HY2:Feb 74: 295:10347
Frequency Analysis Of Thin-Walled Shear Walls, Arthur C. Heidebrecht and Ravinora K. Raina, EM2:Apr 71:239:8028
General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73: 365:9604
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067
Interaction Between Frames and Precast Panel Walls, Atle Gjelsvik, ST2:Feb 74:405:10374
Lateral Support of Concrete Block Walls, Harry D. Lovering, CE:May 73:74
Masonry Building Systems, State-of-Art Report 9, Alan H. Yorkdale, TB:73:Ia-3-567
Masonry Construction Operations, Clayford T. Grimm, CO2:June 74:171:10630
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373
Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296
Model Investigations of Shear Wall Structures, Alexander Coull and Andrew W. Irwin, ST6:June 72:1223:8936
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671
New Rectangular Finite Element for Shear Wall Analysis, Iain A. MacLeod, ST3:Mar 69:399:6464
Nonlinear Dynamic Analysis of Frames with Filler Panels, Garrison Kost, William Weaver, Jr. and Russell B. Barber, ST4:Apr 74:743:10481
Optimal Multifactor Design Procedure for Sandwich Panels, Chester P. Smolenski and Edward M. Krokosky, ST4:Apr 70:823:7243

Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:1:9706

Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221

Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257

Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259

Performance of Two Slurry Wall Systems in Chicago, James A. Cunningham and Jose I. Fernandez, PES: 72:I-1425

Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181

Pierced Shear Walls of Stepwise Variable Thickness, Alexander Coull, TN: ST5:May 74:1157:10536

Plane Strain Approximations in Finite Element Analyses of Temporary Walls, Yuet Tsui and Gerald W. Clough, GT74:June 74:173

Plastic Design of Coupled Frame-Shear Wall Structures, Peter F. Adams and James G. MacGregor, ST9:Sept 70:1861:7505

Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653

Practical Design of Masonry Buildings, R. M. Gensert and William C. Bretnall, TB:73:III-27-1069

Pressures of Standing Waves on Vertical Wall, Shoshichiro Nagai, WW1:Feb 69:53:6408

Reinforced Masonry Bearing Walls Used in 13-Story Buildings, Robert F. Higgins, CE:Nov 70:40

Repair of 7-Story Bearing Wall, Russell S Fling, CO1:July 69:39:6669

Research Regarding the Interaction of Shear Walls and Frames, Constantin N. Avram, Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318

Shear Walls, State-of-Art Report 4, Masahide Tomii, TB:73:III-21-203

Sheet-Pile Analysis by Distribution Theory, Dafalla A. Turabi and Arpad Balla, SM1:Jan 68:291:5769

Shrinkage Effect of Structural Concrete Walls in Multi-Story Buildings, Iosif Gruner, Grigore Rotaru and Radu Frunza, TB:73:III-25-827

Simulated Seismic Loading of Spandrel Beams, Thomas Paulay, ST9:Sept 71:2407:8365

Stability of Frames and Shear Walls, Gert Konig, Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613

Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499

Strain in Brick Wall of Five-Story Building, J. G. Stockbridge, ST12:Dec 69:2955:6979

Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593: 8143

Stresses in Walls Due to Vertical Loads, Gunnar Karrholm and Hans Petersson, TB:73:III-21-302

Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001

Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577

Tests on Steel-Frame, Shear-Wall Structures, Sauren N.G. Majumdar and Peter F. Adams, ST4:Apr 71: 1097:8031

Three-Dimensional Analysis of Shear Wall Buildings to Lateral Load, Jayanta K. Biswas and Wai K. Tso, ST5:May 74:1019:10537

Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193

Three-Dimensional Turbulent Wall Jets, Nallamuthu Rajaratnam and Bidya Sagar Pani, HY1:Jan 74:69: 10294

Treatment of Peak Gusts on Cladding, W. Alan Dalgliesh, ST9:Sept 71:2173:8356

Unreinforced Masonry Load-Bearing Walls, Kenneth P. Buchert, CE:Dec 73:64

U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27

Vertical Wall Joints, M. Pommeret, TB:73:III-21-277

Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425

Waves Generated by Horizontal Motion of a Wall, Madan M. Das and Robert L. Wiegel, WW1:Feb 72:49:8707

Weather Effects on Mason Productivity, Clayford T. Grimm and Norman K. Wagner, CO3:Sept 74:319: 10783

Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603

Warehouses

Tilt-Up Wall Construction Speeds Warehouse Construction, CE:June 74:58

Warning Systems

Dam Collapse Wave in a River, Armando Balloffet, Eric Cole and Armando F. Balloffet, HY5:May 74: 645:10523

Warpage

Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234

Behavior of Single Horizontally Curved Girder, Conrad P. Heins, Jr. and Kenneth R. Spates, ST7: July 70:1511:7420

Finite Element Analysis of Slabs on Elastic Solids, Yang H. Huang, TE2:May 74:403:10535

Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130

Warping and Distortion at I-Section Joints, Porpan Vacharajittiphan and Nicholas S. Trahair, ST3:Mar 74:547:10390

Washington

Antilon Lake Pumped Storage Project, James V. Williamson, EPCE:Aug 74:439

Construction and Operation of Pump Irrigation Facilities Along the Columbia and Okanogan Rivers, Boyd H. Walter, OIDS:72:161

Expo '74 Rejuvenates Downtown Spokane, Virginia Fairweather, CE:June 74:48

Highway and Utility Share Corridor, John Berkowitz, CE:Nov 74:61

Irrigation Adequacy with Center Pivot Sprinklers, Douglas Anderson and Robert J. Brown, IRS:Sept 72:353

Longest Concrete-Arch Bridge in North America, Ernest C. Harris and John A. Talbott, CE:July 72: 49

Management and Regulations for the Future Basin Management Techniques, Charles V. Gibbs and Allan L. Poole, CWFE:Mar 71:65

Optimum Groundwater Level Decline in Eastern Washington, Walter R. Butcher, IRS:Sept 72:291

Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113

Seattle's Experiment in Free Transit, Donald Munro and Brian Krinbring, CE:Aug 74:86

Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511

Swimming Again in Lake Washington, Walter E. Jessup, CE:Mar 72:60

Watershed Behavior After Forest Fire in Washington, J. D. Helvey, IR73:Aug 73:403

Washington, D.C.

Benefits of Tunnel Measurements, Larry H. Heflin, EFSE:Aug 74:366

Bikeways in National Capital Parks, Thomas DeHaven, BP73:Dec 73:547

Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885

Concrete Formwork for Washington, D.C. Metro, John J. Bodziuch, CE:July 74:76

Constructing Washington D.C.'s Metro, Ellis E. Wilhoyt, Jr., CE:Nov 74:74

Design of Pedestrian Facilities for the Washington Metro, Albert J. Roohr, MTI:May 72:159
Design of Pedestrian Facilities for the Washington Metro, Melvin Siegel, BP73:Dec 73:420
Development of Shotcrete for Metro Construction in Washington, Kanwal S. Bawa, SUSS:July 73:33
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
Tieback Wall Construction - Results and Controls, Kenneth R. Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56

Waste Assimilative Capacity
Impoundment and Temperature Effect on Waste Assimilation, Peter A. Krenkel, Edward L. Thackston and Frank L. Parker, SA1:Feb 69:37:6406
Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810

Waste Dilution
Hydraulic Model Experiment On Waste Diffusion In Tokyo Bay, Tonia Eemura, Masamitsu Onitsuka, Hiroshi Fukao and Fumio Yamaguchi, CEO-II:70:247
Predicting Effects of Dead Zones on Stream Mixing, Edward L. Thackston and Karl B. Schnelle, Jr., SA2:Apr 70:319:7218

Waste Disposal
Agricultural Waste Management, J. Ronald Miner, EE2:Apr 74:363:10470
Attitudes in Sludge Treatment and Disposal, Richard I. Dick, EE5:Oct 74:1077:10844
Characterization of Mixing Aerated Lagoons, Keith L. Murphy and Alfred Warren Wilson, EE5:Oct 74:1105:10865
Characterization of Time-Varying Organic Loads, Alfred T. Wallace and Donald M. Zollman, SA3:June 71:257:8167
Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
Constructing Non-Polluting Coal Ash Disposal Sites, Anthony M. Di Gioia, Jr., Robert P. Hayden and James E. Niece, CE:Dec 74:64
Construction Solid Waste, David A. Spivey, CO4:Dec 74:501:10993
Debris Accumulation in Ancient and Modern Cities, Charles G. Gunnerson, EE3:June 73:229:9771
Deep-Well Disposal of Wastes, William R. Walker and Ronald C. Stewart, SA5:Oct 68:945:6171
Demonstration Sanitary Landfill in Kansas City, Kans., Gerald A. Neely and Nicholas S. Artz, CE:Oct 72:72
Diffusion Of Sewage Effluent From An Ocean Outfall, Robert E. Stewart, Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, CEO-II:70:1151
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Electrode Potential Control Of Ocean Outfalls, Werner N. Grune, Philip Quinn and Susan DiPrima, CEO-II:70:1187
Exotic Uses of Aquifers, Raphael G. Kazmann, IR3:Sept 71:515:8352
Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408
Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313:10241
How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5:Oct 71:661:8419
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
Land Treatment of Food Processing Wastewaters, Louis C. Gilde, IR3:Sept 73:339:10000
Management of Waste Fluids in Salaquifers, Raphael G. Kazmann, Oscar K. Kimbler and Walter R. Whitehead, IR4:Dec 74:413:10991
Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, CEO-II:70:249
Ocean Dumping: What and Where, If at All?, Eugene E. Dallaire, CE:Nov 71:58
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73:923:10200
Planning and Control of Combined Sewerage Systems, William R. Giessner, Robert T. Cockburn, Frank H. Moss, Jr. and Mark E. Noonan, EE4:Aug 74:1013:10744
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
Processing and Recovery of Municipal Solid Waste, Robert F. Testin and Neil L. Drobny, SA3:June 70:699:7345
Program for Water-Pollution Control in Maryland, Andrew Heubeck, Jr., James B. Coulter, Paul W. McKee, James J. O'Donnell and Donald W. Pritchard, SA2:Apr 68:283:5900
Property Development in Modern Communitites, Daniel B. Stauffer, CO1:Jan 68:35:5741
Public Health Service Solid Wastes Program, Richard D. Vaughan and Ralph J. Black, SA2:Apr 69:233:6500
Rapid Coastal Bottom Water Temperature Rises, Paul D. Higley and David O. Cook, EE4:Aug 74:955:10734
Regional Water Quality Standards, Ralph Porges, SA3:June 69:423:6596
Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956
Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543
Salvaging Obsolete Autos: Systems Approach to Materials Recycling, CE:Apr 71:52
Scientific and Administrative Criteria for Shallow Waste Disposal, George M. Hughes and Keros Cartwright, CE:Mar 72:70
Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280
Septic Tank Systems, Joseph A. Cotteral, Jr. and Dan P. Norris, SA4:Aug 69:715:6735
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389
Simple Method for Predicting Dispersion in Streams, Raul S. McQuivey and Thomas N. Keefer, EE4:Aug 74:997:10708
Solidification of Sludges with Portland Cement, E. Alan Cassell and Thomas W. Walker, SA1:Feb 70:15:7053
Spread of Buoyant Jets at the Free Surface, James J. Sharp, HY3:May 69:811:6538
Status of Radioactive Waste Disposal in U.S.A., Frank L. Parker, SA3:June 69:439:6597
St. Louis Powerplant Burns City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30
St. Louis Power Plant to Burn City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Jan 71:56
Subsurface Environment—Private Property or Public Domain?, William R. Walker and William E. Cox, HY11:Nov 74:1699:10958
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947
Transportation Model Applied to Landfill Design, Robert B. Conrad and E. Kenneth Hoffman, EE3:June 74:549:10575

Trends in Financial Support for Water Pollution Control, David H. Howells, SA3:June 67:1:5271
Virus Removal and Inactivation by Physical-Chemical Waste Treatment, Mark D. Sobsey, Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3:June 73:245:9778
Waste Management In The Marine Environment, Clarence M. Tarzwell, CEO-II:70:477
Wastes from the Preservation of Wood, E. Joe Middlebrooks, SA1:Feb 68:41:5785
Water Pollution on the Continental Shelf, John S. Farlow, Lester M. Klashman and Merrill S. Hohman, CEO-II:70:1233
Water Quality Management - Power Station Coal Ashes, Dennis W. Weeter, James E. Niece and Anthony M. DiGioia, Jr., EPCE:Aug 74:633
What Industry is Doing About Pollution Control, Charles Hemming, CE:Sept 71:59
What Should Civil Engineering Education Accomplish?, Elmer K. Timby, CEE:Feb 74:1-302
What's New in Deep-Well Injection?, Herman Bouwer, CE:Jan 74:58

Waste Heat

Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2: Oct 72:253:9241
Waste Heat Disposal from Power Generating Stations, F. Stewart Brown, PO3:June 70:277:7317

Wastes

Advance in Refuse Management, Eugene E. Dallaire, CE:Aug 74:82
Dsc, Call for Papers, CE:June 74:18
Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, SA5:Oct 71:647:8433
Conversion of Organic Waste to Fuel, John L. Cox, Warrack G. Willson and Edward J. Hoffman, EE3: June 74:717:10579
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Economics of Solid Waste Investment Decisions, Robert M. Clark, UP1:Mar 70:65:7151
Processing and Recovery of Municipal Solid Waste, Robert F. Testin and Neil L. Drobny, SA3:June 70: 699:7345
Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214

Waste Stabilization Ponds

Bacterial Dieoff in Ponds, Ernst M. Davis and Earnest F. Gloyna, SA1:Feb 72:59:8714
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727

Waste Treatment

Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098
Computer Design of CMAS Systems, Daniel W. Smith, SA4:Aug 70:977:7474
Control of Anaerobic Digestion Process, Aaron S. Collins and Bobby E. Gilliland, EE2:Apr 74:487: 10475
Economics from the Viewpoint of Industry, Nelson L. Nemerow, CWFE:Mar 71:279
Japan Develops Water Pollution Control Technology, Takeshi Goda and Hisashi Sumitomo, CE:Nov 71: 42
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
New Approaches to Wastewater Treatment, Robert L. Stenburg, John J. Convery and Charles L. Swanson, SA6:Dec 68:1121:6296
New Wastewater Treatment Processes: EPA Encourages Adoption, Charles L. Swanson, CE:Sept 71:49
Preliminary Design of Wastewater Treatment Systems, Robert Smith, SA1:Feb 69:117:6426
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
Removal of Lignin from Water by Precipitate Flotation, Mu-Hao Wang, Marvin L. Granstrom, Thomas E. Wilson and Lawrence K. Wang, EE3: June 74:629:10574
Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72: 1021:9430
St. Louis Cleans up the Mississippi, CE:May 72:61
Treatment of Refinery Waste by Physicochemical Processes, Ju-Chang Huang and Michael G. Hardie, SA4:Aug 71:467:8318
Variability of Waste Treatment Plant Performance, Robert V. Thomann, SA3:June 70:819:7380
Virus Removal and Inactivation by Physical-Chemical Waste Treatment, Mark D. Sobsey, Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3:June 73:245:9778
Wastewater Reuse--A Supplemental Supply, John D. Parkhurst, SA3:June 70:653:7318

Waste Water

Chemical Treatment, Walter J. Weber, Jr. and Tom H. Forrest, CWFE:Mar 71:183
The Design and Economics of Joint Wastewater Treatment Facilities, W. Wesley Eckenfelder, Jr. and Carl E. Adams, Jr., CWFE:Mar 71:291
Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813
Diversion of Wastewater from Madison Lakes, William C. Sonzogni and G. Fred Lee, EE1:Feb 74: 153:10318
Economics of Water Quality and Wastewater Control, Fred E. Case, CWFE:Mar 71:115
Effect of Agricultural Use on Water Quality for Downstream Use for Irrigation, Jerald E. Christiansen, IR73:Aug 73:753
Environmental Impact of Wastewater Discharges, E. R. Hendrickson and J. B. Koogler, SEA:70:91
f_2 Coliphage as Tracer in Wastewater Basin, Kazuyoshi Kawata and Vincent P. Olivieri, TN: EE6:Dec 74:1307:10978
General Financial Programs for Regional and Large Wastewater Systems, Edwin A. Wells and Jack H. McMinn, CWFE:Mar 71:147
Household Wastewater Characterization, Kenneth Ligman, Neil Hutzler and William C. Boyle, EE1: Feb 74:201:10372
Hydraulic Design of Self-Cleaning Sewage Tunnels, Dagfinn K. Lysne, SA1:Feb 69:17:6404
Improving Mercury (II) Removal by Activated carbon, Michael J. Humenick, Jr. and Jerald L. Schnoor, EE6:Dec 74:1249:11032
Industrial Waste Surcharges, Robert L. Coughlin, CWFE:Mar 71:323
Management of Waste Fluids in Salaquifers, Raphael G. Kazmann, Oscar K. Kimbler and Walter R. Whitehead, IR4:Dec 74:413:10991
Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, CEO-II:70:249
Muskegon Sprays Sewage Effluents on Land, Eugene I. Chaiken, Stephen Polincsik and Carl D. Wilson, CE:May 73:49
The Nature of Education in Environmental Engineering at Universities, Rolf Eliassen, CWFE: Mar 71:221
New Directions for Wastewater Collection and Disposal, Daniel A. Okun, CWFE:Mar 71:157
New Trends in Tertiary Treatment, Vinton W. Bacon and Tom H. Forrest, CWFE:Mar 71:185
New York City Wastewater System Management, Martin Lang, CWFE:Mar 71:53
Proposed Environmental Quality Policy for ASCE, Ralph Stone, CWFE:Mar 71:373
Regional Planning Sewerage Systems, John D. Parkhurst, CWFE:Mar 71:337
Regional Waste Water System, Charles B. Kaiser, Jr., CWFE:Mar 71:57
Research Needs in Sanitary Engineering, Jack M. Betz, Chmn., SA2:Apr 72:299:8833

Trapping of Outfall Constituents behind Sills, T. Carstens and A. Sjoberg, 12CEC:71:1917
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204
Youth Makes Waves About Dirty Water, Ray Morales and Ralph Wagner, CWFE:Mar 71:43

Wastewater (Pollution)
Effect of Agricultural Use on Water Quality for Downstream Use for Irrigation, Jerald E. Christiansen, IR73:Aug 73:753
Effects of Wastewaters on Marine Biota, Wheeler J. North, CE13:72:III-2099
Marine Monitoring of the Victoria Sewerage System, Norval Balch, Derek V. Ellis and Jack L. Littlepage, CE13:72:III-2117

Wastewater Disposal
Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178

Waste Water Treatment
Alternate Methods of Wastewater Disinfection, John R. Elwood, Russell H. Isaac and Martin Weiss, NSCD:71:189
Analytic and Process Classification of Effluents, T. Helfgott, J. V. Hunter and D. Rickert, SA3:June 70:779:7374
Bactericidal Disinfectant Testing by Micromethods, Winfred F. Maline, Theodore F. Wetzler and Lloyd G. Herman, NSCD:71:307
Biological Denitrification and Phosphate Removal, Wayne E. Wruble, Charles C. Plummer and Mark J. Hammer, TN: EE5:Oct 74:1199:10855
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Philipps, NSCD:71:163
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Costs and Benefits Reating to Paper Mill Waste Treatment, Arthur Lesser, Jr. and Michael A. Tirabassi, EI1:Jan 74:61:10279
Current Perspectives in Disinfection, Bernard B. Berger, NSCD:71:1
Design Standards for Wastewater Treatment Systems, Robert A. Canham and Louis L. Guy, Jr., CE:Feb 72:40
Five Year Study of Des Moines River Water Quality, E. Robert Baumann, J. G. DeBoer and Charles S. Oulman, IR73:Aug 73:711
Halogen Action on Bacteria, Viruses, and Protozoa, Cornelius W. Kruse, Yu-Chih Hsu, Annabel C. Griffiths and Richard Stringer, NSCD:71:113
Metals in Wastewater Treatment, William H. Ailor, Jr., EE2:Apr 74:295:10444
A New Analytical Method for Ozone, R. F. Layton and Riley N. Kinman, NSCD:71:285
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405
Oxygen Activated Sludge Selected by Philadelphia, Michael D. Nelson, CE:Apr 74:42
Pitfalls in Parameter Estimation for Oxygen Transfer Data, William C. Boyle, Paul M. Berthouex and Thomas C. Rooney, EE2:Apr 74:391:10451
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, NSCD:71:137
Recent Advances in Determining Free Chlorine, George Patterson Whittle, NSCD:71:269
"Recycling Treated Municipal Wastewater and Sludge Through Forest and Cropland" ed. by William E. Sopper and Louis T. Kardos (Book Review), Walter A. Lyon and Marilyn Hewitt, CE: May 74:30
Status of Methods for Halogen Determination (Br-Cl), Frank W. Sollo, Florence F. McGurk and Thurston E. Larson, NSCD:71:245
Two AWT Plants for Fitchburg, William H. Parker, III and William F. Callahan, CE:Sept 74:90
The U.S. Water Quality Program: Desperate Need for Planning Research, Eugene E. Dallaire, CE:Sept 71:63
Valuation of Flow Augmentation Releases, Buford J. Carter, Jr., James P. Heaney and Edwin E. Pyatt, SA3:June 71:345:8203

Wastewater Use
Household Wastewater Characterization, Kenneth Ligman, Neil Hutzler and William C. Boyle, EE1: Feb 74:201:10372
Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405

Water
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, NSCD: 71:319
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71: 617:8425
Chlorine Disinfection of Low Temperature Waters, Leroy C. Reid, Jr. and Dale A. Carlson, EE2:Apr 74:339:10443
Clean Water Management: Objective Decisions or Emotional Reaction, Kerry W. Mulligan, CWFE: Mar 71:1
Clean Water: The Management Problem, Percy Carroll, CWFE:Mar 71:13
Cross-Velocity Behavior in Parallel Channel Flow, James F. Wilson, EM4:Aug 69:921:6736
Data Retrieval on Thermal Pollution, Fred A. Limpert, CE:Nov 70:53
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, NSCD:71:563
Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673
Economics of Water Quality and Wastewater Control, Fred E. Case, CWFE:Mar 71:115
Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856
Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
Effect of Snow Cover on Upward Movement of Soil Moisture, Eugene L. Peck, IR4:Dec 74:405:10989
Engineering Considerations in Disinfection, Robert J. Baker, NSCD:71:683
Equivalent Pipe Methods for Optimizing Water Networks--Facts and Fallacies, Pramod K. Swamee and P. Khanna, EE1:Feb 74:93:10375
Federal Involvement Toward Clean Water for Our Future Environment, Eugene T. Jensen, CWFE: Mar 71:267
Financing Water Quality Control on a National Basis, Morris H. Klegerman, CWFE:Mar 71:131
Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, NSCD:71:453
Free Surface Shear Flow Over a Wavy Bed, Yoshiaki Iwasa and John F. Kennedy, HY2:Mar 68:431:5856
Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73: 421:10229
Functions to Predict Optimal Irrigation Programs, J. Ian Stewart, Robert M. Hagan and William O. Pruitt, IR2:June 74:179:10626
Improving Mercury (II) Removal by Activated carbon, Michael J. Humenick, Jr. and Jerald L. Schnoor, EE6:Dec 74:1249:11032
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, NSCD:71:365
Infiltration Equation in Exponential Forms, Yu-Si Fok, IR4:Dec 67:125:5686
An Integrated Approach to the Problem of Viruses in Water, Gerald Berg, NSCD:71:339
Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3: Sept 72:363:9183

Management: A Key to Irrigation Efficiency, Leonard J. Erie, IR3:Sept 68:285:6107

Mathematical Evaluation of Gaseous and Dry Heat Treatments, C. R. Stumbo, NSCD:71:469

Measurement of Turbulence in Water, Everett V. Richardson and Raul S. McQuivey, HY2:Mar 68: 411:5855

Monitoring Water Pollution by Remote Sensing, James P. Scherz, SU2:Nov 71:307:8550

The Nature of Education in Environmental Engineering at Universities, Rolf Eliassen, CWFE: Mar 71:221

Needed - A New Outlook for Irrigation, Ellis L. Armstrong, OIDS:72:1

New Water for Northern Plains, Richard A. Schleusener, IR1:Mar 70:53:7145

One-Dimensional Infiltration into Layered Soils, Yu-Si Fok, IR2:June 70:121:7343

Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650

Planning for Clean Water in Terms of the Ecology and Social Environment, Percy H. McGauhey, CWFE:Mar 71:29

Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173

Rational Design of Wall Screens, Satya P. Garg and Jagroshan Lal, IR1:Mar 71:131:7969

Report on the Session on Planning for Clean Water in Terms of Ecology and the Social Environment, William F. Garber, CWFE:Mar 71:35

Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443: 9212

Statewide Management -- What Does the Future Hold?, Frank A. Butrico and James B. Coulter, CWFE:Mar 71:93

Status of Water Disinfection with Iodine, Riley N. Kinman, A. P. Black and W. C. Thomas, Jr., 4NSCD:71:11

Subsurface Irrigation System Analysis and Design, Yu-Si Fok and Lyman S. Willardson, IR3:Sept 71: 449:8380

Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Use of Atmometers in Estimating Evapotranspiration, John W. Shannon, IR3:Sept 68:309:6120

Virtual Mass Of Cylinders In Water, Frederic T. Mavis, TN: HY1:Jan 72:319:8617

Water Accounting at Pumping Station S-5A in Florida, Claiborne F. Galliher, IR4:Dec 69:517: 6970

Water and Health-Are We Concerned Enough?, Walter A. Lyon, SA5:Oct 70:1147:7595

Water Features on Topographic Maps, Morris M. Thompson, SU1:July 72:1:9018

Weather Modification Regulation, Richard A. Schleusener, IR3:Sept 70:281:7537

Youth Makes Waves About Dirty Water, Ray Morales and Ralph Wagner, CWFE:Mar 71:43

Water Allocation (Policy)

Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795: 10074

Optimization of an Existing Large Complex Drainage System, N. N. Khanal and Robert L. Hamrick, OIDS:72:503

Water Analysis

Mixing of Columbia River and Ocean Waters in Summer, T. John Conomas and M. Grant Gross, SA5:Oct 68:979:6187

Salmonellae in Fresh Water Pollution, Edwin E. Geldreich and Dale J. Van Donsel, NSCD:71:495

Water Application Rate

Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957

Water Balance

Drainage Density in Drift-Covered Basins, John F. Orsborn, HY1:Jan 70:183:7033

Economics of a Water-Yield Function for Sugar Cane, Howard C. Hogg, Jack R. Davidson and Jen-hu Chang, IR1:Mar 69:127:6448

Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078

Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375: 10013

Water Budget

Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078

Water Chemistry

Control of Natural Chloride, Arkansas-Red Rivers, Myron W. DeGeer and Robert J. Hensley, WW4: Nov 71:631:8494

Water Circulation

Analytical Modeling of Estuarine Circulation, John S. Fisher, John D. Ditmars and Donald R.F. Harleman, CE13:72:III-2297

Cell Method for Computing Lake Circulation, James A. Liggett, HY3:Mar 70:725:7152

Unsteady Circulation in Shallow, Homogeneous Lakes, James A. Liggett, HY4:July 69:1273:6686

Water Column Separation

Photographic Study Of Water Column Separation, Hemmat H. Safwat, TN: HY4:Apr 72:739:8803

Water Conduits

California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78

Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73: 747:9729

Sixty Years of Rock Tunneling in Chicago, Milton Pikarsky, CO2:Nov 71:189:8504

Water Conservation

Comprehensive River Basin Planning, Wallace R. Christensen, PL1:Oct 68:11:6136

Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967

Water Consumption

Changing the Consumptive Use on the Gila River Flood Plain, Southeastern Arizona, Ronald L. Hanson, Frank P. Kipple and Richard C. Culler, IRS:Sept 72:309

Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945

Consumptive Use of Water and Irrigation Water Requirements, Marvin E. Jensen, Chmn., CUWI:74, 215pp.

Current Design Capacity Procedure Used by SCS, Harlan G. Collins, IRS:Sept 72:339

Estimation and Use of Water Production Functions in Crops, Dan Yaron, IR2:June 71:291:8208

Future Irrigation Demand in the Susquehanna Basin, Howard Miller, IR4:Dec 68:391:6278

High Plains Irrigation and Texas Water Plan, Dan M. Wells, IR1:Mar 71:123:7960

Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597

Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211

Managing Multiriver System—Past, Present, and Future, R. Gene Pollan, HY10:Oct 74:1429:10873

Model of Natural Draft Cooling Tower Performance, Lawrence D. Winiarski and Bruce A. Tichenor, SA4:Aug 70:927:7461

Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2: June 72:193:8940

Satisfying Water Needs in Southern California, Jack J. Coe, IR2:June 71:233:8193

Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415
Use of Atmometers in Estimating Evapotranspiration, John W. Shannon, IR3:Sept 68:309:6120
Water Consumption in the Lower Colorado River Valley, O. J. Loeltz and C. C. McDonald, IR1:Mar 69:65:6457
Water Consumption Study for Navajo Plant, Paul Leung and Raymond E. Moore, PO4:Dec 71:749:8564

Water Content
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273
Vibratory Densification of Damp Clayey Sands, Raymond J. Krizek and Jose I. Fernandez, SM8:Aug 71:1069:8320
Water and Pavement Performance, Harry R. Cedergren and Kneeland A. Godfrey, Jr., CE:Sept 74:78

Water Cooled Reactors
Development of a Plastic Strain Energy Absorbing Pipe Whip Restraint Design, Gene A. Esswein, SDNPF:Dec 73:171
Structural Analysis and Design of Pipe Whip Restraints, Frederick L. Moreadith, Garry J. Patterson, C. R. Angstadt and James F. Glova, SDNPF:Dec 73:201

Water Cooling
Thermal Power Plant Environmental Studies, M. J. Doyle, Jr. and Ramon F. Cayot, CE13:72:III-2075
Wind Influence Upon Cooling Water Circulation, Gerrit Abraham and Rob Koudstaal, PO1:Mar 69:63:6466

Water Costs
High Plains Irrigation and Texas Water Plan, Dan M. Wells, IR1:Mar 71:123:7960

Water Current
Dynamics of Ship Anchor-Lines in Waves and Currents, Basil W. Wilson and Donald H. Garbaccio, WW4:Nov 64:449:6888

Water Delivery
Role of Water Delivery System in Water Quality, Gaylord V. Skogerboe, IRS:Sept 72:101

Water Demand
Economic Evaluation of Water Deficiencies, Alan D. Kleinman, IRS:Sept 72:415
Economics of a Water-Yield Function for Sugar Cane, Howard C. Hogg, Jack R. Davidson and Jen-hu Chang, IR1:Mar 69:127:6448
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72, 216pp.
Irrigation Timing to Maximize Economic Crop Yields, Dan Salcedo and W. L. Meier, Jr., OIDS:72:81
Optimum Groundwater Level Decline in Eastern Washington, Walter R. Butcher, IRS:Sept 72:291
Tocks Island Lake Project, Gerald T. McCarthy, EE4:Aug 74:803:10718
Weather Information and Irrigation Scheduling - I. Weather and Irrigation Demand, Wayne L. Decker, OIDS:72:65

Water Deprivation
Economic Evaluation of Water Deficiencies, Alan D. Kleinman, IRS:Sept 72:415
The Evaluation of Water Evaluation, George H. Hargreaves, IRS:Sept 72:273
Predicting Effects of Water Shortage on Crop Yield, J. Ian Stewart and Robert M. Hagan, IR1:Mar 69:91:6443
Streamflow Depletion Resulting from Upstream Surface-Water Impoundment, Stanley P. Sauer, IR73:Aug 73:593
Water Deficits -Irrigation Design and Programming, Robert M. Hagan and J. Ian Stewart, IR2:June 72:215:8955

Water Distribution
Analog Analysis of Water Distribution Networks, Don J. Wood, TE2:May 71:281:8112
Automation in California's State Water Project, Robin R. Reynolds and Welby R. Madsen, PL3:Nov 67:15:5574
Basic Needs of Urban Water Management on the Firing Line, Robert C. McWhinnie, UWRM:71:8
California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78
Capital Cost Minimization of Hydraulic Network, Ralf G. Cembrowicz and Joseph J. Harrington, HY3:Mar 73:431:9606
Cavitation Parameters for Outlet Valves, W. Paul Winn and David E. Johnson, HY12:Dec 70:2519:7771
Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600
Computer Controls for Aqueduct Operation, Alfred R. Golze, PL1:Oct 68:19:6145
Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547
Current Design Capacity Procedure Used by the USBR, Albert E. Gibbs, IRS:Sept 72:331
Design Conduit System By Dynamic Programming, Rex K. Liang, CO1:Mar 71:383:7998
Designing Trickle Irrigation Laterals for Uniformity, Terry A. Howell and Edward A. Hiler, IR4:Dec 74:443:10983
Design of Optimal Hydraulic Networks, Shmuel L.S. Jacoby, HY3:May 68:641:5930
Design of Optimal "Water Distribution Networks, David Karmeli, Y. Gadish and S. Meyers, PL1:Oct 68:1:6130
Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70
Developments in Water System Network Design, V. Raman, SA5:Oct 70:1249:7612
Digital Program for Water Network Analysis, Roger P. Donachie, HY3:Mar 74:393:10424
Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804
Distribution of Energy Losses at Conduit Trifurcations, Bezzam C. Syamala Rao, HY6:Nov 68:1363:6207
Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336
Efficient Code for Steady-State Flows in Networks, Robert Epp and Alvin G. Fowler, HY1:Jan 70:43:7002
Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852
Equivalent Pipe Methods for Optimizing Water Networks--Facts and Fallacies, Pramod K. Swamee and P. Khanna, EE1:Feb 74:93:10375
Estimation of Deep Freezing Indices, George McCormick, TE3:Aug 71:401:8276
Feasibility of Water Export, Edward Kuiper, HY4:July 68:873:6024
Graph-Theoretic Models for Pipe Network Analysis, H. K. Kesavan and M. Chandrashekar, HY2:Feb 72:345:8709
Infiltration of Water into Nonuniform Soil, Herman Bouwer, IR4:Dec 69:451:6937
Integrated Management of Metropolitan Water Services, Edwin L. Vopelak, UWRM:71:36
Irrigating with Cut-Back Furrow Streams, John G. Sakkas and William E. Hart, IR1:Mar 68:91:5852
Least Cost Design of Branched Pipe Network System, Arun K. Deb, EE4:Aug 74:821:10711
Least-Cost Design of Water Distribution Systems, Thawat Watanatada, HY9:Sept 73:1497:9974
Mathematical Model For Water Distribution Systems, Mehdi S. Zarghamee, HY1:Jan 71:1:7797
Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472
Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131
Optimization in Design of Hydraulic Network, Arun K. Deb and Asok K. Sarkar, SA2:Apr 71:141:8032

Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650
An Overview of Contemporary Approaches and Concepts in Metropolitan Water Management, George F. Mangan, Jr., UWRM:71:75
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195
Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327
Resonance in Pressurized Piping Systems, Mohammad Hanif Chaudhry, HY9:Sept 70:1819:7525
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389
Sixty Years of Rock Tunneling in Chicago, Milton Pikarsky, CO2:Nov 71:189:8504
Transportation of Demineralized Water, Roy E. Dodson, PL1:Oct 68:127:6191
A Water Spreading and Well Field Water Supply System, Burt A. Babcock, IRS:Sept 72:225
Water-System Expansion Spurs New Tunnel Technology, Maynard M. Anderson, CE:Sept 70:69

Water Distribution (Applied)

Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, Chan F. Lam and M. L. Wolla, HY3:Mar 72:447:8782
Design Conduit System by Dynamic Programming, Tung Liang, HY3:Mar 71:7988
Distribution Channels with Multiple Outlets, William E. Hart and John Borrelli, IR2:June 72:267:8976
General Statement of Principles to be Included in State Water Rights Laws, Floyd A. Bishop, Chmn., IR2:June 72:317:8996
Least Cost Design of Water Main System in Series, Arun K. Deb, TN: EE3:June 73:405:9764
Research Topics for Small Irrigation Structures, Gaylord V. Skogerboe, Wynn R. Walker, Brent B. Hacking and Lloyd H. Austin, IR3:Sept 70:309:7542
Water Requirements of Rostered Irrigation Schemes, Patrick D. Fitzgerald and Gregory C. Arnold, IR1:Mar 72:91:8767

Water Filters

Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
Theoretical Evaluation of Filter Modeling Experiments, Charles R. Ott and Richard H. Bogan, SA2:Apr 70:455:7233

Water Flow

Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469
Basin Tracer Curves Interpreted by Basic Analytics, A. Adler Hirsch, SA6:Dec 69:1031:6951
Bubbly Two-Phase Flow in Hydraulic Jump, Francois J. Resch, Hans J. Leutheusser and Solomon Alemu, HY1:Jan 74:137:10297
Calibration of Walnut Gulch Supercritical Flumes, Wendell R. Gwinn, HY8:Aug 70:1681:7479
Characteristics of Turbulent Boundary Shear Stress, Paul H. Blinco and Daryl B Simons, EM2:Apr 74:203:10477
Circular Hydraulic Jump, Herman J. Koloseus and Daud Ahmad, HY1:Jan 69:409:6367
Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
Cross-Velocity Behavior in Parallel Channel Flow, James F. Wilson, EM4:Aug 69:921:6736
Desktop Computer Flow Routing, Thomas N. Keefer, HY7:July 74:1047:10669
Discharge and Travel Time for Ground-Water Conduits, Stanley S. Butler and David L. Gundlach, IR1:Mar 74:17:10393
Dispersion and Flushing of Pollutants in Extuaries, Donald W. Pritchard, HY1:Jan 69:115:6344
Distribution of Energy Losses at Conduit Trifurcations, Bezzam C. Syamala Rao, HY6:Nov 68:1363:6207
Dr. Santorio's Water Current Meter, Circa 1610, Arthur H. Frazier, HY1:Jan 69:249:6351
Effect of Flume Width on Bed-Form Characteristics, Maurice J. Crickmore, HY2:Feb 70:473:7077
Effect of Openings on Design of Subsurface Drains, Glenn O. Schwab, Darrell W. DeBoer and Howard P. Johnson, IR1:Mar 69:199:6480
Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8:Aug 72:1367:9088
Effects of Mechanical Cleaning Operations on Flow In Large Conduits, George F. Horowitz and Nelson N. Lee, HY5:May 71:677:8110
Effects of Water Temperature on Bed-Load Movement, John J. Franco, WW3:Aug 68:343:6083
Estimating Discharge From Superelevation in Bends, Robert P. Apmann, HY1:Jan 73:65:9482
Fate of Thermally Polluted Surface Water in Rivers, Cheng-Lung Chen, SA3:June 71:311:8197
Finite Element Shallow Lake Circulation Analysis, Richard H. Gallagher, James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855
Flood Flow Downstream from Slide, Harold P. Guy, TN: HY4:Apr 71:643:8018
Flow Characteristics of Sloping Channel Jumps, Nallamuthu Rajaratnam and Valupadas Mura Hari, HY6:June 74:731:10594
Flow Field Surrounding a Suction Pipe Inlet, David R. Basco and William J. Apgar, HYB:Aug 73:121
Flow-Induced Vibrations of Trashrack Bars, Joseph W. Fortey and Robert F. Tiry, CE:May 72:44
Flow Processes in Open Channel Bends, Robert P. Apmann, HY5:May 72:795:8886
Flow Through Rockfill Dam, Horace A. Johnson, SM2:Feb 71:329:7914
Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465
Fluorometer Calibration Curves and Nomographs, Thomas A. Butts, SA4:Aug 69:705:6728
Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
Grid Turbulence in Initally Turbulent Water Flow, M. H. Abdul Khader and K. Elango, EM6:Dec 74:1149:11003
Horizontal Surface Discharge of Warm Water Jets, Nobuyuki Tamai, Robert L. Wiegel and Gordon F. Tornberg, PO2:Oct 69:253:6847
Hot-Film Turbulence Measurements in Water Flow, Francois J. Resch, HY3:Mar 70:787:7177
Hydraulic Control for Flow Distribution, Kuan M. Yao, SA2:Apr 72:275:8808
Hydraulic Jumps Below Abrupt Symmetrical Expansions, Nallamuthu Rajaratnam and Kanakatti Subramanya, HY2:Mar 68:481:5860
Hydraulic Properties of Small Unlined Rock Tunnels, Seppo Priha, HY4:July 69:1181:6672
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Hydroelectric Power Plant Trashrack Design, Lloyd E. Sell, PO1:Jan 71:115:7819
Infiltration Equation in Exponential Forms, Yu-Si Fok, IR4:Dec 67:125:5686
Influence of Line Motion on Waterhammer Pressures, Don J. Wood, HY3:May 69:941:6572
Laboratory Experiments with Surface Runoff, Ivan Muzik, HY4:Apr 74:501:10463
Laminar and Turbulent Overland Flow Hydrographs, James R. Morgali, HY2:Feb 70:441:7069
Linear Proportional Weirs, P. Sreenivasulu and R. Raghavendran, HY2:Feb 70:379:7062
Manning Formula-A Misnomer, Garnett P. Williams, HY1:Jan 70:193:7036

Markov Models for Flow Regulation, Moshe Gablinger and Daniel P. Loucks, HY1:Jan 70:165:7031

Mean and Turbulent Velocities for Plane Jet, Walter C. Mih and John A. Hoopes, HY7:July 72:1275:9050

The Measurement of Tidal Water Transport in Channels, R. E. Klein, 12CEC:71:1887

Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9:Sept 71:1367:8373

Mississippi River Water for Texas?, Ottoniel Arguello and Raphael G. Kazmann, IR4:Dec 73:441:10212

Mixing of Columbia River and Ocean Waters in Summer, T. John Conomas and M. Grant Gross, SA5:Oct 68:979:6187

Multiple Linearization Flow Routing Model, Thomas N. Keefer and Raul S. McQuivey, HY7:July 74:1031:10668

Nearshore Currents Southeastern Strait of Georgia, M. L. Schwartz, R. C. Fackler, E. A. Hoerauf, C. E. Larsen, K. L. Lingbloom and M. A. Short, CE13:72:III-2503

Nondimensional Gradually Varied Flow Profiles, Cheng-lung Chen and Chun-Tsung Wang, HY5:Sept 69:1671:6790

Nonlinear Flow Through Granular Media, David Ellis Wright, HY3:July 68:851:6018

A Numerical Model for the Hydrodynamics of Lagoons, Jacobus van de Kreeke, CE13:72:III-2241

Obtaining Overland Flow Resistance by Optimization, David L. Schreiber and Donald L. Bender, HY3:Mar 72:429:8773

Optical Current Meter Use in Southern California, Thomas S. Chandler and Winchell Smith, HY9:Sept 71:1461:8390

Particle Size of River Sediments, George Fleming and Thomas Poodle, HY2:Feb 69:431:7068

Photomicroscopic Sublayer Velocity Measurement, Harry G. Wenzel, Jr. and Michael J. Mathews, HY12:Dec 70:2467:7724

Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73:383

Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731

Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856

The Pressure Sewer: A New Alternative to Gravity Sewers, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, CE:May 74:50

Pressure Sewer Demonstration, Italo G. Carcich, Leo J. Hetling and R. Paul Farrell, EE1:Feb 74:25:10315

Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73:771:9733

Rationalization of Lacey's Regime Flow Equations, Mohammad Akram Gill, HY4:July 68:983:6039

Refraction of Water Waves, Jurjen A. Battjes, WW4:Nov 68:437:6206

Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952

Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107

Robert Hooke's Water Current Meter, Circa 1663, Arthur H. Frazier, HY1:Jan 69:439:6369

Runoff Grouping for Detection of Change in Runoff, Hiroshi Nakamichi and Hubert J. Morel-Seytoux, IR2:June 71:275:8201

Salinity Intrusion Effects in Estuary Shoaling, Donald R.F. Harleman and Arthur T. Ippen, HY1:Jan 69:9:6340

Sand Transport During Closure of Tidal Channels, J. N. Svasek, J. H.J. Terwindt and A. W. Walther, CE13:72:II-865

Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Vito A. Vanoni, Chmn., HY1:Jan 71:101:7786

Seepage Under Structure on Four Soil Strata, Charles W. Lenau, EM2:Apr 71:223:8058

Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443:9212

A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717

Soft-ground Tunneling for Storm Sewer, Henry R. Cooke, CE:Apr 71:61

Solution of Flow Under Sluice Gate, Yong Kwun Chung, EM1:Feb 72:121:8744

Steady Seepage Toward Circle of Finite Radius, Bruce W. Hunt, TN: EM2:Apr 71:599:8017

Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691:9216

Temperature Effects in Flows over Nonplanar Beds, Brent D. Taylor, HY12:Dec 74:1785:11015

Tidal Velocities Across A Partly-Completed Barrage, A. Roy Halliwell, HY5:Oct 67:85:5427

Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Transverse Flow in a River due to Earth's Rotation, Hans A. Neu, HY5:Sept 67:149:5434

Triangular Broad-Crested Weir, Clifford D. Smith and Wen S. Liang, IR4:Dec 69:493:6954

Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535

Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468

Unit-Response Method of Open-Channel Flow Routing, Vernon B. Sauer, HY1:Jan 73:179:9499

Universal Formula For Uniform Flow, Walter O. Wunderlich, CE:Jan 70:50

Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, WW2:May 74:85:10514

Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433

Water Accounting at Pumping Station S-5A in Florida, Claiborne F. Galliher, IR4:Dec 69:517:6970

Water Surface Velocities Induced by Wind Shear, Erich J. Plate, EM3:June 70:295:7351

Water Waves Over a Rectangular Channel Through a Reef, Nabil Hilaly, WW1:Feb 69:77:6409

136, Michael C. Quick, HY7:July 70:1403:7399

Water Hammer

Cavitation in Horizontal Pipelines Due to Water Hammer, J. P. Th. Kalkwijk and C. Kranenburg, HY10:Oct 71:1585:8440

Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264

Computation of Oil Pipeline Transients, Michel Kaplan, Victor L. Streeter and E. Benjamin Wylie, PL3:Nov 67:59:5608

Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104

Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70

Effect of Pipeline Junctions on Water Hammer Surges, Don J. Wood and Shen P'eng Chao, TE3:Aug 71:441:8296

Gas Release During Transient Cavitation in Pipes, C. Kranenburg, HY10:Oct 74:1383:10892

New Considerations and Experimental Data on Plastic Pipes, Praxitelis A. Argyropoulos, TN: TE2:May 73:431:9688

Raw Water Transmission System for Springfield, Mass., Walter B. Sinnott and Sheldon S.W. Yuan, TE3:Aug 71:459:8312

Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405:10169

Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72:1117:9014

Transient Elastic Waves in Fluid-Filled Cylinder, Wilton W. King and Daniel Frederick, EM5:Oct 68:1215:6188

Transients in Pipelines Carrying Liquids or Gases, Victor L. Streeter, TE2:Feb 71:15:7884

Valve Stroking in Separated Pipe Flow, Morris Driels, HY11:Nov 74:1549:10940

Water Hammer Analysis, Victor L. Streeter, HY6: Nov 69:1959:6899

Water-Hammer Charts for Various Types of Valves, Don J. Wood and S. E. Jones, HY1:Jan 73:167: 9500

Water Harvesting

Lower Cost Water Harvesting Methods, Keith R. Cooley, Lloyd E. Myers and Gary W. Frasier, IAWM:72:27

Water Intakes

Edward Hyatt Powerplant Intake Structure, Paul H. Gilbert, PO1:Mar 69:110:6471

Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:1:9706

Portage Mountain Intake Structure and Facilities, H. Edward Howe, PO3:June 70:331:7342

Water Law

Can Engineering Forecasters Effect Water Law?, George W. Reid, E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329

Economic Derivation of Reservoir Operating Rules, L. Douglas James, HY5:Sept 68:1217:6111

General Statement of Principles to be Included in State Water Rights Laws, Floyd A. Bishop, Chmn., IR2:June 72:317:8996

Legal Aspects of Weather Modification, Palmer King, IR3:Sept 69:403:6782

State Water Rights Laws, William R. Walker, IR4: Dec 73:449:10217

Water Quality Control in California, B. Norman Hume, SA4:Aug 70:873:7448

Waterlogged Land

Analysis of Canal Seepage to Interceptor Drain, Heramb D. Sharma and Amrik S. Chawla, IR3:Sept 74:351:10819

Water Loss

Analysis of Ephemeral Flow in Aridlands, Chester C. Kisiel, Lucien Duckstein and Martin M. Fogel, HY10:Oct 71:1699:8455

Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250

Future Irrigation Demand in the Susquehanna Basin, Howard Miller, IR4:Dec 68:391:6278

Simulation of Post-Irrigation Moisture Movement, Fred J. Molz, IR4:Dec 72:523:9419

Water Management (Applied)

Analytical Model for Management of Alluvial Aquifers, Raziq Qazi and Jeris Danielson, IR2:June 74:143:10627

An Approach To Operation Of A Regional Primary Water Control Sysrem, William V. Storch and Robert L. Hamrick, SEA:70:45

Are We Really in Trouble, Samuel S. Baxter, WQEF: Mar 70:83

Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957

Basic Needs of Urban Water Management on the Firing Line, Robert C. McWhinnie, UWRM:71:8

Clean Water Management: Objective Decisions or Emotional Reaction, Kerry W. Mulligan, CWFE: Mar 71:1

Clean Water: The Management Problem, Percy Carroll, CWFE:Mar 71:13

Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025

Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269

Digital Model of Alluvial Aquifer, Peter C. Trescott, George F. Pinder and John F. Jones, WW3:May 70:1115:7264

Effect of Transportation Planning on Flood Plain Management, Thomas M. Lee, HY3:Mar 72:475: 8761

Effects of Deforestation on Water Quality, Gene E. Likens, IAWM:72:133

Environmental Issues, Effects, and Solutions, Lynn A. Brown, IR73:Aug 73:511

Evaluation of Effects of Land-Use Changes on Streamflow, David R. Dawdy and James M. Bergmann, IR73:Aug 73:619

Exotic Uses of Aquifers, Raphael G. Kazmann, IR3: Sept 71:515:8352

Exotic Uses Of Aquifers (and their impact on groundwater basin management), Raphael G. Kazmann, SEA:70:295

Field Manager for Water Resource Utilization, Burke Giles, HY10:Oct 74:1411:10893

Fire in Vegetation Management: Its Effects on Soil, L. F. DeBano and Raymond M. Rice, IAWM:72: 327

Fish and Wildlife Values in Water Development, James T. McBroom, IAWM:72:377

Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105

The Flood Management Project for Atchison, Kansas, Bernard T. Pierce, IAWM:72:209

Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85

General Financial Programs for Regional and Large Wastewater Systems, Edwin A. Wells and Jack H. McMinn, CWFE:Mar 71:147

Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136

Ground-Water Hydraulics in Aquifer Management, Eduardo Aguado and Irwin Remson, HY1:Jan 74: 103:10287

Ground Water Management-A Progress Report, Jack J. Coe, IR1:Mar 71:149:7971

Health Aspects of Water Management, Daniel A. Okun, PWS:Nov 72:133

Human Ecology Considerations in Water Quality Management, Albert H. Stevenson, WQEF:Mar 70: 65

The Hydrology and Stability of Cutover Slopes, Donald H. Gray and R. Peter Brenner, IAWM:72: 295

Importance of Flow Measurement in Water Control, W. Roger Walker, IRS:Sept 72:131

Integrated Management of Metropolitan Water Services, Edwin L. Vopelak, UWRM:71:36

Integrating the Planning and Management of Metropolitan Water Resources into a Regional Context, Alexander B. Bigler, UWRM:71:81

Integrating Water Quality and Water Resources Planning, Joseph A. Krivak, HY9:Sept 74:1257: 10829

Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR73:Aug 73:647

Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR3:Sept 74:321:10822

Issues in Water Resources Impact Assessment, Leonard Ortolano, HY1:Jan 74:173:10292

Law Politics and Ground Water Management, Donald Stark, SEA:70:135

Legal Constraints on Urban Water Systems, Neil S. Grigg, UP2:Sept 73:137:9986

Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, HY11:Nov 73:2113:10135

Management and Regulations for the Future Basin Management Techniques, Charles V. Gibbs and Allan L. Poole, CWFE:Mar 71:65

Management and Regulations for the Future, Harvey F. Ludwig, CWFE:Mar 71:111

Management Problems in Flood Plain Areas, Thomas M. Lee, WW3:Aug 72:357:9121

Managing Multiriver System—Past, Present, and Future, R. Gene Pollan, HY10:Oct 74:1429:10873

Managing Water Quality Economics, Technology, Institutions, by Allen V. Kneese and Blair T. Bower, Walter A. Lyon and Richard M. Boardman, CE:Apr 70:32

Master Planning Methodology for Urban Drainage, Harold F. Bishop, HY1:Jan 74:189:10290

Nature of and Need for Interdisciplinary Attacks on Problems of Urban Water Management, J. Ernest Flack, UWRM:71:106
New Directions for Wastewater Collection and Disposal, Daniel A. Okun, CWFE:Mar 71:157
New York City Wastewater System Management, Martin Lang, CWFE:Mar 71:53
Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71:601:8613
Operation and Maintenance of Irrigation and Drainage Systems, Robert L. Taylor, Chmn., IR3:Sept 73:237:10014
Our Water Maze, Maurice K. Goddard, WQEF:Mar 70:107
An Overview of Contemporary Approaches and Concepts in Metropolitan Water Management, George F. Mangan, Jr., UWRM:71:75
The Perimeter Canal—A New Approach to Discharge Urban Water into a Coastal Mangrove Area, Charles H. King, Jr. and Gerald M. Ward, IR73:Aug 73:99
Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113
Policies for Efficient Regional Water Management, W. Charles Howe and Blair T. Bower, IR4:Dec 70:387:7721
Problems of Water Quality Management in Western River Basin Systems, Arthur F. Pillsbury, IR73:Aug 73:729
Regional Waste Water System, Charles B. Kaiser, Jr., CWFE:Mar 71:57
Regional Water Resources Planning: A State View, Guy J. Kelnhofer, Jr., UWRM:71:111
Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241
Role and Function of Systems Analysis, John C. Schaake, Jr., UWRM:71:72
Sediment and Storm Water Control for Fossil Power Plants, Harry C. Grau, EPCE:Aug 74:339
Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020
Some Mythological Aspects of Water Pollution Control, Walter A. Lyon, WQEF:Mar 70:75
Some Notes on Approaches and Viewpoints of Private Agencies to Metropolitan Water Management, Stifel W. Jens, UWRM:71:47
Some Urban Water Resources Mangement Dimensions, D. Earl Jones, Jr., UWRM:71:14
Sources and Transport of Bacterial Indicators in Rural Streams, Samuel H. Kunkle, IAWM:72:105
Statewide Management -- What Does the Future Hold?, Frank A. Butrico and James B. Coulter, CWFE:Mar 71:93
Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
Statewide Water Quality Control Management, Kerry W. Mulligan, CWFE:Mar 71:105
Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658
Strategies of American Water Management, by Gilbert F. White (Book Review), Eugene W. Weber, CE:Feb 70:30
Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660
Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73:133:9783
Urban Water Management Needs in Runoff and Flood Regulation, James R. Wallace, UWRM:71:32
Urban Water Planning and Management: A Conceptual Framework and Problem Focus, John R. Sheaffer, UWRM:71:5
Vegetation Management To Increase Water Yield, Herbert C. Storey and Irvin C. Reigner, IAWM:72:271
Water Accounting at Pumping Station S-5A in Florida, Claiborne F. Galliher, IR4:Dec 69:517:6970
Water Management and the Public, Duane W. Hill and Roy L. Meek, UWRM:71:43
Water Management Aspects of Consolidating Irrigation Systems, Gaylord V. Skogerboe, OIDS:72:293
Water Management Through Irrigation and Drainage: Progress, Problems, and Opportunities, by the Committee on Research of the Irrigation and Drainage Division, Jan van Schilfgaarde, Chmn., IR2:June 74:153:10619
Water Quality Control in California, B. Norman Hume, SA4:Aug 70:873:7448
Water Quality Standards--Salvation or Curse, James B. Coulter, WQEF:Mar 70:97
Water Resources Management, Langdon W. Owen, SEA:70:157

Water Pipelines
Photoelastic Model Studies of Wye Manifold Branches, S. Redner and J. H. Perrotta, PL1:Oct 68:107:6180

Water Pipes
The Undersea Aqueduct -- A New Concept in Transportation, Ellis L. Armstrong, TE2:May 72:303:8893
Vancouver Uses Innovative Ways for Placing Large Submarine Pipelines, Doug McKay, Don Gillis and Robin Durward, CE:Oct 74:74
What's New in Sewer and Water Pipe, Kneeland A. Godfrey, Jr., CE:May 74:72

Water Plans
Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269
Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100
Economic Impact of the Conversion of Water from Irrigation to Municipal and Industrial Use in the Rio Grande Basin of New Mexico, Edwin A. Lewis, IR73:Aug 73:67
Economics of Water Resources Planning, by L. Douglas James and Robert L. Lee (Book Review), Richard J. McDonald, CE:June 71:32
Environmental Issues, Effects, and Solutions, Lynn A. Brown, IR73:Aug 73:511
Groundwater Model as a Tool in Planning and Management, Robert W. Charley, Edwin V. Lance and G. Morgan Powell, IR73:Aug 73:251
Institutional Aspects of Water Management, Edwin S. Haycock, OIDS:72:265
Integrating Water Quality and Water Resources Planning, Joseph A. Krivak, HY9:Sept 74:1257:10829
Managing Multiriver System—Past, Present, and Future, R. Gene Pollan, HY10:Oct 74:1429:10873
New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19
Principles and Standards -- Water and Land Planning, Gary D. Cobb, IRS:Sept 72:399
The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492
Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732
Social and Institutional Aspects of Irrigation and Drainage, Asit K. Biswas, OIDS:72:261
Theory and Practice of Public Participation in Planning, Gene E. Willeke, IR1:Mar 74:75:10391
Timing and Sizing of Complex Water Resource Systems, Leonard Becker and William Wen-Gong Yeh, HY10:Oct 74:1457:10883
Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996
The Water Studies Program at Stanford University, Perry L. McCarty, CEE:Feb 74:1-193

Water Policy
Ground Water Management-A Progress Report, Jack J. Coe, SEA:70:105

Law Politics and Ground Water Management, Donald Stark, SEA:70:135

Water Pollution

Adsorption of Pesticides by Clay Minerals, Ju-Chang Huang and Cheng-Sun Liao, SA5:Oct 70:1057:7603
Aerial Color Analyses of Water Quality, Kenneth R. Piech and J. E. Walker, SU2:Nov 71:185:8507
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71:321:8545
Agricultural Waste Management, J. Ronald Miner, EE2:Apr 74:363:10470
Animal Wastes--A National Problem, Raymond C. Loehr, SA2:Apr 69:189:6493
Application of Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE1:Feb 74:61:10322
Application of New Technology to the Solution of Environmental Problems, Ralph E. Fadum, PWS:Nov 72:219
Are We Really in Trouble, Samuel S. Baxter, WQEF:Mar 70:83
Armco Steel Works Features Pollution Control, Charles G. Kramer, CE:June 70:37
Arrested Wedge in Circular Tube, James J. Sharp and Chung-su Wang, TN: HY7:July 74:1085:10640
Biological Control of Aquatic Weeds, Robert D. Blackburn, David L. Sutton and Thomas Taylor, IR3:Sept 71:421:8362
Biological Effects of Spoil Disposal in Chesapeake Bay, David A. Flemer, W. L. Dovel, H. T. Pfitzenmeyer and D. E. Ritchie, SA4:Aug 68:683:6081
Biological Implications Of Water Resource Management, Taylor R. Alexander, SEA:70:1
Cell Method for Computing Lake Circulation, James A. Liggett, HY3:Mar 70:725:7152
Chlorination Dynamics in Wastewater Effluents, Yehuda Kott, SA5:Oct 71:647:8433
Chlorine Disinfection of Low Temperature Waters, Leroy C. Reid, Jr. and Dale A. Carlson, EE2:Apr 74:339:10443
Circulation in Shallow Homogeneous Lakes, James A. Liggett and Christos Hadjitheodorou, HY2:Mar 69:609:6454
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HY6:June 74:719:10584
Coagulation of Iron Oxide with Alum, Kamlesh K. Jain, Kun Li and Robert R. Rothfus, EE4:Aug 73:411:9945
Coastal Processes from Space Photography, Maynard M. Nichols, 12CEC:71:641
Coliform-Fecal Coliform Bacteria in Tidal Waters, Gerald A. Strobel, SA4:Aug 68:641:6068
Collection of Oil Slicks, Ralph H. Cross, III and David P. Hoult, WW2:May 71:313:8122
Combined Sewer Considerations by Philadelphia, Carmen F. Guarino, Joseph V. Radziul and William L. Greene, SA1:Feb 70:1:7050
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Combined Sewers and Stormwater Drainage - Today and 2050 AD, Carmen F. Guarino and Joseph V. Radziul, CWFE:Mar 71:349
Computer Studies of Estuary Water Quality, Donald O. Hodgins and Michael C. Quick, CE13:72:III-2317
Control of Water Pollution During Dam Construction, Charles A. McCullough and Robert R. Nicklen, SA1:Feb 71:81:7927
The Cost of Pollution, Reinhold W. Thieme, WQEF:Mar 70:29
A Counter-Perspective on Pollution Problems, Jimmie L. Thomas, CE:Aug 74:80
Critique of Water Pollution Control Act, Anthony H.J. Dorcey and Irving K. Fox, EE1:Feb 74:141:10326
Deep-Well Disposal of Wastes, William R. Walker and Ronald C. Stewart, SA5:Oct 68:945:6171
Design Principles of Waste Stabilization Ponds, D. Thirumurthi, SA2:Apr 69:311:6515
Design Sensitivity of Pollution Control Reservoirs, George K. Young, Jr., R. W. Schrecongost and W. N. Fitch, SA5:Oct 68:829:6147
Dialogue--Is Water Quality Enhancement Feasible?, Stanley E. Kappe, WQEF:Mar 70:3
Difference Modeling of Stream Pollution, David A. Bella and William E. Dobbins, SA5:Oct 68:995:6192
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, NSCD:71:563
Dispersion and Flushing of Pollutants in Extuaries, Donald W. Pritchard, HY1:Jan 69:115:6344
Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553
Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138
Diversion of Wastewater from Madison Lakes, William C. Sonzogni and G. Fred Lee, EE1:Feb 74:153:10318
DO-Sag in Oscillating Flow, Wen-Hsiung Li and Michael Edwin Kozlowski, EE4:Aug 74:837:10713
Dredge Spoil Surveillance In Shellfish Areas, George W. Allen and Donald M. Conlon, CEO-II:70:823
Dredging and the Environment: The Plus Side, Thomas M. Turner and Virginia Fairweather, CE:Oct 74:62
Dynamic Leaching Studies on Pulpwood Bark Residues, Arthur H. Benedict, James J. McKeown and Russell D. Hart, EE4:Aug 74:869:10701
Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
The Economic Aspects of Water Pollution Control, James J. Flannery, WQEF:Mar 70:57
Economics of Water Quality and Wastewater Control, Fred E. Case, CWFE:Mar 71:115
Effect of Agricultural Use on Water Quality for Downstream Use for Irrigation, Jerald E. Christiansen, IR73:Aug 73:753
Effect of Stream Turbulence on Heated Water Plumes, James Weil and Hugo B. Fischer, HY7:July 74:951:10674
Effects of Farming—Urban Drainage on Fresh Water, C. W. Sheffield and William M. Bishop, IR73:Aug 73:691
Effects of Temperature on Phytoplankton Growth, Raymond P. Canale and Allan H. Vogel, TN: EE1:Feb 74:231:10309
Electrode Potential Control Of Ocean Outfalls, Werner N. Grune, Philip Quinn and Susan DiPrima, CEO-II:70:1187
Enteric Disease Criteria for Recreational Waters, John M. Henderson, SA6:Dec 68:1253:6320
Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265:9757
Environmental Design for Istanbul Sewage Disposal, Charles G. Gunnerson, EE1:Feb 74:101:10343
Environmental Effects of Oil Pollution, Thomas A. Murphy, SA3:June 71:361:8221
Environmental Impact of the New Jersey Turnpike Toms River Extension, John C. Goodrich and Byron H. Willis, UT73:May 73:253
Environmental Impact of Wastewater Discharges, E. R. Hendrickson and J. B. Koogler, SEA:70:91
Environmental Effects of Overboard Spoil Disposal, Robert B. Biggs, SA3:June 68:477:5979
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
Evaluation of Nitrification in Streams, Chester T. Wezenak and John J. Gannon, SA5:Oct 68:883:6159
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177:9794
Fate of Thermally Polluted Surface Water in Rivers, Cheng-Lung Chen, SA3:June 71:311:8197

The Federal Water Pollution Control Administration's Research Program on Ocean Pollution Control, Arnold B. Joseph, Fred D. Sisler, Donald J. Baumgartner and William A. Cawley, CEO-II:70:465
Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313:10241
Final Report--Comprehensive Study of San Francisco Bay--Summary Conclusions and Recommendations, prepared by University of California, Berkeley, Division of Hydraulic and Sanitary Engineering (Book Review), Arthur J. Inerfield, CE:Mar 72:15
Five Year Study of Des Moines River Water Quality, E. Robert Baumann, J. G. DeBoer and Charles S. Oulman, IR73:Aug 73:711
Flushing Characteristics of Small-Boat Marinas, Ronald E. Nece and Eugene P. Richey, CE13:72:III-2489
Function of the International Joint Commission, Eugene W. Weber, PO2:Nov 68:177:6236
Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679
Ground Water Quality, West Jefferson County, Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417
Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
Human Ecology Considerations in Water Quality Management, Albert H. Stevenson, WQEF:Mar 70:65
Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469
Improving Mercury (II) Removal by Activated carbon, Michael J. Humenick, Jr. and Jerald L. Schnoor, EE6:Dec 74:1249:11032
Industrial Waste Surcharges, Robert L. Coughlin, CWFE:Mar 71:323
Influence of Free CO_2 on Q_{10} for Chlorella vulgaris, John T. Novak and H. David Sanders, TN: EE3:June 74:798:10571
Influences of Sedimentation on Water Quality: An Inventory of Research Needs, Robert H. Livesey, Chmn., HY8:Aug 71:1203:8325
Information Sources on Water Quality, Including Thermal Pollution, Fred A. Limpert, Chmn., SA3:June 72:569:8987
Infrared Aerial Surveys in Environmental Engineering, Rudolph V. Matalucci and Mohamed Abdel-Hady, SA6:Dec 68:1071:6277
Instream Aeration: An Alternative to Advanced Waste Treatment, William Whipple, Jr., CE:Sept 70:78
Instream Aerators for Polluted Rivers, William Whipple, Jr., Francis P. Coughlan, Jr. and Shaw L. Yu, SA5:Oct 70:1153:7631
Intertidal Communities as Monitors of Pollution, R. T. Oglesby and David Jamison, SA3:June 68:541:6008
Introductory Remarks, Richard E. Burnett, ECCD:72:347
Iowa's Dilemma--or--the Iowa Dilemma, WQEF:Mar 70:15
Japan Develops Water Pollution Control Technology, Takeshi Goda and Hisashi Sumitomo, CE:Nov 71:42
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
Land Application of Treated Sewage, Kneeland A. Godfrey, Jr., CE:Sept 73:103
Leaching of Pollutants from Wood-Chip Slurry, Takashi Asano, Alan T. Towlerton and Robert L. Sanks, EE4:Aug 74:855:10707
A Least-Cost Analysis For The Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, CEO-II:70:269
Legal Aspects of Thermal Discharges, Angel J. Martin, HY7:July 74:1059:10682
Legal Problems in Water Pollution Control, Dwight F. Metzler, HY1:Jan 74:221:10260
Lignosulphonates in Lake Paijanne Water, Seppo Priha, SA2:Apr 71:191:8021
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711
Longitudinal Dispersion in Sinuous Channels, Shoju Fukuoka and William W. Aure, HY1:Jan 73:195:9479
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, CEO-II:70:249
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165:9768
Measuring Subsurface Spring Flow With Radiotracers, William C. Galegar and Myron W. DeGeer, SA6:Dec 69:1097:6973
Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73:257:9753
Mineral Scavenging and Marine Pollution, Richard G. Bader, CEO-II:70:1
Monitors Solve Fish-kill Mystery, Bruce R. Barrett, CE:Jan 71:40
Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930
Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909:10208
Natural Virus Inactivation Processes in Sea Water, Hillel I. Shuval, Andrew Thompson, Badri Fattal and Samuel Cymbalista, NSCD:71:429
Nearshore Currents Southeastern Strait of Georgia, M. L. Schwartz, R. C. Fackler, E. A. Hoerauf, C. E. Larsen, K. L. Lingbloom and M. A. Short, CE13:72:III-2503
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
New Trends in Tertiary Treatment, Vinton W. Bacon and Tom H. Forrest, CWFE:Mar 71:185
Numerical Studies of Unsteady Dispersion in Estuaries, Donald R. F. Harleman, Chok-Hung Lee and Lawrence C. Hall, SA5:Oct 68:897:6160
Ocean Dumping: What and Where, If at All?, Eugene E. Dallaire, CE:Nov 71:58
Oil Boom for Emergency Harbor Use, Ralph H. Cross, III and John J. Cunningham, WW1:Feb 73:27:9531
Oil Booms in Tidal Currents, Ralph H. Cross, III and David P. Hoult, 12CEC:71:1745
Oil Booms in Tidal Currents, Ralph H. Cross, III and David P. Hoult, WW1:Feb 72:25:8719
On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335
Optimum Dredging and Disposal Practices in Estuaries, Carl C. Cable, HY1:Jan 69:103:6343
Our Water Maze, Maurice K. Goddard, WQEF:Mar 70:107
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
Pennsylvania Erases Its Mining Scars, Alfred C. Ackenheil, CE:Oct 70:54
Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
Politics and Water Pollution, William H. Wisely, CE:Oct 70:41
Pollution of the Marine Environment by Oig, Ralph L. Rhodes, CEO-II:70:1211
Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB:Aug 73:427
Power Optimization for Prescribed Thermal Pollution, Amir N. Nahavandi and Michael Pappas, PO3:July 71:631:8254
Predicting Reaeration Coefficients for Polluted Estuary, Gary R. Kramer, EE1:Feb 74:77:10351
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856

Preliminary Design of Wastewater Treatment Systems, Robert Smith, SA1:Feb 69:117:6426
Primary Treatment Followed by Reverse Osmosis, Donald L. Feuerstein and Tom H. Forrest, CWFE: Mar 71:179
Probabilistic Variations in Ultimate First Stage BOD, Veerasamy Kothandaraman, SA1:Feb 70:27:7054
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, NSCD:71:137
Problems of Oil Pollution on Coastal Waters and Beaches, Uwe Carow, CE13:72:III-2533
Public Health Effects of Water, Air and Land Pollution, Gwilym M. Roberts, PWS:Nov 72:117
Public Health Service Solid Wastes Program, Richard D. Vaughan and Ralph J. Black, SA2:Apr 69:233: 6500
Radial Dispersion in Ground-Water Flow, Bruce W. Hunt, EM6:Dec 74:1117:10998
Rapid Coastal Bottom Water Temperature Rises, Paul D. Higley and David O. Cook, EE4:Aug 74: 955:10734
Recommendations for Environmental Engineering Education, Wesley O. Pipes, EE2:Apr 74:243:10459
Recommendations for Urban Health, Everett MacLeman, CEWAU:74:158
Regional Water Quality Standards, Ralph Porges, SA3:June 69:423:6596
Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503
Removal of Lignin from Water by Precipitate Flotation, Mu-Hao Wang, Marvin L. Granstrom, Thomas E. Wilson and Lawrence K. Wang, EE3: June 74:629:10574
Research and Development Needs for Advanced Waste Treatment Process to Serve Future Needs, Francis M. Middleton and Robert L. Stenburg, CWFE:Mar 71:189
Research Needs, Leonard B. Dworsky, EPCE:Aug 74:467
Research Needs in the Civil Engineering Aspects of Power, E. Roy Tinney, Chmn., PO2:Feb 70:187: 7073
Research Needs on Thermal and Sedimentary Pollution in Tidal Waters by the Committee on Tidal Hydraulics of the Hydraulics Division, Frank D. Masch, Chmn., HY7:July 70:1539:7426
Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543
Salmonellae in Fresh Water Pollution, Edwin E. Geldreich and Dale J. Van Donsel, NSCD:71:495
The San Francisco Bay-Delta Water Quality Control Program, J. E. Stann and J. R. Ringwood, CE:June 69:74
Screening Model for Storm Water Control, Paul H. Krishen and David H. Marks, EE4:Aug 74:807: 10712
Sediment Pollution in Coastal Waters, Jacobus van de Kreeke, 12CEC:71:1803
Silver Iodide Generators and Public Health, William J. Douglas, IR3:Sept 70:273:7535
Simple Method for Predicting Dispersion in Streams, Raul S. McQuivey and Thomas N. Keefer, EE4: Aug 74:997:10708
Solidification of Sludges with Portland Cement, E. Alan Cassell and Thomas W. Walker, SA1:Feb 70: 15:7053
Some Comments on Coastal Engineering, Morrough P. O'Brien, CE13:72:I-3
Some Mythological Aspects of Water Pollution Control, Walter A. Lyon, WQEF:Mar 70:75
Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
Statistical Assessment of DO in Navigation Pool, Thomas A. Butts, Donald H. Schnepper and Ralph L. Evans, SA2:Apr 70:477:7235
Statistical Evaluation of Reaeration Prediction Equations, Linfield C. Brown, EE5:Oct 74:1051: 10849
Status of Radioactive Waste Disposal in U.S.A., Frank L. Parker, SA3:June 69:439:6597
Steady-state Profile for Oil Barriers, Richard Robbins, David P. Hoult and Ralph H. Cross, III, TN: WW1:Feb 71:235:7891
Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093
Stochastic Model for BOD and DO in Estuaries, Stephen W. Custer and Richard G. Krutchkoff, SA5:Oct 69:865:6834
Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296
Students Revitalize On-Campus Lake, John G. Gonzales and Paul A. Ferrari, CE:June 71:38
Surface Jet at Small Richardson Numbers, Frank Engelund and Flemming Bo Pedersen, HY3:Mar 73:405:9588
Thermal-Pollution Threat Draws Nearer, Eugene E. Dallaire, CE:Oct 70:67
Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72: 305:8810
Total Dollar Benefit of Water Pollution Control, Nelson L. Nemerow and Robert C. Faro, SA3:June 70:665:7323
Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947
Transport of Dissolved Wastes in Rivers, Roger Don Shull and Earnest F. Gloyna, SA6:Dec 69:995:6948
Transverse Dispersion in Oscillatory Channel Flow, Peter R.B. Ward, HY6:June 74:755:10589
Treatment of Mine Drainage by Industry in Pennsylvania, Walter N. Heine and Ernest F. Giovannitti, SA3:June 70:743:7362
Treatment of Refinery Waste by Physicochemical Processes, Ju-Chang Huang and Michael G. Hardie, SA4:Aug 71:467:8318
Trends in Financial Support for Water Pollution Control, David H. Howells, SA3:June 67:1:5271
Turbulent Diffusion and Entrainment in Two-Layer Flow, T. Carstens, WW1:Feb 70:97:7081
USBR Specifications Focus on Environment, Bernard P. Bellport, CE:July 71:50
Valuation of Flow Augmentation Releases, Buford J. Carter, Jr., James P. Heaney and Edwin E. Pyatt, SA3:June 71:345:8203
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109
Viral Disinfection of Estuarine Water by UV, William F. Hill, Jr., Elmer W. Akin, William H. Benton and Frederick E. Hamblet, NSCD:71:223
Viral Pollution and Depuration of Shellfish, Oscar C. Liu, NSCD:71:397
Viral Pollution of Shellfish in Estuary Waters, T. G. Metcalf and W. C. Stiles, SA4:Aug 68:595:6063
Waste Management In The Marine Environment, Clarence M. Tarzwell, CEO-II:70:477
Water Pollution and Associated Effects from Street Salting, Richard Field, Edmund J. Struzeski, Jr., Hugh E. Masters and Anthony N. Tafuri, EE2:Apr 74:459:10473
Water Pollution Control by Hydraulic Aeration, Hans J. Leutheusser and Francois J. Resch, HYB:Aug 73: 315
Water Pollution on the Continental Shelf, John S. Farlow, Lester M. Klashman and Merrill S. Hohman, CEO-II:70:1233
Water Quality and Environmental Quality, Thomas L. Kimball, WQEF:Mar 70:51
Water-Quality Management in Irrigation Systems, Gerald T. Orlob and Philip C. Woods, IR2:June 67: 49:5280
Water Quality Management - Power Station Coal Ashes, Dennis W. Weeter, James E. Niece and Anthony M. DiGioia, Jr., EPCE:Aug 74:633
Water Quality Monitoring For Pollution Control On The Continental Shelf, T. A. Wastler and Harold Berkson, CEO-II:70:221
Water Quality Standards--Salvation or Curse, James B. Coulter, WQEF:Mar 70:97
What Industry is Doing About Pollution Control, Charles Hemming, CE:Sept 71:59

What's New in Deep-Well Injection?, Herman Bouwer, CE:Jan 74:58
Youth Makes Waves About Dirty Water, Ray Morales and Ralph Wagner, CWFE:Mar 71:43

Water Pollution Control
Cleanup of San Diego Bay, Roy E. Dodson, CE:Mar 72:62
Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60
Corps of Engineers Plans Regional Water Quality Program, William Whipple, Jr., CE:Mar 72:37
Design Standards for Wastewater Treatment Systems, Robert A. Canham and Louis L. Guy, Jr., CE:Feb 72:40
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
The Flood Management Project for Atchison, Kansas, Bernard T. Pierce, IAWM:72:209
National Water Commission Report, Charles F. Luce, Ted Schad and Victor Koelzer, CE:May 73:70
Oil Booms in Tidal Currents, Ralph H. Cross, III and David P. Hoult, 12CEC:71:1745
Oil Booms in Tidal Currents, Ralph H. Cross, III and David P. Hoult, WW1:Feb 72:25:8719
Putting Pollution Problems In Perspective, Charles L. Gould, CE:Aug 73:64
Research Needs in Evironmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, Kay H. Jones, Chmn., EE6:Dec 73:801:10198
Rock Tunnels to Control Pollution and Flooding, Vinton W. Bacon and William T. Painter, URC:72:115
Swimming Again in Lake Washington, Walter E. Jessup, CE:Mar 72:60
The U.S. Water Quality Program: Desperate Need for Planning Research, Eugene E. Dallaire, CE:Sept 71:63
Water Pollution Control by Hydraulic Aeration, Hans J. Leutheusser and Francois J. Resch, HYB:Aug 73:315

Water Pollution Effects
Cleanup of San Diego Bay, Roy E. Dodson, CE:Mar 72:62
A Numerical Model of Estuarine Pollutant Transport, Hugo B. Fischer, CE13:72:III-2255

Water Pollution Sources
The U.S. Water Quality Program: Desperate Need for Planning Research, Eugene E. Dallaire, CE:Sept 71:63

Water Pressure
Construction and Operation of Pump Irrigation Facilities Along the Columbia and Okanogan Rivers, Boyd H. Walter, OIDS:72:161
Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
Evaluation of Anaerobic Denitrification Processes, Daniel F. Seidel and Ronald W. Crites, SA2:Apr 70:267:7211
Movements in Dams Due to Reservoir Filling, Esmail S. Nobari and James M. Duncan, PES:72:I-797
Pressure Fluctuations on Submerged Sluice Gate, Gordon Keir, Tharakkal E. Unny and Harry M. Hill, HY4:Nov 69:1781:6875
Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919
Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73:589
Sea State Measurements from Pressure Records, Y. Y. Kim and L. H. Simon, WAVES:Sept 74:40
Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72:1117:9014
Storage of Oil in Unlined Caverns in Different Types of Rock, Carl-Olof Morfeldt, RM14:73:409
Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Waterproofing
Creating Hydrophobic Soil for Water Harvesting, Lloyd E. Myers and Gary W. Frasier, IR1:Mar 69:43:6436
Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54
Polymer as Surface Treatment for Concrete, Alvin H. Meyer, ST6:June 74:1205:10615

Water Purification
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71:617:8425
Federal Involvement Toward Clean Water for Our Future Environment, Eugene T. Jensen, CWFE:Mar 71:267
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45
Planning for Clean Water in Terms of the Ecology and Social Environment, Percy H. McGauhey, CWFE:Mar 71:29

Water Quality
Ammonia Nitrogen Losses from Streams, Frank E. Stratton, SA6:Dec 68:1085:6282
Analysis of Water Temperature Variations in Large River, Veerasamy Kothandaraman, SA1:Feb 71:19:7908
Analysis Techniques for Houston Ship Channel, Roy W. Hann, Jr., WW2:May 70:171:7258
Application of Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE1:Feb 74:61:10322
Approaches and Viewpoints of State Natural Water Resources Agencies, William Whipple, Jr., UWRM:71:100
Are We Really in Trouble, Samuel S. Baxter, WQEF:Mar 70:83
Artificial Ground-Water Recharge by Means of Wells in Israel, Yoav Harpaz, HY12:Dec 71:1947:8579
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
Change in Quality of Pumped Drainage Effluent, Enos J. Carlson, IR73:Aug 73:195
Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812
Computer Studies of Estuary Water Quality, Donald O. Hodgins and Michael C. Quick, CE13:72:III-2317
Concepts and Utilities of Ecologic Model, Carl W. Chen, SA5:Oct 70:1085:7602
Consumers Water Quality Index, Thomas M. Walski and Frank L. Parker, EE3:June 74:593:10601
Controlling Salinity by Lining Distribution System, Wynn R. Walker, IRS:Sept 72:113
Control of Bacterial Growths in Rapid Sand Filters, John T. O'Connor and Kalyanpur Y. Baliga, SA6:Dec 70:1377:7767
Control of Natural Chloride, Arkansas-Red Rivers, Myron W. DeGeer and Robert J. Hensley, WW4:Nov 71:631:8494
Cooling Water Sources For Power Generation, Louis G. Hauser, PO1:Jan 71:123:7804
The Cost of Pollution, Reinhold W. Thieme, WQEF:Mar 70:29
Cost of Thermal Effluent Standards for Power Plants, Leonard Ortolano and Frank A. Smith, PO1:July 74:15:10649
Cultural Influences on Irrigation Drainage Water, J. R. Busch, D. W. Fitzsimmons, G. C. Lewis, D. V. Naylor and R. D. Carlson, IRS:Sept 72:45
Damage Assessment of Household Water Quality, Dennis P. Tihansky, EE4:Aug 74:905:10700
Design of U-Tube Aeration Systems, Richard E. Speece and Rudolph Orosco, SA3:June 70:715:7348

Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367:10227

Dialogue--Is Water Quality Enhancement Feasible?, Stanley E. Kappe, WQEF:Mar 70:3

Dilution of Buoyant Two-Dimensional Surface Discharges, Heinz Stefan, HY1:Jan 72:71:8653

Distribution of Pesticides in California, Thomas E. Bailey and John R. Hannum, SA5:Oct 67:27:5510

The Economic Aspects of Water Pollution Control, James J. Flannery, WQEF:Mar 70:57

Economics of Water Quality and Wastewater Control, Fred E. Case, CWFE:Mar 71:115

Effect of Agricultural Use on Water Quality for Downstream Use for Irrigation, Jerald E. Christiansen, IR73:Aug 73:753

Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722

Effect of Intake Elevation and Operation on Water Temperature, Walter O. Wunderlich and Rex A. Elder, HY6:Nov 69:2081:6917

Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73:691:10046

Effects of Deforestation on Water Quality, Gene E. Likens, IAWM:72:133

Effects of Farming—Urban Drainage on Fresh Water, C. W. Sheffield and William M. Bishop, IR73:Aug 73:691

Effects of Urbanization on Water Quality, Robert P. Shubinski and Gerald F. Tierney, UT73:May 73:179

Engineering Evaluation of Virus Hazard in Water, by the Committee on Environmental Quality Management of the Sanitary Engineering Division, Bernard B. Berger, Chmn., SA1:Feb 70:111:7112

Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342

Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265:9757

Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50

Erosion Control in Relation to Watershed Management, William R. Moore and C. Edwin Smith, IR3:Sept 68:321:6126

Estimation Theory Applications to Design of Water Quality Monitoring Systems, Stephen F. Moore, HY5:May 73:815:9755

Estuaries Need Freshwater, Charles R. Chapman, SEA:70:233

Estuarine Water Quality Management, Richard L. Rosenberger and Raymond Walsh, SA05:Oct 68:913:6164

Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735

Evaluation of Agricultural Drainage in Water Quality Management, T. Clark Lyons, Dwight P. Russell and Roger G. Fry, IR73:Aug 73:529

Evaluation of Anaerobic Denitrification Processes, Daniel F. Seidel and Ronald W. Crites, SA2:Apr 70:267:7211

Evaluation of Phosphorus Dynamics in a Watershed, Thomas H. Cahill, Patricia Imperato and Francis H. Verhoff, EE2:Apr 74:439:10445

Farming, Forestry, and Water Quality, Theodore C. Byerly, WQEF:Mar 70:115

Finite-Difference Convection Errors, David A. Bella and William J. Grenney, SA6:Dec 70:1361:7744

Five Year Study of Des Moines River Water Quality, E. Robert Baumann, J. G. DeBoer and Charles S. Oulman, IR73:Aug 73:711

Flushing Characteristics of Small-Boat Marinas, Ronald E. Nece and Eugene P. Richey, CE13:72:III-2489

Ground Water Quality, West Jefferson County Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417

Human Ecology Considerations in Water Quality Management, Albert H. Stevenson, WQEF:Mar 70:65

Hydraulic Engineering and the Environment, William A. Hunt, Chmn., HYB:74, 466pp.

Hydrologic Concepts in Suburban Planning, Ed L. Reed, IRS:Sept 72:185

Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205

Impacts of Colorado River Salinity, Vernon E. Valantine, IR4:Dec 74:495:10985

Industry and Conservation--A Strange but Compatible Marriage, George B. Angevine, WQEF:Mar 70:45

Influence of Summer Use of a Mountain Watershed on Bacterial Water Quality, Quentin D. Skinner, John C. Adams and Paul A. Rechard, IRS:Sept 72:57

Influences of Sedimentation on Water Quality: An Inventory of Research Needs, Robert H. Livesey, Chmn., HY8:Aug 71:1203:8325

Information Sources on Water Quality, Including Thermal Pollution, Fred A. Limpert, Chmn., SA3:June 72:569:8987

In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62

Integrating Water Quality and Water Resources Planning, Joseph A. Krivak, HY9:Sept 74:1257:10829

Iowa's Dilemma--or--the Iowa Dilemma, WQEF:Mar 70:15

Irrigation Management for Salt Control, Jan van Schilfgaarde, Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR73:Aug 73:647

Jet-Forced Circulations in Water-Supply Reservoirs, Rodney J. Sobey and Stuart B. Savage, HY12:Dec 74:1809:11026

Land Use as a Factor in Coastal Water Quality, Percy H. McGauhey, CE13:72:III-2091

Law Politics and Ground Water Management, Donald Stark, SEA:70:135

Lignosulphonates in Lake Paijanne Water, Seppo Priha, SA2:Apr 71:191:8021

Managing Canal System for Water Quality Control, Thomas L. Huntzinger and James H. Taylor, IRS:Sept 72:171

Managing Water Quality Economics, Technology, Institutions, by Allen V. Kneese and Blair T. Bower, Walter A. Lyon and Richard M. Boardman, CE:Apr 70:32

Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387

Marine Disposal of Solid Wastes, Charles G. Gunnerson, Robert P. Brown and David D. Smith, CEO-II:70:249

Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73:257:9753

Modeling Spread of Heated Water over Lake, Heinz Stefan, PO3:June 70:469:7375

Monitoring Water Pollution by Remote Sensing, James P. Scherz, SU2:Nov 71:307:8550

Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909:10208

Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253:9795

Multilevel Outlet Works at Four Existing Reservoirs, Garry H. Austin, Donald A. Gray and Donald G. Swain, HY6:Nov 69:1793:6877

Multiobjective Planning for Environmental Quality, George H. Wallen, IRS:Sept 72:359

Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192

Multivariate Techniques for Water Quality Analysis, Jerome L. Mahloch, EE5:Oct 74:1119:10840

Nitrogen Losses from Alkaline Water Impoundments, Frank E. Stratton, SA2:Apr 69:223:6495

No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46

Nonlinear Parameter Estimation in Water Quality Modeling, J. S. Shastry, Liang-tseng Fan and L. E. Erickson, EE3:June 73:315:9798

Operational Hydrology Using Residuals, George K. Young, Jr. and William C. Pisano, HY4:July 68:909:6034

Optimal Reservoir Releases for Water Quality Control, Norbert A. Jaworski, Walter J. Weber, Jr. and Rolf A. Deininger, SA3:June 70:727:7361

Optimum Dredging and Disposal Practices in Estuaries, Carl C. Cable, HY1:Jan 69:103:6343

Our Water Maze, Maurice K. Goddard, WQEF:Mar 70:107

Oxygen Transfer from Falling Water Droplets, Charles E. Carver, Jr., SA2:Apr 69:239:6504

Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB:Aug 73:21

Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65:8984

Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5:May 73:729:9730

Problems of Water Quality Management in Western River Basin Systems, Arthur F. Pillsbury, IR73:Aug 73:729

Proposed Environmental Quality Policy for ASCE, Ralph Stone, CWFE:Mar 71:373

Rationale of Standards for Use of Reclaimed Water, Herbert B. Foster, Jr. and William F. Jopling, SA3:June 69:503:6609

Real-Time Computer Control of Urban Runoff, James J. Anderson, HY1:Jan 70:153:7028

Recommendations for Environmental Engineering Education, Wesley O. Pipes, EE2:Apr 74:243:10459

Register of Selective Withdrawal Works in United States, Task Committee on Outlet Works, Committee on Hydraulic Structures, Ronald E. Nece, Chmn., HY9:Sept 70:1841:7533

Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241

Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956

Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607:10048

Role of Water Delivery System in Water Quality, Gaylord V. Skogerboe, IRS:Sept 72:101

Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12:Dec 72:2087:9426

Simulation of Water Quality in Tarawera River, J. Christopher Rutherford and Michael J. O'Sullivan, EE2:Apr 74:369:10461

Some Applications of Drainage Experience, William O. Watson, IRS:Sept 72:1

Some Mythological Aspects of Water Pollution Control, Walter A. Lyon, WQEF:Mar 70:75

Sources and Transport of Bacterial Indicators in Rural Streams, Samuel H. Kunkle, IAWM:72:105

Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209

Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962

Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660

Temperature Prediction in Stratified Reservoirs, Wayne C. Huber, Donald R.F. Harleman and Patrick J. Ryan, HY4:Apr 72:645:8839

Thermal Hydraulic Study: Arkansas Cooling Reservoir, Herbert S. Riesbol, James B. Anderson, Fred H. Wend and Harlan B. Holmes, PO1:Jan 71:93:7811

Two-Dimensional Surface Warm Jets, Robert C. Y. Koh, HY6:June 71:819:8186

Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73:133:9783

Waste Management In The Marine Environment, Clarence M. Tarzwell, CEO-II:70:477

Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044

Wastewater Reclamation and Export at South Tahoe, Russell L. Culp and H. E. Moyer, CE:June 69:38

Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178

Water Quality and Environmental Quality, Thomas L. Kimball, WQEF:Mar 70:51

Water Quality Considerations In Estuarine Development, Thomas P. Gallagher and John E. Hagan, III, CEO-II:70:229

Water Quality Control in California, B. Norman Hume, SA4:Aug 70:873:7448

Water Quality: Cost Benefits of Irreducibles, Ralph Stone, William F. Garber and Helen Friedland, SA3:June 70:691:7336

Water-Quality Management in Irrigation Systems, Gerald T. Orlob and Philip C. Woods, IR2:June 67:49:5280

Water Quality Management - Power Station Coal Ashes, Dennis W. Weeter, James E. Niece and Anthony M. DiGioia, Jr., EPCE:Aug 74:633

Water Quality Models Using the Box-Jenkins Method, Peter M. Huck and Grahame J. Farquhar, EE3:June 74:733:10629

Water Quality Monitoring For Pollution Control On The Continental Shelf, T. A. Wastler and Harold Berkson, CEO-II:70:221

Water Quality Simulation Model, George R. Grantham, John C. Schaake, Jr. and Edwin E. Pyatt, SA5:Oct 71:569:8429

Water Quality Standards and the Citizen, Mrs. Donald E. Clusen, WQEF:Mar 70:37

Water Quality Standards--Salvation or Curse, James B. Coulter, WQEF:Mar 70:97

Wellton-Mohawk Drainage and the Mexican Salt Problem, Clifford C. Tabor, IR73:Aug 73:285

Water Quality Control

Corps of Engineers Plans Regional Water Quality Program, William Whipple, Jr., CE:Mar 72:37

Economics of Water Quality and Wastewater Control, Fred E. Case, CWFE:Mar 71:115

Financing Water Quality Control on a National Basis, Morris H. Klegerman, CWFE:Mar 71:131

Statewide Water Quality Control Management, Kerry W. Mulligan, CWFE:Mar 71:105

Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660

Valuation of Flow Augmentation Releases, Buford J. Carter, Jr., James P. Heaney and Edwin E. Pyatt, SA3:June 71:345:8203

Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667

Water Quality Standards

Consumers Water Quality Index, Thomas M. Walski and Frank L. Parker, EE3:June 74:593:10601

Water Quality and Effluent Standards of Hawaii, Gordon L. Dugan, Reginald H.F. Young and L. Stephen Lau, HY9:Sept 74:1245:10824

Water Rates

Industrial Waste Charges, James A. Seagraves, EE6:Dec 73:873:10203

Proposed Water Resources Trust Fund, Morris H. Klegerman, CE:Apr 73:52

Water Recirculation

Recirculation in Shallow Bays and Rivers, R. K. Price, Robert A. Dalrymple and Robert G. Dean, 12CEC:71:1813

Water Reclamation

Treatment of Refinery Waste by Physicochemical Processes, Ju-Chang Huang and Michael G. Hardie, SA4:Aug 71:467:8318

Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204

Water Requirements

Consumptive Use of Water and Irrigation Water Requirements, Marvin E. Jensen, Chmn., CUWI:74, 215pp.

Water Requirements of Rostered Irrigation Schemes, Patrick D. Fitzgerald and Gregory C. Arnold, IR1: Mar 72:91:8767

Water Resources

Administration of Dam Safety in California in 1973, Gordon W. Dukleth, IMROD:Sept 73:127
Aerial Color Analyses of Water Quality, Kenneth R. Piech and J. E. Walker, SU2:Nov 71:185:8507
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71: 321:8545
Agriculture and the City, Warren A. Hall, IR73:Aug 73:1
Algorithm For Adjusting Stream Stage Records, William C. Mills and Willard M. Snyder, IR1:Mar 71:51:7955
Alternative Water Resource Systems in the Lower Mekong, Kanchit Chaemsaithong, Lucien Duckstein and Chester C. Kisiel, HY3:Mar 74:461: 10430
Approaches and Viewpoints of State Natural Water Resources Agencies, William Whipple, Jr., UWRM: 71:100
An Approach To Operation Of A Regional Primary Water Control Sysrem, William V. Storch and Robert L. Hamrick, SEA:70:45
Aqueduct Route Optimization by Dynamic Programming, Nathan Buras and Ze'ev Schweig, HY5:Sept 69:1615:6779
Artificial Ground-Water Recharge by Means of Wells in Israel, Yoav Harpaz, HY12:Dec 71:1947:8579
Artificial Recharge in Water Resources Management, Marvin J. Dvoracek, IR2:June 71:219:8185
Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566
Basic Needs of Urban Water Management on the Firing Line, Robert C. McWhinnie, UWRM:71:8
Beginning of Quantitative Hydrology, Asit K. Biswas, HY5:Sept 68:1299:6123
Biological Implications Of Water Resource Management, Taylor R. Alexander, SEA:70:1
Bureau of Reclamation Examination Program, Paul K. Bock, IMROD:Sept 73:50
Dsc, California Water: A Study in Resource Management, William Whipple, Jr., CE:Nov 72:115
Can Engineering Forecasters Effect Water Law?, George W. Reid, E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329
Chance-Constrained Model of System of Reservoirs, Guy L. Curry, James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246
Citizen Participation: Here to Stay, Gene E. Willeke, CE:Jan 74:78
Civil Engineering Education and the Bureau of Reclamation, Gilbert G. Stamm, CEE:Feb 74:1-347
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72: 585:9413
Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025
Competition for Recreation Water in California, Amalio Gomez and Dale A. Crane, IR3:Sept 68: 295:6109
Comprehensive River Basin Planning, Wallace R. Christensen, PL1:Oct 68:11:6136
Concepts and Utilities of Ecologic Model, Carl W. Chen, SA5:Oct 70:1085:7602
Concepts for Ground-Water Regulatory District, Dale Twachtmann, EI1:Jan 74:69:10272
Coordinated Land and Water Planning Proposed to Avoid Killing of Projects, Charles F. Luce, CE:May 71:75
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72: 869:9434
Current Program of Seismic Safety, Elmer W. Stroppini, IMROD:Sept 73:786
Daily Streamflow Simulation, Kip Payne, W. R. Neuman and Kenneth D. Kerri, HY4:July 69:1163: 6665
Deep-Well Disposal of Wastes, William R. Walker and Ronald C. Stewart, SA5:Oct 68:945:6171
Dynamic Programming for Conjunction Water Use, Gert Aron and Verne H. Scott, HY5:May 71:705: 8145
EBMUD's Programs for Inspection and Remedial Treatment of Old Dams, Walter F. Anton, IMROD:Sept 73:829
Economic Evaluation of Water Deficiencies, Alan D. Kleinman, IRS:Sept 72:415
Economic Planning for Staged Development, Kenneth E. Sorensen and Robert D. Jackson, HY5: Sept 68:1231:6114
Economics of Water Resources Planning, by L. Douglas James and Robert L. Lee (Book Review), Richard J. McDonald, CE:June 71:32
Edward Hyatt (Orville) Underground Power Plant, Alfred R. Golze, PO2:Mar 71:419:7950
Effect Of Cultural Practices On Water Resources, Cortland E. Young, SEA:70:77
Environmental Aspects of River Basin Planning, Maynard M. Hufschmidt, HY6:Nov 67:323:5605
The Environmental Challenge--Values in Conflict, James H. Wright, PP1:Oct 71:17:8471
Environmental Impact of the New Jersey Turnpike Toms River Extension, John C. Goodrich and Byron H. Willis, UT73:May 73:253
Environmental Issues, Effects, and Solutions, Lynn A. Brown, IR73:Aug 73:511
Evaluation of Agricultural Drainage in Water Quality Management, T. Clark Lyons, Dwight P. Russell and Roger G. Fry, IR73:Aug 73:529
Evaluation of Effects of Land-Use Changes on Streamflow, David R. Dawdy and James M. Bergmann, IR73:Aug 73:619
An Evaluation of the Bachelor of Technology Program, C. Kenneth Myers, CEE:Feb 74:1-239
Evaluation System for Multiple Objective Planning, Charles F. Lemon, IRS:Sept 72:371
Exotic Uses Of Aquifers (and their impact on groundwater basin management), Raphael G. Kazmann, SEA:70:295
Federal View of Interagency River Basin Planning, Burnham H. Dodge, WW3:Aug 68:305:6067
Field Manager for Water Resource Utilization, Burke Giles, HY10:Oct 74:1411:10893
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE: Sept 72:54
Flood Control Release Optimization Using Methods from Calculus, William C. Hughes, HY5:May 71: 691:8117
Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105
Forecasting Water Demands and Systems Capabilities, Wyndham J. Roberts, Sandor C. Csallany and Neil G. Towery, SA6:Dec 70:1349: 7745
Function of the International Joint Commission, Eugene W. Weber, PO2:Nov 68:177:6236
Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73: 421:10229
General Hydrologic System Model, Ven Te Chow and V. C. Kulandaiswamy, HY6:June 71:791:8176
Groundwater Control by Pumping, James A. Robertson, Jr., Frank J. Dragoun and Dale W. Sall, IR73:Aug 73:179
Ground Water Management-A Progress Report, Jack J. Coe, SEA:70:105
Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment, Thomas A.L. Paton, PWS:Nov 72:81
Dsc, History of Water Resource Development, Gene M. Gressley, CE:Mar 72:61
Hudson River as a Water Source for New York City, Robert D. Mitchell, SA3:June 68:447:5967
Hydrogeology of Florida's Largest Citrus Grove, William E. Wilson, IRS:Sept 72:293
Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, HY11:Nov 71:1835:8523

Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205

Impacts of Rural to Urban Water Use, Jean O. Williams, IR73:Aug 73:85

Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615

Infrared Imaging for Water Resources Studies, James I. Taylor and Ronald W. Stingelin, HY1:Jan 69: 175:6331

Institutional Aspects of Water Management, Edwin S. Haycock, OIDS:72:265

Integrated Management of Metropolitan Water Services, Edwin L. Vopelak, UWRM:71:36

Integrating the Planning and Management of Metropolitan Water Resources into a Regional Context, Alexander B. Bigler, UWRM:71:81

Integrating Water Quality and Water Resources Planning, Joseph A. Krivak, HY9:Sept 74:1257: 10829

Irrigation Engineering and National Goals, William S. Butcher, OIDS:72:13

Issues in Water Resources Impact Assessment, Leonard Ortolano, HY1:Jan 74:173:10292

Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080

Legal Problems in Water Pollution Control, Dwight F. Metzler, HY1:Jan 74:221:10260

Managing Multiriver System—Past, Present, and Future, R. Gene Pollan, HY10:Oct 74:1429:10873

Managing System Operations—Central Valley Project, Dan M. Fults and Lawrence F. Hancock, HY10:Oct 74:1419:10886

The Metropolis Runs Dry, Richard A. Hogarty, SEA: 70:329

The Metropolis Runs Dry, Richard A. Hogarty, IR4: Dec 71:559:8563

Monitoring Water Pollution by Remote Sensing, James P. Scherz, SU2:Nov 71:307:8550

Multilevel Outlet Works at Four Existing Reservoirs, Garry H. Austin, Donald A. Gray and Donald G. Swain, HY6:Nov 69:1793:6877

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827: 9304

The Municipal Engineer's Role in Planning Water Resources Development, Mercel J. Shelton, PP1: Dec 67:37:5668

Nader's Raiders Versus California Water Project, James H. Krieger, PP1:Jan 73:39:9490

National System for Water Data, Russel H. Langford and George H. Davis, HY7:July 70:1391:7392

National Water Commission Report, Charles F. Luce, Ted Schad and Victor Koelzer, CE:May 73:70

Nature of and Need for Interdisciplinary Attacks on Problems of Urban Water Management, J. Ernest Flack, UWRM:71:106

Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078

Operational Experience with Snow Pillows in California, Glenn H. Castel, IR1:Mar 69:105:6444

Opportunities for Water Salvage, Lloyd E. Myers, CE:Jan 70:41

Opportunities for Watershed Management in Wyoming, Paul A. Rechard, IR73:Aug 73:423

Optimal Allocation of Stochastic Water Supply, Warren A. Hall and David T. Howell, IR4:Dec 70: 395:7718

Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73: 923:10200

Optimality of Heuristic Sequencing Technique, Thomas L. Morin, TN: HY8:Aug 74:1195:10748

Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972

Optimum Design of Complex Water Resource Projects, David Stephenson, HY6:June 70:1229: 7320

Optimum Groundwater Level Decline in Eastern Washington, Walter R. Butcher, IRS:Sept 72:291

Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176

Organizational Alternatives in Consolidating Irrigation Systems, Evan Vlachos, OIDS:72:317

Orographic Cloud Seeding as a Water Resource, Charles F. Chappell, IRS:Sept 72:389

An Overview of Contemporary Approaches and Concepts in Metropolitan Water Management, George F. Mangan, Jr., UWRM:71:75

The Perimeter Canal—A New Approach to Discharge Urban Water into a Coastal Mangrove Area, Charles H. King, Jr. and Gerald M. Ward, IR73:Aug 73:99

Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173

Policies for Efficient Regional Water Management, W. Charles Howe and Blair T. Bower, IR4:Dec 70: 387:7721

Politics Of Water Resources Development, Daniel M. Ogden, Jr., SEA:70:353

Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787

Power Generation Under IJC Regulation, George T. Berry, PO2:Nov 68:217:6257

Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3: Mar 72:503:8769

Principles and Procedures in Flood Plain Management, James E. Goddard and John W. Weathers, HY4:July 69:1321:6696

Principles and Standards for Water and Land Resources Planning, W. Don Maughn, PP3:July 72: 311:9059

Principles and Standards -- Water and Land Planning, Gary D. Cobb, IRS:Sept 72:399

Private Enterprise Aids Public Recreation, Douglas W. Barr, IAWM:72:399

Probability Distribution of Annual Droughts, Eratakulan S. Joseph, IR4:Dec 70:461:7727

Problems of Water Quality Management in Western River Basin Systems, Arthur F. Pillsbury, IR73:Aug 73:729

Proposed Water Resources Trust Fund, Morris H. Klegerman, CE:Apr 73:52

Public Participation in Urban Water Planning, Thomas C. Ferrara, Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585

Public Works Capacity Expansion Based on Unit Cost, Carter H. Harrison, Jr., HY11:Nov 74:1707: 10955

Putting Water Resources Research into Practice, Fred S. Singer, CE:June 70:47

Quality Related Costs of Regional Water Users, Michael B. Sonnen, HY10:Oct 73:1849:10076

Regional Water Resources Planning: A State View, Guy J. Kelnhofer, Jr., UWRM:71:111

Rehabilitation of Dams: Retrospect and Prospect, Gilbert G. Stamm, IMROD:Sept 73:4

Research Needs in Sanitary Engineering, Jack M. Betz, Chmn., SA2:Apr 72:299:8833

Reservoir System Design Optimization, Richard J. Butsch, HY1:Jan 70:125:7023

River Basin Management, An Interstate Approach, James F. Wright, WW3:Aug 68:287:6058

River-Basin Planning for Private Development, Leonard A. Lovell, Clarence N. Freeman and Alvin S. Goodman, PO1:May 68:67:5946

River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806

Role and Function of Systems Analysis, John C. Schaake, Jr., UWRM:71:72

Safety of Dams - Bureau of Reclamation, Donald A. Gray, HY2:Feb 74:267:10354

Salinity Status of Marl Soils in Southern Florida, E. H. Stewart, R. R. Alberts and P. G. Orth, SEA:70: 63

Satisfying Water Needs in Southern California, Jack J. Coe, IR2:June 71:233:8193

Seacoast Dam Separates Saltwater and Fresh, Chris C. Ziogas, CE:Feb 74:53

Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732

Sediment Transportation Mechanics: Nature of Sedimentation Problems, by Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY2:Mar 65:4260
Sequential Deterministic Optimization in Reservoir Operation, Thomas E. Croley, II, HY3:Mar 74:443:10426
Sequential Stochastic Optimization for Reservoir System, Thomas E. Croley, II, HY1:Jan 74:201:10263
Shihmen Embankment Dam in Taiwan, China, Shen C. Yuan, Paul E. Bartlett and Chuan C. Feng, IR2:June 67:1:5257
Simulation Model for Flow Augmentation Costs, Armando I. Perez, John C. Schaake, Jr. and Edwin E. Pyatt, HY1:Jan 70:131:7026
Social and Ecological Implications of Proposals for Out-of-Basin River Diversions, Bernard B. Berger, PP1:Oct 71:95:8481
Social and Institutional Aspects of Irrigation and Drainage, Asit K. Biswas, OIDS:72:261
Some Challenge Posed by Traditional Institutions and Practices, Gene E. Willeke, UWRM:71:61
Some Factors Affecting Control of Flow in a Large Canal System, Johannes J. DeVries and Jaime Amorocho, IR73:Aug 73:329
Some Urban Water Resources Mangement Dimensions, D. Earl Jones, Jr., UWRM:71:14
State Viewpoint on River Basin Planning, Nicholas L. Barbarossa, WW2:May 68:217:5955
Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658
Strategies of American Water Management, by Gilbert F. White (Book Review), Eugene W. Weber, CE:Feb 70:30
Streamflow Depletion Resulting from Upstream Surface-Water Impoundment, Stanley P. Sauer, IR73:Aug 73:593
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
Surface Water Resources Planning in Hudson Basin, Gerald T. McCarthy and Nicholas L. Barbarossa, HY2:Mar 68:375:5841
Survey of Programs for Water-Surface Profiles, Bill S. Eichert, HY2:Feb 70:547:7098
Surveys and Mapping in Water Resource Development, Kerry F. Pitts, SU1:May 71:69:8088
Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625
Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659
Theory and Practice of Public Participation in Planning, Gene E. Willeke, IR1:Mar 74:75:10391
Timing and Sizing of Complex Water Resource Systems, Leonard Becker and William Wen-Gong Yeh, HY10:Oct 74:1457:10883
Tools for Water-Resource Study, Julius H. Dawes, IR4:Dec 70:403:7720
Trickle Irrigation Design Requirements for Row Crops, Dale A. Bucks, IR73:Aug 73:673
Unique Role of Water in a Developing Economy, Clark N. Crain and David W. Greenman, IR1:Mar 69:79:6439
Unsteady Drawdown in Well Groups, Raymond J. Krizek, Gabor M. Karadi and D. Babu Rao, HY10:Oct 71:1625:8436
Urban Water Management Needs in Runoff and Flood Regulation, James R. Wallace, UWRM:71:32
Urban Water Planning and Management: A Conceptual Framework and Problem Focus, John R. Sheaffer, UWRM:71:5
Urban Water Resources—Some Planning Fundamentals, Lawrence S. Costello, UP1:Mar 74:57:10413
Urban Water Resources - The Politics of Management, Francis B Francois. PP3:July 73:365:9879
Use of Systems Analysis in Water Resources Planning, William K. Johnson, HY9:Sept 72:1543:9174
Water Accounting at Pumping Station S-5A in Florida, Claiborne F. Galliher, IR4:Dec 69:517:6970
Water Management Aspects of Consolidating Irrigation Systems, Gaylord V. Skogerboe, OIDS:72:293
Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996
Water Quality Considerations In Estuarine Development, Thomas P. Gallagher and John E. Hagan, III, CEO-II:70:229
Water-Quality Management in Irrigation Systems, Gerald T. Orlob and Philip C. Woods, IR2:June 67:49:5280
Water Resources and Regional Land-Use Plan, James C. Ringenoldus, SA6:Dec 70:1311:7735
Water Resources as an Element of Urban Planning, Matthew L. Rockwell, UP1:Aug 68:1:6056
Water Resources Education in Civil Engineering, Vincent T. Ricca and Robert C. Stiefel, CEE:Feb 74:1-96
Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040
Water Resources Management, Langdon W. Owen, SEA:70:157
Water Resources Management In South Florida, Charles L. Nowlin, SEA:70:27
Water Resources Planning For Pascagoula Basin, Mason B. Oldham, Jr. and John W. Rushing, WW1:Feb 70:65:7060
Water Resources Planning in Appalachia, Stephen S. Fuller, UP2:Oct 70:123:7599
Water Resources Planning Model, John F. Brotchie, TN: HY10:Oct 71:1801:8413
Water Reuse Systems Analysis, A. Bruce Bishop and David W. Hendricks, SA1:Feb 71:41:7898
The Water Studies Program at Stanford University, Perry L. McCarty, CEE:Feb 74:1-193
Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176
Weather Modification for Use in High Plains, Richard A. Schleusener and J. R. Miller, Jr., IR3:Sept 74:339:10816
Weather Modification for Use in the High Plains, Richard A. Schleusener and J. R. Miller, Jr., IR73:Aug 73:147
Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9:Sept 72:1515:9187
What Should Civil Engineering Education Accomplish?, Elmer K. Timby, CEE:Feb 74:1-302
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054

Water Resources Development

California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78
Dam Foundation Problems and Solutions, B. I. Maduke, EFFD:Mar 74:69
Field Manager for Water Resource Utilization, Burke Giles, HY10:Oct 74:1411:10893
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85
Dsc, History of Water Resource Development, Gene M. Gressley, CE:Mar 72:61
Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662
Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088
Optimal Conjunctive Use Model for Indus Basin, Mohammad T. Chaudhry, John W. Labadie, Warren A. Hall and Maurice L. Albertson, HY5:May 74:667:10550
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
Unusual Foundation Developments and Corrective Action Taken, Doyle L. Christensen, EFFD:Mar 74:343

Water Resources Management

Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85
Institutional Aspects of Water Management, Edwin S. Haycock, OIDS:72:265

Metagame Analysis of Water Resources Conflicts, Keith W. Hipel, R. K. Ragade and Tharakkal E. Unny, HY10:Oct 74:1437:10861
Simulation Techniques for Water Project Analyses, Milton L. Holloway and Lial F. Tischler, IR3:Sept 74:211:10784
Social and Institutional Aspects of Irrigation and Drainage, Asit K. Biswas, OIDS:72:261

Water Reuse
Current Perspectives in Disinfection, Bernard B. Berger, NSCD:71:1
Opportunities for Water Salvage, Lloyd E. Myers, CE:Jan 70:41
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205:9971
"Recycling Treated Municipal Wastewater and Sludge Through Forest and Cropland" ed. by William E. Sopper and Louis T. Kardos (Book Review), Walter A. Lyon and Marilyn Hewitt, CE:May 74:30
Status of Bureau of Reclamation Efforts in Weather Modification, Evaporation Suppression, and Water Salvage, Patrick A. Hurley, IAWM:72:43
The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178
Wastewater Reuse--A Supplemental Supply, John D. Parkhurst, SA3:June 70:653:7318
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204
Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040
Water Reuse Systems Analysis, A. Bruce Bishop and David W. Hendricks, SA1:Feb 71:41:7898

Water Rights
General Statement of Principles to be Included in State Water Rights Laws, Floyd A. Bishop, Chmn., IR2:June 72:317:8996
Importance of Flow Measurement in Water Control, W. Roger Walker, IRS:Sept 72:131
Industrial Waste Charges, James A. Seagraves, EE6:Dec 73:873:10203
Managing Canal System for Water Quality Control, Thomas L. Huntzinger and James H. Taylor, IRS:Sept 72:171
Public Irrigation Systems In Puerto Rico, Garcia Rafael Reyes, IR1:Mar 71:109:7953
State Water Rights Laws, William R. Walker, IR4:Dec 73:449:10217

Water Sampling
Ground Water Quality, West Jefferson County, Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417

Watershed Management
A Case Study of Water Supply & Flood Plain Zoning, William R. Trautman, IAWM:72:193
Dieldrin in Runoff from Treated Watersheds, J. H. Caro, W. M. Edwards and B. L. Glass, IAWM:72:141
Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73:793:9748
Effects of Forest Management on Stream Temperature, George W. Brown, IAWM:72:93
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85
Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, IAWM:72:165
Impact on Fish and Wildlife from Land-Use Practice, John C. Peters, IAWM:72:387
Influence of Soils on Water Yields, Julius H. Dawes, IAWM:72:85
Land Capability Classes As Hydrologic Response Units in Watersheds, Charles B. England, IAWM:72:53
Let's Take a Look at Channel Improvement, Frank P. Erichsen, IAWM:72:261
Lower Cost Water Harvesting Methods, Keith R. Cooley, Lloyd E. Myers and Gary W. Frasier, IAWM:72:27
Mass-Wasting Processes in Watershed Management, Raymond M. Rice and J. S. Krammes, IAWM:72:231
Opportunities for Watershed Management in Wyoming, Paul A. Rechard, IR73:Aug 73:423
Private Enterprise Aids Public Recreation, Douglas W. Barr, IAWM:72:399
Responsibility in Weather Modification Operation, Merlin C. Williams and Richard A. Schleusener, IR1:Mar 70:61:7171
Role of Bedrock in Watershed Management, Walter F. Megahan, IR73:Aug 73:449
Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020
Social and Ecological Implications of Proposals for Out-of-Basin River Diversions, Bernard B. Berger, PP1:Oct 71:95:8481
Status of Bureau of Reclamation Efforts in Weather Modification, Evaporation Suppression, and Water Salvage, Patrick A. Hurley, IAWM:72:43
Status of Weather Modification in Watershed Management, Merlin C. Williams, IR4:Dec 71:585:8608
Stripmining and Watershed Management, W. David Striffler, IRS:Sept 72:79
Suppression of Evaporation Losses from Snowpacks, James L. Smith and Howard G. Halverson, IAWM:72:5
The U.S. Water Quality Program: Desperate Need for Planning Research, Eugene E. Dallaire, CE:Sept 71:63
The Varying Source Area Of Streamflow From Upland Basins, John D. Hewlett and Wade L. Nutter, IAWM:72:65
The Watershed Approach for Fish and Wildlife, L. Dean Marriage, IAWM:72:369
Watershed Vegetation Management-A Wildlife Habitat Opportunity, D. J. Neff and B. Bristow, IAWM:72:347

Watersheds
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie Ling Chiang, HYB:Aug 73:371
Computer Modelling of a Coniferous Forest Watershed, George B. Shih, Richard H. Hawkins and Melvin D. Chambers, IRS:Sept 72:433
Evaluation of Phosphorus Dynamics in a Watershed, Thomas H. Cahill, Patricia Imperato and Francis H. Verhoff, EE2:Apr 74:439:10445
Factors Affecting Floods from Small amd Large Watersheds, Yoseph Bar-Kochba and Andrew L. Simon, IRS:Sept 72:87
Flood Inflation, Donald L. Milliken, IMROD:Sept 73:399
Formulation of Mathematical Watershed-Flow Model, Cheng-lung Chen and Ven Te Chow, EM3:June 71:809:8199
Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, IAWM:72:165
Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73:519:10188
Influence of Summer Use of a Mountain Watershed on Bacterial Water Quality, Quentin D. Skinner, John C. Adams and Paul A. Rechard, IRS:Sept 72:57
Land Capability Classes As Hydrologic Response Units in Watersheds, Charles B. England, IAWM:72:53
Let's Take a Look at Channel Improvement, Frank P. Erichsen, IAWM:72:261
A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171:9034
Rapid Creek Watershed, Donald A. Thorson, HYB:Aug 73:449
River Erosion Due to Channel Relocation, Lawrence W. Yearke, CE:Aug 71:39

Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12: Dec 72:2087:9426
Simulation of Water Yield from Devegetated Basins, George Fleming, IR2:June 71:249:8175
Social and Ecological Implications of Proposals for Out-of-Basin River Diversions, Bernard B. Berger, PP1:Oct 71:95:8481
Status of Pilot Watershed Studies in Arizona, Harry E. Brown, IR1:Mar 70:11:7129
Stripmining and Watershed Management, W. David Striffler, IRS:Sept 72:79
Surface Runoff Hydrograph Equation, Vulli L. Gupta and Syed A. Moin, HY10:Oct 74:1353:10880
Thermal Capacity of Our Nation's Waterways, D. E. Peterson, John C. Sonnichsen, Jr., S. L. Engstrom and P. M. Schrotke, PO1:May 73:193:9736
University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129
Watershed as Semiinfinite Storage Reservoir, Vit Klemes, IR4:Dec 73:477:10213

Watersheds (Basins)

Opportunities for Watershed Management in Wyoming, Paul A. Rechard, IR73:Aug 73:423
Watershed Behavior After Forest Fire in Washington, J. D. Helvey, IR73:Aug 73:403

Water Shortage

Status of Pilot Watershed Studies in Arizona, Harry E. Brown, IR1:Mar 70:11:7129

Water Storage

Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241
Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941
Wet-Wells Volumes for Multipump Systems, Gunther Goldschmidt, IR3:Sept 74:371:10830

Water Supply

Aerial Color Analyses of Water Quality, Kenneth R. Piech and J. E. Walker, SU2:Nov 71:185:8507
Approaches and Viewpoints of State Natural Water Resources Agencies, William Whipple, Jr., UWRM: 71:100
Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409
Automation in California's State Water Project, Robin R. Reynolds and Welby R. Madsen, PL3: Nov 67:15:5574
Basic Needs of Urban Water Management on the Firing Line, Robert C. McWhinnie, UWRM:71:8
A Case Study of Water Supply & Flood Plain Zoning, William R. Trautman, IAWM:72:193
Changing the Consumptive Use on the Gila River Flood Plain, Southeastern Arizona, Ronald L. Hanson, Frank P. Kipple and Richard C. Culler, IRS:Sept 72:309
Computer Controls for Aqueduct Operation, Alfred R. Golze, PL1:Oct 68:19:6145
Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, Miroslaw Gorczyca, SA6:Dec 72:987:9458
Creating Hydrophobic Soil for Water Harvesting, Lloyd E. Myers and Gary W. Frasier, IR1:Mar 69: 43:6436
Damage Assessment of Household Water Quality, Dennis P. Tihansky, EE4:Aug 74:905:10700
Design of Underground Pumping Chamber at Lake Mead, Robert R. Rising and Gayle A. Ericson, URC:72:381
Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367: 10227
Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100
Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72: 433:9219
Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73: 143:9670
Economic Derivation of Reservoir Operating Rules, L. Douglas James, HY5:Sept 68:1217:6111
Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856
Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336
Estimation and Use of Water Production Functions in Crops, Dan Yaron, IR2:June 71:291:8208
Evaporation Reduction with Floating Granular Materials, Lloyd E. Myers and Gary W. Frasier, IR4:Dec 70:425:7741
Evaporation Reduction with Reflective Covers, Keith R. Cooley and Lloyd E. Myers, IR3:Sept 73:353: 9982
Exotic Uses Of Aquifers (and their impact on groundwater basin management), Raphael G. Kazmann, SEA:70:295
Feasibility of Water Export, Edward Kuiper, HY4: July 68:873:6024
Federal Drinking Water Standards - Past, Present, and Future, James H. McDermott, EE4:Aug 73: 469:9924
Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Hudson River as a Water Source for New York City, Robert D. Mitchell, SA3:June 68:447:5967
Hydrologic Concepts in Suburban Planning, Ed L. Reed, IRS:Sept 72:185
Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3: July 72:373:9029
Intake System Assessment for Central Columbia River, David L. Schreiber, C. Dale Becker, James J. Fuquay and Ronald A. Chitwood, PO2:Dec 74:139: 11001
Integrated Management of Metropolitan Water Services, Edwin L. Vopelak, UWRM:71:36
Least-Cost Design of Water Distribution Systems, Thawat Watanatada, HY9:Sept 73:1497:9974
Lower Cost Water Harvesting Methods, Keith R. Cooley, Lloyd E. Myers and Gary W. Frasier, IAWM:72:27
Managing System Operations—Central Valley Project, Dan M. Fults and Lawrence F. Hancock, HY10:Oct 74:1419:10886
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
The Metropolis Runs Dry, Richard A. Hogarty, SEA: 70:329
Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131
Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF: Aug 72:371
Opportunities for Watershed Management in Wyoming, Paul A. Rechard, IR73:Aug 73:423
Optimal Allocation of Stochastic Water Supply, Warren A. Hall and David T. Howell, IR4:Dec 70: 395:7718
Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73: 1777:10088
An Overview of Contemporary Approaches and Concepts in Metropolitan Water Management, George F. Mangan, Jr., UWRM:71:75
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
Public Irrigation Systems In Puerto Rico, Garcia Rafael Reyes, IR1:Mar 71:109:7953

Raw Water Transmission System for Springfield, Mass., Walter B. Sinnott and Sheldon S.W. Yuan, TE3:Aug 71:459:8312
Regional Water Resources Planning: A State View, Guy J. Kelnhofer, Jr., UWRM:71:111
Satisfying Water Needs in Southern California, Jack J. Coe, IR2:June 71:233:8193
Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, GT5:May 74:523:10553
Sixty Years of Rock Tunneling in Chicago, Milton Pikarsky, CO2:Nov 71:189:8504
Slant Drilled Lake Pump Station, Wilbur F. Gaughan and Robert B. Mitchell, EPCE:Aug 74:391
Sprayed Asphalt Pavements for Water Harvesting, Lloyd E. Myers, Gary W. Frasier and John R. Griggs, IR3:Sept 67:79:5413
Subsurface Environment—Private Property or Public Domain?, William R. Walker and William E. Cox, HY11:Nov 74:1699:10958
Surface Water Resources Planning in Hudson Basin, Gerald T. McCarthy and Nicholas L. Barbarossa, HY2:Mar 68:375:5841
Tocks Island Lake Project, Gerald T. McCarthy, EE4:Aug 74:803:10718
The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
Urban Water Planning and Management: A Conceptual Framework and Problem Focus, John R. Sheaffer, UWRM:71:5
Vegetation Management To Increase Water Yield, Herbert C. Storey and Irvin C. Reigner, IAWM:72:271
Wastewater Reuse--A Supplemental Supply, John D. Parkhurst, SA3:June 70:653:7318
Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204
Water Resources Management, Langdon W. Owen, SEA:70:157
A Water Spreading and Well Field Water Supply System, Burt A. Babcock, IRS:Sept 72:225
Water-System Expansion Spurs New Tunnel Technology, Maynard M. Anderson, CE:Sept 70:69

Water Supply Forecasting
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074

Water Supply Systems
Automation of an Existing Irrigation System - Part I, Richard G. Ericsen, IR73:Aug 73:369
Current Water Systems Automation Research and Development in the Bureau of Reclamation, Charles A. Calhoun, IR73:Aug 73:353
Irrigation Engineering and National Goals, William S. Butcher, OIDS:72:13

Water Surface
Photogrammetry and Hydraulic Surfaces, Wolfgang Faig, SU2:Nov 72:145:9337
Wind Stress on a Coastal Water Surface, S. A. Hsu, CE13:72:III-2531

Water Surface Profiles
Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468

Water Table
Drawdown in Compressible Unconfined Aquifer, Tatiana D. Streltsova, HY11:Nov 74:1601:10950
Moving Water Tables in Tile-Drained Soils, Nazar M. Awan and Terence O'Donnell, IR3:Sept 72:459:9167
New Concepts in Suburban Drainage in Florida, Kenneth A. Bryant, Jr. and James N. Krider, IR73:Aug 73:471
Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244
Steady Drainage of Layered Soils: II, Nomographs, Sadik Toksoz and Don Kirkham, IR1:Mar 71:19:7986
Steady Drainage of Layered Soils: I, Theory, Sadik Toksoz and Don Kirkham, IR1:Mar 71:1:7985
Water-Table Fluctuation in Response to Recharge, Miguel A. Marino, IR2:June 74:117:10582

Water Tanks
Design of Cylindrical Concrete Water Tanks, Harvey C. Olander, ST5:May 70:947:7303
Surface Oscillations in a Water Tank Caused by a Submerged Jet, Juan B. Font, Omar Azpurua and Flora Aranguren, 12CEC:71:2243

Water Temperature
The Dissipation of Excess Heat from Water Systems, Harvey E. Jobson, PO1:May 73:089:9702
Heated Discharge from Flume into Tank, Heinz Stefan and Frank R. Schiebe, SA6:Dec 70:1415:7762
Impoundment and Temperature Effect on Waste Assimilation, Peter A. Krenkel, Edward L. Thackston and Frank L. Parker, SA1:Feb 69:37:6406

Water Towers
Esthetics in Water Towers, John P. Klus, CE:Sept 73:84

Water Transfer
Design of Rock Caverns for Hydraulic Projects, Mircea S. Vasilescu, C. P. Benziger and Robert W. Kwiatkowski, URC:72:21
Underground Rock Structures Challenge the Engineer, Thomas A. Lang, URC:72:1

Water Transportation
Innovations in Barge Transportation on Columbia River, W. E. Torget and Rowena Funston, WW2:May 70:411:7290
Problems of Inland Waterway Lock Dimensions, John P. Davis, WW2:May 70:451:7295
"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495
Raw Water Transmission System for Springfield, Mass., Walter B. Sinnott and Sheldon S.W. Yuan, TE3:Aug 71:459:8312

Water Treatment
Agglomerate Size Changes in Coagulation, Robert K. Ham and Russell F. Christman, SA3:June 69:481:6605
Ammonia Nitrogen Losses from Streams, Frank E. Stratton, SA6:Dec 68:1085:6282
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
Automatic Water and Waste Treatment Plants in Operation, Ralph Stone and E. T. Conrad, CE:May 70:37
Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, NSCD:71:61
Boundary Layer Separation Concept of Settling Tanks, Yishu Chiu, EE6:Dec 74:1213:11019
Chlorine Disinfection of Low Temperature Waters, Leroy C. Reid, Jr. and Dale A. Carlson, EE2:Apr 74:339:10443
Control of Bacterial Growths in Rapid Sand Filters, John T. O'Connor and Kalyanpur Y. Baliga, SA6:Dec 70:1377:7767
Corps of Engineers Plans Regional Water Quality Program, William Whipple, Jr., CE:Mar 72:37
Current Perspectives in Disinfection, Bernard B. Berger, NSCD:71:1
Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051
Design of U-Tube Aeration Systems, Richard E. Speece and Rudolph Orosco, SA3:June 70:715:7348
Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72:937:9401

Dialogue--Is Water Quality Enhancement Feasible?, Stanley E. Kappe, WQEF:Mar 70:3
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, NSCD:71:563
Dispersion Conduits, Thomas R. Camp and S. David Graber, SA1:Feb 68:31:5781
The Economic Aspects of Water Pollution Control, James J. Flannery, WQEF:Mar 70:57
Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722
Effect of Inorganics on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, NSCD:71:85
Emergency Water Disinfection Practice, Surinder K. Kapoor and John T. O'Connor, NSCD:71:179
Environmental Engineering Education -- An Employer's View, John E. Ball and John B. Malouf, CEE:Feb 74:1-426
Estuary Water Quality and Salmonella, Francis T. Brezenski, NSCD:71:481
Eutrophication: Causes, Consequences, Correctives (Book Review), William C. Ackerman, CE:Oct 70:20
An Evaluation of the Bachelor of Technology Program, C. Kenneth Myers, CEE:Feb 74:1-239
Federal Involvement Toward Clean Water for Our Future Environment, Eugene T. Jensen, CWFE:Mar 71:267
Filtration Through a Trimedia Filter, Alan E. Rimer, SA3:June 68:521:6014
Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, NSCD:71:453
Halogen Action on Bacteria, Viruses, and Protozoa, Cornelius W. Kruse, Yu-Chih Hsu, Annabel C. Griffiths and Richard Stringer, NSCD:71:113
Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
An Integrated Approach to the Problem of Viruses in Water, Gerald Berg, NSCD:71:339
Iron Removal Using Magnesium Oxide, John T. O'Connor and Barrett E. Benson, SA6:Dec 70:1335:7740
Lagoon Disposal Of Water Treatment Plant Wastes, Paul H. King, Walter S. Medding and Clifford W. Randall, TN: SA4:Aug 70:1031:7445
Linear Proportional Weirs, P. Sreenivasulu and R. Raghavendran, HY2:Feb 70:379:7062
Mathematical Evaluation of Gaseous and Dry Heat Treatments, C. R. Stumbo, NSCD:71:469
Natural Virus Inactivation Processes in Sea Water, Hillel I. Shuval, Andrew Thompson, Badri Fattal and Samuel Cymbalista, NSCD:71:429
A New Analytical Method for Ozone, R. F. Layton and Riley N. Kinman, NSCD:71:285
Nitrogen Losses from Alkaline Water Impoundments, Frank E. Stratton, SA2:Apr 69:223:6495
Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405
Oxygen Transfer from Falling Water Droplets, Charles E. Carver, Jr., SA2:Apr 69:239:6504
Planning for Clean Water in Terms of the Ecology and Social Environment, Percy H. McGauhey, CWFE:Mar 71:29
Prediction of Filter Performance, Kou-ying Hsiung and John L. Cleasby, SA6:Dec 68:1043:6270
Problems of Water Quality Management in Western River Basin Systems, Arthur F. Pillsbury, IR73:Aug 73:729
Removal of Nematodes by Rapid Sand Filtration, Irvine Wen-Tung Wei, Richard S. Engelbrecht and John H. Austin, SA1:Feb 69:1:6384
Research Needs in Evironmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, Kay H. Jones, Chmn., EE6:Dec 73:801:10198
Research Needs in Sanitary Engineering, Jack M. Betz, Chmn., SA2:Apr 72:299:8833
Role of Government in Public Works, Peter Corradi, PWS:Nov 72:187
Role of Government in Public Works Development, William Harris, Sir, PWS:Nov 72:167
Salmonellae in Fresh Water Pollution, Edwin E. Geldreich and Dale J. Van Donsel, NSCD:71:495
Scale-Up of Solid Bowl Centrifuge Performance, P. Aarne Vesilind, EE2:Apr 74:479:10474
Scaling Methods for Surface Aerators, George Maise, SA5:Oct 70:1079:7605
Status of Water Disinfection with Iodine, Riley N. Kinman, A. P. Black and W. C. Thomas, Jr., 4NSCD:71:11
Stochastic Analysis of Orthokinetic Flocculation, Perry W. Cockerham and David M. Himmelblau, EE2:Apr 74:279:10446
Theoretical Evaluation of Filter Modeling Experiments, Charles R. Ott and Richard H. Bogan, SA2:Apr 70:455:7233
Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73:17:9540
Theory of Multilayer Filtration, Shyam S. Mohanka, SA6:Dec 69:1079:6959
Theory of Sand Filtration, Arun K. Deb, SA3:June 69:399:6593
Thermal-Pollution Threat Draws Nearer, Eugene E. Dallaire, CE:Oct 70:67
Tracer Dispersion of High Rate Settling Tanks, Hassan M. El-Baroudi and David R. Fuller, EE3:June 73:347:9820
Transportation of Demineralized Water, Roy E. Dodson, PL1:Oct 68:127:6191
Treatment of Mine Drainage by Industry in Pennsylvania, Walter N. Heine and Ernest F. Giovannitti, SA3:June 70:743:7362
Tube Clarification Process, Operating Experiences, Gordon L. Culp, Kou-ying Hsiung and Walter R. Conley, SA5:Oct 69:829:6823
Turbulence and Flocculation, Yerachmiel Argaman and Warren J. Kaufman, SA2:Apr 70:223:7201
The U.S. Water Quality Program Part II, Eugene E. Dallaire, CE:Oct 71:81
U-Tube Aeration Operating Characteristics, Richard E. Speece, Jack L. Adams and Carolyn B. Wooldridge, SA3:June 69:563:6621
Versatility and Expandability of Pretreatment, Rolf Eliassen and D. F. Coburn, SA2:Apr 69:299:6514
Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178
Water Quality and Environmental Quality, Thomas L. Kimball, WQEF:Mar 70:51
Water Quality Standards--Salvation or Curse, James B. Coulter, WQEF:Mar 70:97
Water Supply and Waste Water Districts in Suburbia, Myron K. Nelson and R. L. Chandler, SA2:Apr 70:593:7247
Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103

Water Treatment Plants

Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469
Novel Construction Concept for Raw-Water Intake, Carlton T. Wise and Doyle D. Gillespie, CE:June 71:43
Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103

Water Tunnels

Diversion by Lake Piercing Snettisham Project, Thomas E. Munsey, CE:Oct 69:48
Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
Effects of Mechanical Cleaning Operations on Flow In Large Conduits, George F. Horowitz and Nelson N. Lee, HY5:May 71:677:8110
Fourth Dimension for Urban Environment, Kenneth E. Sorensen, UP1:Apr 71:91:8064
Hydraulic Design of Unlined Rock Tunnels, Carl J. Huval, HY4:July 69:1235:6679
Hydraulic Elements for USBR Standard Horseshoe Tunnel, Walter W. Hu, TN: TE4:Nov 73:973:10117
Hydraulic Properties of Small Unlined Rock Tunnels, Seppo Priha, HY4:July 69:1181:6672

Mossyrock Project River-Diversion and Care of Fish, Earl J. Beck, PO1:Jan 71:1:7800
Quality Control and Application - New Melones Project, Leland A. Case, SUSS:July 73:235
Shotcrete for Structural Rehabilitation, James P. Crawford, SUSS:July 73:367
Sizing of Pumped Storage Conduits, Raymond K. Sullivan, Jr., PO3:July 71:667:8252
Submarine Floats in Steel Pipe Liner, Merrill R. Cotten, CE:Dec 70:28
Surge Studies for Portage Mountain Tailrace System, Kenneth C. Wilson, PO1:Mar 69:1:6432
Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
Use of Remote Controlled Spraying Nozzle, Claes Alberts, SUSS:July 73:65
Use of Shotcrete for Tunnelling in Difficult Grounds, Pericle Quadrio Curzio, Glauco Barazzoni, Fiorenzo Nobili and Alessio Anselmi, SUSS:July 73:79
Water-System Expansion Spurs New Tunnel Technology, Maynard M. Anderson, CE:Sept 70:69

Water Tunnels (Conveyance)
Angat Project - The Leak in Tunnel Two, Wallace A. Waldorf, PO4:Dec 71:799:8571
Geomechanical Instrumentation in Mexico Tunnels, Derek F. Berry, URC:72:51
Sixty Years of Rock Tunneling in Chicago, Milton Pikarsky, CO2:Nov 71:189:8504
Survey of Tunnel Portal Construction at U.S. Army Corps of Engineers Projects, Curtis L. Craig and Lawrence R. Brockman, URC:72:167
Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628

Water Use
Agriculture and the City, Warren A. Hall, IR73:Aug 73:1
Current Design Capacity Procedure Used by SCS, Harlan G. Collins, IRS:Sept 72:339
Effect of Agricultural Use on Water Quality for Downstream Use for Irrigation, Jerald E. Christiansen, IR73:Aug 73:753
Estimation of Phreatophyte Water Use, William C. Hughes, IRS:Sept 72:191
Evaluation of Agricultural Drainage in Water Quality Management, T. Clark Lyons, Dwight P. Russell and Roger G. Fry, IR73:Aug 73:529
Exotic Uses Of Aquifers (and their impact on groundwater basin management), Raphael G. Kazmann, SEA:70:295
Field Manager for Water Resource Utilization, Burke Giles, HY10:Oct 74:1411:10893
Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73:421:10229
Impacts of Rural to Urban Water Use, Jean O. Williams, IR73:Aug 73:85
Lower Cost Water Harvesting Methods, Keith R. Cooley, Lloyd E. Myers and Gary W. Frasier, IAWM:72:27
National Water Commission Report, Charles F. Luce, Ted Schad and Victor Koelzer, CE:May 73:70
Needed - A New Outlook for Irrigation, Ellis L. Armstrong, OIDS:72:1
New Planning Horizons for the Bureau of Reclamation, Warren Fairchild, OIDS:72:19
The Perimeter Canal—A New Approach to Discharge Urban Water into a Coastal Mangrove Area, Charles H. King, Jr. and Gerald M. Ward, IR73:Aug 73:99
Role of the Public in Weather Modification, Adrian R. Chamberlain, IR73:Aug 73:171
Stress Day Index ... A New Concept for Irrigation Timing, Edward A. Hiler, Terry A. Howell and David G. Bordovsky, OIDS:72:579
Subsidence in United States Due to Ground-Water Overdraft—A Review, J. F. Poland, IR73:Aug 73:11
Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659
Trickle Irrigation Design Requirements for Row Crops, Dale A. Bucks, IR73:Aug 73:673
User's View of Weather Modification, Donald Christy, IR73:Aug 73:165
Water Quality: Cost Benefits of Irreducibles, Ralph Stone, William F. Garber and Helen Friedland, SA3:June 70:691:7336
Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040
Water Use and Production of Trickle Irrigated Onions, Theodore C. Patterson, IR73:Aug 73:317
Weather Modification for Use in the High Plains, Richard A. Schleusener and J. R. Miller, Jr., IR73:Aug 73:147

Water Users
Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787
Quality Related Costs of Regional Water Users, Michael B. Sonnen, HY10:Oct 73:1849:10076

Water Utilization
Allocating Water Among Alternative Uses, John E. Reynolds, IR1:Mar 71:85:7978
The Cheasapeake Bay Study And Hydraulic Model, John T. Starr, CEO-II:69:349

Water Vapor
Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70

Water Waves
Air Entrainment and Energy Dissipation in Breakers, Alfred Fuhrboter, 12CEC:71:391
The Analysis of Wave Records, D. Lee Harris, 12CEC:71:85
Analytical Approach on Wave Overtopping on Levees, Hiroyoshi Shi-igai and Tsugio Kono, 12CEC:71:563
Asymptotic Solutions of Resonances in Harbors With Basins, Chih-Lan Su, WW3:Aug 73:375:9954
Beach Changes and Wave Conditions, New Brunswick, S. Brian McCann and Edward A. Bryant, CE13:72:II-1293
Behavior of a Slender Body in Shallow-water Waves, Hsiang Wang and Li-San Hwang, CEC:71:1723
Bottom Boundary Shear Stresses on a Model Beach, P. G. Teleki and Melvin W. Anderson, 12CEC:71:269
Braking Wave Setup and Decay on Gentle Slopes, Li-San Hwang and David Divoky, 12CEC:71:377
Braking Wave Setup and Decay on Gentle Slopes, Li-San Hwang and David Divoky, 12CEC:71:377
Breakwater and Quay Wall by Horizontal Plates, Takeshi Ijima, Shigeo Ozaki, Yasuhiko Eguchi and Akira Kobayashi, 12CEC:71:1537
The Canadian Wave Climate Study - the Formative Year, Laurence Draper, 12CEC:71:1
Case History of Los Angeles-Long Beach Harbors, Robert W. Whalin, Claude E. Chatham, Donald L. Durham and Ellis B. Pickett, WAVES:Sept 74:466
Characteristics of Open Tube Wave Attenuation System, Efstathios L. Bourodimos and Arthur T. Ippen, WW4:Nov 68:465:6234
Characteristics of Shingle Beaches: The Solution to Some Practical Problems, A. M. Muir Wood, 12CEC:71:1059
Characteristics of Waves Broken by a Longshore Bar, E. Clark McNair and Robert M. Sorensen, 12CEC:71:415
Coastal Processes from Space Photography, Maynard M. Nichols, 12CEC:71:641
Coastal Sand Management System, Birchard M. Brush, CE13:72:II-1503
Comparison of Four Numerical Methods for Flood Routing, Roland K. Price, HY7:July 74:879:10659
Comparison of Pressure and Staff Wave Gage Records, D. Esteva and D. Lee Harris, 12CEC:71:101
Compilation of Ocean and Lake Wave Statistics, John Simpson Hale, 12CEC:71:217

Computation of Alongshore Energy and Littoral Transport, Theodor R. Mogel, Robert L. Street and Byrne Perry, 12CEC:71:899
Computation of Combined Refraction-Diffraction, J. C.W. Berkhoff, CE13:72:I-471
Computer Modelling of Diffraction of Wind Waves, Per Moller Bruun and Leon Emry Borgman, 12CEC:71:473
Consideration of Torsional Moment In Design of a Floating Structure, John C. Sonnichsen, Jr., WW1:Feb 69:35:6399
Consideration on Factors in Breakwater Model Tests, Yvon Ouellet, CE13:72:III-1809
Damage Functions for a Rubble-mound Breakwater Under the Effect of Swells, Juan B. Font, 12CEC:71:1567
Damping Effect of Floating Breakwater, Juichi Kato, Thoshifumi Noma, Yukio Uekita and Seiya Hagino, WW3:Aug 69:337:6733
Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218
Deformation of Tidal Waves in Shallow Estuaries, Calude Marche and Hans-Werner Partenscky, CE13:72:III-2395
The Development of Undular Bores with Friction, O. Hawaleshka and S. B. Savage, 12CEC:71:461
Dimensional Analysis - Spurious Correlation, Mehmet Selim Yalin and J. William Kamphuis, 12CEC:71:625
Directional Spectra From Wave-Gage Arrays, Narayana N. Panicker and Leon Emry Borgman, 12CEC:71:117
Discontinuous Composite Wave Absorber Studies, Anthony R. Fallon, CE13:72:III-1903
Distribution of Sediment Transport Across the Surf Zone, Edward B. Thornton, CE13:72:II-1049
Dune Erosion During Storm Conditions, T. Edelman, CE13:72:II-1305
Edge Waves and the Littoral Environment, Anthony J. Bowen, CE13:72:II-1313
Effect of Long Period Waves on Hydrographic Surveys, Orville T. Magoon and William O. Sarlin, 12CEC:71:2251
Effects of Nonuniform Wave Energy in the Littoral Zone, Victor Goldsmith and Joseph M. Colonell, 12CEC:71:767
Energy Losses under Wave Action, P. D. Treloar and A. Brebner, 12CEC:71:257
Energy Transfer Mechanism for Finite Amplitude Waves, Konstantin Zagustin, CE13:72:I-523
Equilibrium Conditions in Beach Wave Interactioe, Harihar Raman and John J. Earattupuzha, CE13:72:II-1237
Equilibrium Profiles of Model Beaches, Irvathur Vasudeva Nayak, 12CEC:71:1321
Equilibrium Range Spectra in Shoaling Water, Takeshi Ijima, Takahiko Matsuo and Kazutami Koga, 12CEC:71:137
Estimation of Wave Parameters at Marine Construction, Yu M. Krylov, S. S. Strekalov and V. F. Tsyploukhin, TN: WW4:Nov 71:793:8491
Estimation of Wave Statistics from Spectral Information, Yoshimi Goda, WAVES:Sept 74:320
Excitation of Waves Inside a Bottomless Harbor, Noboru Sakuma, Johannes Buhler and Robert L. Wiegel, CE13:72:III-2005
Experimental Studies on the Generation of Waves in Shallow Water, C. T. Kuo and Frederick L.W. Tang, 12CEC:71:179
Experiments of Wave Reflexion on Impermeable Slopes, Carlos de Campos Moraes, 12CEC:71:509
Extreme Wave Height Distributions Over Oceans, Herbert C.S. Thom, WW3:Aug 73:355:9939
Failure of Submarine Slopes Under Wave Action, R. J. Mitchell, K. K. Tsui and Dwight A. Sangrey, CE13:72:II-1515
Field Observations of Nearshore Current System, Kiyoshi Horikawa and Tamio Sasaki, CE13:72:I-635
Field Study of Surathkal Beach, P. Suryaprakasa Rao and P. Kassim, 12CEC:71:1365
Forces Due to Waves on Submerged Structures, John B. Herbich and George E. Shank, WW1:Feb 71:57:7870
Fourier Analysis of Transient Wave System, Edward K. Noda, WW4:Nov 71:663:8535
Geometric and Frictional Effects on Sudden Releases, Shih-Tun Su and Albert H. Barnes, HY11:Nov 70:2185:7650
A Gross Longshore Transport Rate Formula, Cyril J. Galvin, Jr., CE13:72:II-953
A Higher Order Theory for Symmetrical Gravity Waves, Peter L. Monkmeyer, 12CEC:71:543
Honolulu Reef Runway Dike, Robert Q. Palmer and James R. Walker, 12CEC:71:1629
Horizontal and Vertical Water Particle Velocities Induced by Waves, Yoshito Tsuchiya and Masataka Yamaguchi, CE13:72:I-555
Horizontal Water Particle Velocity of Finite Amplitude Waves, Yuichi Iwagaki and Tetsuo Sakai, 12CEC:71:309
Hydraulic Resistance of Artificial Concrete Blocks, Nobuo Shuto and Hiroshi Hashimoto, 12CEC:71:1587
Impulse Waves Generated by Landslides, J. William Kamphuis and R. J. Bowering, 12CEC:71:575
The Influence of Breaker Type on Riprap Stability, John P. Ahrens, 12CEC:71:1557
Interaction between Waves and Currents, Ivar G. Jonsson, Christian Skougaard and John D. Wang, 12CEC:71:489
Laboratory Tests of Longshore Transport, John C. Fairchild, 12CEC:71:867
Limiting Condition for Standing Wave Theories by Perturbation Method, Yoshito Tsuchiya and Masataka Yamaguchi, 12CEC:71:523
Littoral Transport and Energy Relationships, L. Bajorunas, 12CEC:71:787
Longshore Transport of Suspended Sediment, John C. Fairchild, CE13:72:II-1069
Macro-Turbulence From Wind Waves, Chin-Yuan Lee and Frank D. Masch, 12CEC:71:223
Mass Transport by Waves and Offshore Sand Bedforms, Trevor G. Carter, Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699
Mathematical and Hydraulic Models of Tidal Waves, Jurgen Sundermann and Hans Vollmers, CE13:72:III-2413
Mathematical Modeling of Large Objects in Shallow Water Waves and Uniform Current, Hsiang Wang, CE13:72:III-1783
Maximum Wave Height Probabilities for a Random Number of Random Intensity Storms, Leon Emry Borgman, 12CEC:71:53
Measurement of Bed Shear Stress Under Waves, H. P. Riedel, J. William Kamphuis and A. Brebner, CE13:72:I-587
The Measurement of Offshore Shingle Movement, Maurice J. Crickmore, C. B. Waters and W. A. Price, CE13:72:II-1005
Modeling of Structures Subjected to Wind Waves, Erich J. Plate and John H. Nath, WW4:Nov 69:491:6904
Movable-Bed Model Studies of Perched Beach Concept, C. E. Chatham, Jr., CE13:72:II-1197
Multidirectional Analysis of Monochromatic Wave Trains, Subrata K. Chakrabarti, TN: WW1:Feb 74:61:10312
New Designs for Beach Protection Structures, G. D. Khaskhachikh, G. A. Tsaturiyan and Ya. S. Shulgin, CE13:72:III-1675
New Equipment for Field Measurement of Water Surface Waves, Ake Sandstrom, WAVES:Sept 74:272
Ocean Wave Forces on a Subsurface Sphere, Robert A. Grace and Frederick M. Casciano, WW3:Aug 69:291:6722
Ocean Wave Simulation for Engineering Design, Leon Emry Borgman, WW4:Nov 69:557:6925
Offset Coastal Inlets, Miles O. Hayes, Victor Goldsmith and Carl H. Hobbs, III, 12CEC:71:1187
On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335
On the Formation of Spiral Beaches, Paul H. LeBlond, CE13:72:II-1331
On the Geometrically Similar Reproduction of Dunes in a Tidal Model with Movable Bed, Mehmet Selim Yalin, CE13:72:II-1143

On Wave Damping in Harbors, Charles E. Lee, WW4:Nov 68:489:6241
Periodic Permanent Roll Waves, Richard R. Brock, HY12:Dec 70:2565:7764
Periodic Waves Shoaling in Waters over Steeply Sloping Bottoms, Harihara Rama, 12CEC:71:363
Phase Dependent Roughness Control of Sand Movement, Douglas L. Inman and Edward B. Tunstall, CE13:72:II-1155
Piling-Up Behind Low and Submerged Permeable Breakwaters, Mordechai H. Diskin, Michael L. Vajda and Illan Amir, WW2:May 70:359:7283
Plunging Wave Pressures on a Semi-cylindrical Tube, Yuan Jen and Pang-Mou Lin, 12CEC:71:1469
Plunging Wave Pressures on Semicylindrical Tube, Yuan Jen and Pang-Mou Lin, WW3:Aug 71:567:8342
Prediction Curves for Waves near the Source of an Impulse, Robert L. Miller, 12CEC:71:609
Prediction of Wind Wave Heights, Henry T. Falvey, WW1:Feb 74:1:10324
Pressure of Waves Against Vertical Walls, M. E. Plakida, 12CEC:71:1451
Quadratic Loss and Scattering of Long Waves, Chiang C. Mei, Philip L-F. Liu and Arthur T. Ippen, WW3:Aug 74:217:10754
Reach of Waves to the Bed of the Constitutional Shelf, Richard Silvester and Geoffrey R. Mogridge, 12CEC:71:651
Recreational Surfing on Hawaiian Reefs, James R. Walker, Robert Q. Palmer and Joseph K. Kukea, CE13:72:III-2597
Reflection and Transmission for a Porous Structure, Hideo Kondo and Satoshi Toma, CE13:72:III-1847
Refraction of Continuous Ocean Wave Spectra, Thorbjorn Karlsson, WW4:Nov 69:437:6881
Refraction of Water Waves, Jurjen A. Battjes, WW4:Nov 68:437:6206
Regression Model of Wave Forces on Ocean Outfalls, Ronald E. Johnson, WW2:May 70:289:7275
Relations Between the Run-Up and Overtopping of Waves, Shoshichiro Nagai and Akira Takada, CE13:72:III-1975
Relative Validities of Water Wave Theories, Robert G. Dean, WW1:Feb 70:105:7092
Resonance in Harbors of Arbitrary Shape, Jiin-Jen Lee and Fredric Raichlen, 12CEC:71:2163
Rio Grande Bar - The Case History of a Lagoon Outlet into a Tideless Sea, V. F. Motta, 12CEC:71:1243
The Role of Surface Tension in Breaking Waves, Robert L. Miller, CE13:72:I-433
Run-Up Distributions of Waves Breaking on Slopes, Jurjen A. Battjes, WW1:Feb 71:91:7923
Scale Selection for Mobile Bed Wave Models, J. William Kamphuis, CE13:72:II-1173
Sea-Bed Configuration in Relation to Breakwater Stability, J. H. van Oorschot and A. Wevers, CE13:72:II-1543
Seasonal Bottom Changes - Bolinas Bay, California, Joe W. Johnson, 12CEC:71:1383
Sediment Transport by Wave Action, Hans Albert Einstein, CE13:72:II-933
Shallow Water Wave Characteristics, Winfried Siefert, CE13:72:I-329
The Shear Stress of Sea Breeze on a Swash Zone, Shih-Ang Hsu, 12CEC:71:243
Shoaling of Cnoidal Waves, I. A. Svendsen and O. Brink-Kjaer, CE13:72:I-365
Shoaling of Solitary Waves on Small Slopes, Frederick E. Camfield and Robert L. Street, WW1:Feb 69:1:6380
Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
Some Experiments with Sand-filled Flexible Tubes, Per Roed Jakobsen and Arne Hasle Nielsen, 12CEC:71:1513
Some Results of a Directional Wave Recording Station, J. Ploeg, CE13:72:I-131
Spectral Computations on Pressure Wave Gauge Records, Manuel Mendes de Carvalho, Fernando Silveira Ramos and Carlos de Campos Moraes, 12CEC:71:65
Spectral Response of Harbor Resonator Configurations, William James, 12CEC:71:2181
The Spiral Wavemaker for Littoral Drift Studies, Robert A. Dalrymple and Robert G. Dean, CE13:72:I-689
Steady Free Surface Flow Over Wavy Bed, Chiang C. Mei, EM6:Dec 69:1393:6967
Structural Damage from Tsunami at Hilo Hawaii, Lymon C. Reese and Hudson Matlock, HY4:July 68:961:6037
Supplement List of Needs in Research on Problems of Berthing and Mooring Ships, Basil W. Wilson, BMS:71:286
Surface Shear Waves, D. Howell Peregrine, HY9:Sept 74:1215:10809
Surge in the Southeast Basin, Long Beach Harbor, Calif., Basil W. Wilson, James A. Hendrickson and Yuan Jen, CE13:72:III-2617
Surge Studies for Portage Mountain Tailrace System, Kenneth C. Wilson, PO1:Mar 69:1:6432
Suspended Sediment and Longshore Sediment Transport Data Review, Madan M. Das, CE13:72:II-1027
Swell and Storm Characteristics from Coastal Wave Records, Warren C. Thompson, 12CEC:71:33
Systematic Study of Coastal Erosion and Defence Works in the Southwest Coast of India, N. S. Moni, CE13:72:II-1427
A System for Measuring Orbital Velocities in Waves, M. M. Kolpak and P. S. Eagelson, 12CEC:71:327
A Teleprocess System: The Spanish Offshore Network, L. Tejedor, WAVES:Sept 74:186
Tidal Waves in Schematic Estuaries, Hans Vollmers and Jurgen Sundermann, 12CEC:71:2133
Transport Littoral: Essais et Calculs, J. P. Epetit, CE13:72:II-971
Turbulent Currents in the Presence of Waves, Helge Lundgren, CE13:72:I-623
Turbulent Flow Over Moving Boundary, Konstantin Zagustin, En Yun Hsu and Robert L. Street, WW4:Nov 68:397:6210
An Underwater Survey System for Radionuclide-tagged Sediment Tracing, E. H. Acree, H. R. Brashear and F. N. Case, 12CEC:71:815
Use of Crenulate Shaped Bays to Stabilize Coasts, Richard Silvester and Siew-Koon Ho, CE13:72:II-1347
Use of Volcanoes for Determination of Direction of Littoral Drift, Per Moller Bruun and Gisli Viggosson, 12CEC:71:935
Variation of Longshore Current Across the Surf Zone, Edward B. Thornton, 12CEC:71:291
Velocity and Shear Stress in Wave Boundary Layers, P. G. Teleki, CE13:72:I-569
Velocity Fields in the Wave Breaker Zone, M. D. Adeyemo, 12CEC:71:435
Water Wave Pressure on Horizontal Plate, Hsiang Wang, HY10:Oct 70:1997:7629
Water Waves Generated by Landslides, Edward K. Noda, WW4:Nov 70:835:7699
Water Waves Over a Rectangular Channel Through a Reef, Nabil Hilaly, WW1:Feb 69:77:6409
Water Waves Produced by Ships, Robert M. Sorensen, WW2:May 73:245:9754
Wave Attenuation by Fluid Filled Bags, Harald D. Frederiksen, WW1:Feb 71:73:7874
Wave Data Analyses at GLERL, Paul C. Liu and Richard J. Robbins, WAVES:Sept 74:64
Wave-Induced Pressures in Beds of Sand, John F. A. Sleath, HY2:Feb 70:367:7057
Wave Investigations in Shallow Water, Winfried Siefert, 12CEC:71:151
Wave Prediction, Tim P. Barnett, PITO:74:11
Wave Reflection and Transmission for Pile Arrays, Brian J. Van Weele and John B. Herbich, CE13:72:III-1935
Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, Joseph M. Colonell, Stewart C. Farrell and Victor Goldsmith, HYB:Aug 73:131
Wave Refraction Near San Pedro Bay, California, Yuan Jen, WW3:Aug 69:379:6749
Wave Refraction Theory in a Convergence Zone, Robert W. Whalin, CE13:72:I-451

Waves Generated by a Piston-type Wavemaker, Ole Secher Madsen, 12CEC:71:589
Waves Generated by Horizontal Motion of a Wall, Madan M. Das and Robert L. Wiegel, WW1:Feb 72:49:8707
Waves Generated by Large Ships and Small Boats, Madan M. Das and Joe W. Johnson, 12CEC:71:2281
Waves Generated By Model Ship Hull, Robert M. Sorensen, WW4:Nov 69:513:6910
Waves Induced by Non-Permanent Paddle Movements, Carlos de Campos Moraes, Fernando Silveira Ramos and Manuel Mendes de Carvalho, CE13:72:I-707
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532
Wave Transformation in an Open Channel Transition, Efstathios L. Bourodimos and Arthur T. Ippen, HY5:Sept 68:1317:6128
Wave Transmission through Porous Structures, Ole Secher Madsen, WW3:Aug 74:169:10714
Weak Reflection of Water Waves by Bottom Obstacles, Chiang C. Mei, EM1:Feb 69:183:6401
Wind and Wave Climate Study in the North Sea, P. Kruseman, WAVES:Sept 74:1
Wind Stress on a Coastal Water Surface, S. A. Hsu, CE13:72:III-2531

Waterways

Anemometer Height in Froude Scaling of Wind Stress, Jin Wu, WW1:Feb 71:131:7873
Bank Stabilization in Susquehanna River Basin, James E. Crews, WW1:Feb 70:87:7061
Barge Transportation-Energizer of Production and Marketing, Braxton B. Carr, WW2:May 69:163:6559
Berth Planning by Evaluation of Congestion and Cost, Stavros N. Nicolaou, WW4:Nov 67:107:5577
Coastal Erosion in North Carolina, Leonard J. Langfelder, Donald B. Stafford and Michael Amein, WW2:May 70:531:7306
Collection of Oil Slicks, Ralph H. Cross, III and David P. Hoult, WW2:May 71:313:8122
Computer Model for a Lock Manifold System, James S. Windsor and Herman Vallee, WW2:May 69:149:6553
Computer Simulation of Unsteady Flows in Waterways, Robert A. Baltzer and Chintu Lai, HY4:July 68:1083:6048
Congestion in Marina Entrance Channels Due to Sailboats, Allen L. Ely and John M. Nichol, WW4:Nov 73:415:10137
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157
Control of Natural Chloride, Arkansas-Red Rivers, Myron W. DeGeer and Robert J. Hensley, WW4:Nov 71:631:8494
Current Design Capacity Procedure Used by the USBR, Albert E. Gibbs, IRS:Sept 72:331
Damage Function of Rubble-Mound Breakwaters, Jacobus van de Kreeke, WW3:Aug 69:345:6743
Design of Columbia River Pile Dikes, Robert O. Dodge, WW2:May 71:323:8142
Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559
Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
Effect on Waterway Depth and Alignments, Casimir J. Kray, WW2:May 70:497:7305
Estimation of Hurricane Surge Hydrographs, George Marinos and Jerry W. Woodward, WW2:May 68:189:5945
Fifth Order Stokes Wave Profiles, Curtis C. Ebbesmeyer, TN: WW3:Aug 74:264:10724
Flood-Control Facilities for Unique Flood Problems, Ralph F. Wong and Alfonso Robles, Jr., WW1:Feb 71:185:7894
Fluid Mechanics and Lock Design, John S. McNown, WW3:Aug 67:9:5365
Hurricane Surge Computations by Computer, Alan N. Sirkin, WW2:May 70:467:7299
Innovations in Barge Transportation on Columbia River, W. E. Torget and Rowena Funston, WW2:May 70:411:7290
Laboratory Simulation of Sea Waves, Joseph M. Colonell and Byrne Perry, WW2:May 68:159:5941
Laboratory Study of Degradation and Aggradation, Suryanarayana Bhamidipaty and Hsieh W. Shen, WW4:Nov 71:615:8493
Lake Michigan-Huron Stage-Frequency and Trend, R. Robinson Rowe, WW3:Aug 69:261:6716
Management Problems in Flood Plain Areas, Thomas M. Lee, WW3:Aug 72:357:9121
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
Modelling Tidal Flow From Harbors, Frederick E. Camfield, TN: WW4:Nov 70:879:7647
Nuclear Excavation of an Elat-Dead Sea Waterway, Aviva E. Gileadi and Wilson K. Talley, WW3:Aug 69:329:6730
Numerical Solution of Saint-Venant Equations, Theodor S. Strelkoff, HY1:Jan 70:223:7043
Ocean Wave Simulation for Engineering Design, Leon Emry Borgman, WW4:Nov 69:557:6925
On Acceleration of Barge Tows, Joseph S. DeSalvo, WW2:May 69:121:6545
One-Dimensional Equation of Open-Channel Flow, Theodor S. Strelkoff, HY3:May 69:861:6557
Open-Channel Simulation by Digital Computer, C. Samuel Martin and Frank G. De Fazio, HY6:Nov 69:2049:6911
Optimizing the Supply of Inland Water Transport, John F. Hoffmeister, III and Richard de Neufville, WW3:Aug 73:293:9926
Piling-Up Behind Low and Submerged Permeable Breakwaters, Mordechai H. Diskin, Michael L. Vajda and Illan Amir, WW2:May 70:359:7283
Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73:485:10179
Planning for Pleasure Boating on Regional Basis, Ellsworth J. Gullidge and Frank J. Urabeck, WW3:Aug 70:583:7453
Potamology Data Collection on Lower Mississippi River, Charles M. Elliott, WW3:Aug 70:601:7466
Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731
Preservation of Estuaries by Tidal Inlets, Mason G. Lockwood and Henry P. Carothers, WW4:Nov 67:133:5583
Rational Design Concept for Breasting Dolphins, Lymon C. Reese, Michael W. O'Neill and N. Radhakrishnan, WW2:May 70:433:7291
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
Refraction of Continuous Ocean Wave Spectra, Thorbjorn Karlsson, WW4:Nov 69:437:6881
Replacement-Lock and Dam No. 26: Condition of Existing Structure, Daniel P. Marshall, Jr., WW1:Feb 70:27:7097
Replacement-Lock and Dam No. 26: History, Objectives and Scope, Edwin R. Decker, WW1:Feb 70:1:7070
Replacement-Lock and Dam No. 26: Lock Capacity Procedure and Scope, Anson G. Eickhorst and DuWayne A. Koch, WW1:Feb 70:15:7094
Replacement-Lock and Dam No. 26: Plans Considered, Richard C. Armstrong, WW1:Feb 70:49:7071
Replacement-Lock and Dam No. 26: Projecting Waterborne Commerce-Inland Navigation, DuWayne A. Koch, WW1:Feb 70:9:7100
Resolution of Partial Clapotis, William James, TN: WW1:Feb 70:167:7049
River Bed Transport Related to Meander Migration Rates, Charles R. Neill, TN: WW4:Nov 71:783:8491
River Erosion Due to Channel Relocation, Lawrence W. Yearke, CE:Aug 71:39
Sector Gates in Bangkok Klong System, Fred C. Stepanich, WW4:Nov 71:721:8549
Self-Stabilizing Tendencies of Alluvial Channels, Johannes Gessler, WW2:May 70:235:7263

Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
Simulation of Waves by an Underwater Explosion, Jan Malan Jordaan, Jr., WW3:Aug 69:355:6745
Speed of Ships in Restricted Navigation Channels, R. Bryan Schofield, WW2:May 74:133:10539
Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358
Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341:9931
Surf Observations Along the United States' Coasts, John M. Darling, WW1:Feb 68:11:5786
Surge Problems in Canals with High-Lift Locks, Donald M. Liddell, WW2:Nov 69:467:6898
Tsunami Refraction Diagrams by Digital Computer, Garbis H. Keulegan and John Harrison, WW2:May 70:219:7261
Two-Dimensional Analysis of Backwater at Bridges, J. Thomas Franques and Dannial W. Yannitell, HY3:Mar 74:379:10403
Urban Planning and Development of River Cities, Arnold H. Vollmer, UP1:Mar 70:59:7144
Vessel Controllability in Restricted Waters, Edwin W. Eden, Jr., WW3:Aug 71:475:8310
Water Waves Generated by Landslides in Reservoirs, Robert L. Wiegel, Edward K. Noda, Edward M. Kuba, Dennis M. Dee and Gordon F. Tornberg, WW2:May 70:307:7279
Water Waves Produced by Ships, Robert M. Sorensen, WW2:May 73:245:9754
Waves Generated By Model Ship Hull, Robert M. Sorensen, WW4:Nov 69:513:6910
1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389

Waterways (Transportation)
The Arkansas River Project, Ronald A. Antonino, CE:Dec 69:44
Economics of Channels and Maneuvering Areas for Ships, Richard G. Waugh, Jr., WW4:Nov 71:671:8537
Evolution of Tidewater Port, Chester A. Peyronnin, Jr., WW2:May 70:387:7287
Geohydrologic Aspects of Cross-Florida Barge Canal, Glen L. Faulkner, SEA:70:307
History and Future of Ohio River Navigation, Carl H. Gaum, WW2:May 70:483:7304
Implication of Systems Analysis to Inland Navigation, DuWayne A. Koch, WW3:Aug 71:559:8302
Linear Proportional Weirs, P. Sreenivasulu and R. Raghavendran, HY2:Feb 70:379:7062
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866
Problems of Inland Waterway Lock Dimensions, John P. Davis, WW2:May 70:451:7295
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, John F. Kennedy, Cochmn. and George D Ashton, Cochmn., HY1:Jan 74:1:10281
River Metamorphosis, Stanley A. Schumm, HY1:Jan 69:255:6352
Simulation of Waterway Transport Systems, Joseph L. Carroll and Michael S. Bronzini, TE3:Aug 71:527:8311
Test of Air Cushion Vehicles in Public Transport, John L. Lambert, TE1:Feb 69:29:6391
Tonnage Capacity of Locks, John P. Davis, WW2:May 69:201:6577
Water Depths Required for Ship Navigation, Richard G. Waugh, Jr., WW3:Aug 71:455:8309
Water Waves Over a Rectangular Channel Through a Reef, Nabil Hilaly, WW1:Feb 69:77:6409

Waterways (Watercourses)
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
Flow and Bed Topography in Channel Bends, Frank Engelund, HY11:Nov 74:1631:10963
The Perimeter Canal—A New Approach to Discharge Urban Water into a Coastal Mangrove Area, Charles H. King, Jr. and Gerald M. Ward, IR73:Aug 73:99
Sediment Routing in Irrigation Canal Systems, Khalid Mahmood, IR1:Mar 74:49:10401

Waterways Experiment Station
Hydraulicians are Human Too, Hunter Rouse, HY5:May 72:875:8877

Waterway Transportation
Transportation Research Needs in Civil Engineering, Robert F. Baker, TE3:Aug 71:541:8343

Water Wells
Analog of Ground Water in East-Central New Mexico, H. Boyd Phillips and Harris R. McDonald, IR1:Mar 69:27:6435
Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546
Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176

Waterworks
Basin Tracer Curves Interpreted by Basic Analytics, A. Adler Hirsch, SA6:Dec 69:1031:6951
Federal Drinking Water Standards - Past, Present, and Future, James H. McDermott, EE4:Aug 73:469:9924
Hudson River as a Water Source for New York City, Robert D. Mitchell, SA3:June 68:447:5967
Multilevel Outlet Works at Four Existing Reservoirs, Garry H. Austin, Donald A. Gray and Donald G. Swain, HY6:Nov 69:1793:6877
Repair of Earthquake Damaged Underground Reservoir, Daniel J. Smith, Jr., CO3:Sept 74:449:10825
Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574

Water Yield
Economics of a Water-Yield Function for Sugar Cane, Howard C. Hogg, Jack R. Davidson and Jen-hu Chang, IR1:Mar 69:127:6448
Evaluating Watershed Management Alternativee, Harry E. Brown, IR1:Mar 71:93:7952
Hydrologic Response of Watersheds to Land Use Management, Louis M. Glymph, Heggie N. Holtan and Charles B. England, IR2:June 71:305:8174
Hydrologic Simulation Procedures As Applied To Vegetation Management, George Fleming, SEA:70:269
Hydrology and Erosion of Loessial Watersheds, Keith E. Saxton, Ralph G. Spomer and Larry A. Kramer, IAWM:72:165
Influence of Soils on Water Yields, Julius H. Dawes, IAWM:72:85
Streamflow Depletion Resulting from Upstream Surface-Water Impoundment, Stanley P. Sauer, IR73:Aug 73:593
Vegetation Management To Increase Water Yield, Herbert C. Storey and Irvin C. Reigner, IAWM:72:271
Watershed Behavior After Forest Fire in Washington, J. D. Helvey, IR73:Aug 73:403

Wave Action
Decay of Mass Oscillations in Rectangular Basins, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY1:Jan 74:119:10261
Frequency Response of a Shipborne Wave Recorder, H. M. van Aken and E. Bouws, WAVES:Sept 74:281
Measurement of Swash Profile and Orbital Motion on the Beach, Choule J. Sonu, Neal Pettigrew and Rodney G. Fredericks, WAVES:Sept 74:621
Quadratic Loss and Scattering of Long Waves, Chiang C. Mei, Philip L-F. Liu and Arthur T. Ippen, WW3:Aug 74:217:10754
Regular Wave Effects on Walls Made of Cylinders, G. D. Khaskhachikh and O. M. Vanchagov, WW4:Nov 71:735:8547

Response of Offshore Structures to Random Wave Forces, Anil K. Malhotra and Joseph Penzien, ST10:Oct 70:2155:7626

Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341: 9931

Wave Forces on Cylinders Near a Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, HYB:Aug 73:155

Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Wave Forces on Pipeline, Melville S. Priest, PITO: 74:23

Wave Transmission Through Permeable Breakwaters, Charles K. Sollitt and Ralph H. Cross, III, CE13: 72:III-1827

Wave Transmission through Porous Structures, Ole Secher Madsen, WW3:Aug 74:169:10714

Wave Dispersion

Design of Filter System for Rubble-Mound Structures, Theodore T. Lee, CE13:72:III-1917

Discontinuous Composite Wave Absorber Studies, Anthony R. Fallon, CE13:72:III-1903

Dissipation of Wave Energy due to Opposing Current, Toshio Iwasaki and Michio Sato, CE13:72: I-605

Energy Losses under Wave Action, P. D. Treloar and A. Brebner, 12CEC:71:257

Growth of Crenulate Shaped Bays to Equilibrium, Richard Silvester, WW2:May 70:275:7274

New Applications of Seismic Investigations to Engineering Problems, Phillip Romig, EFSE:Aug 74:144

Offset Coastal Inlets, Miles O. Hayes, Victor Goldsmith and Carl H. Hobbs, III, 12CEC:71:1187

Refraction of Continuous Ocean Wave Spectra, Thorbjorn Karlsson, WW4:Nov 69:437:6881

Scale Effects of Wave Transmission Through Permeable Structures, Richard C. Delmonte, CE13: 72:III-1867

Wave Attenuation by a Porous Walled Breakwater, Eugene P. Richey and Charles K. Sollitt, CEO-II: 70:903

Wave Diffraction by Rigid Foundations, Martin A. Salmon, TN: EM4:Aug 73:902:9898

Wave Energy Dissipation in Rockfill, John A. McCorquodale, CE13:72:III-1885

Wave Energy Transfer Mechanisms in Wind-Wave Tunnels, James B. Bole, WW4:Nov 74:325:10932

Wave Force on a Vessel Tied at Offshore Dolphins, Yoshimi Goda and Tomotsuka Yoshimura, CE13: 72:III-1723

Wave-Maze Floating Breakwater, H. Morgan Noble, CEO-II:70:929

Waves in a Harbor with Protruding Breakwaters, Chiang C. Mei and Ricardo V. Petroni, WW2:May 73:209:9700

Wave Drag

Dynamic Response Of Submerged Sphere, Herman Bomze, CEO-II:70:511

Effects Of Pile Roughness On Wave Forces On Piles, Robert M. Sorensen and William J. Burton, CE0-II: 70:441

Fluid-Dynamic Consideration Of Bottom Materials, Hormoz Pazwash and James M. Robertson, CEO-II:70:1135

Wave Energy

Airy Wave Theory and Breaker Height Prediction, Paul D. Komar and Michael K. Gaughan, CE13:72: I-405

Analysis of Nonlinear Random Wave Problems, Visvaldas J. Grauzinis, WAVES:Sept 74:74

An Analysis of Wave Forces on a Pile, Farouk M. Abdel-Aal, WAVES:Sept 74:867

Beach Changes and Wave Conditions, New Brunswick, S. Brian McCann and Edward A. Bryant, CE13:72:II-1293

Breakwater and Quay Wall by Horizontal Plates, Takeshi Ijima, Shigeo Ozaki, Yasuhiko Eguchi and Akira Kobayashi, 12CEC:71:1537

Calculated Sand Fills and Groin Systems, John Simpson Hale, CE13:72:II-1385

A Description of Three Wave Measuring Instruments, E. H. Bowler, WAVES:Sept 74:562

Design of Filter System for Rubble-Mound Structures, Theodore T. Lee, CE13:72:III-1917

Development of a Shallow-Water Wave Direction Gage, R. J. Hallermeier and William R. James, WAVES:Sept 74:696

Directional Spectra Model for Ocean Waves, Jared L. Black, WAVES:Sept 74:713

Discontinuous Composite Wave Absorber Studies, Anthony R. Fallon, CE13:72:III-1903

Dissipation of Wave Energy due to Opposing Current, Toshio Iwasaki and Michio Sato, CE13:72: I-605

Distribution of Sediment Transport Across the Surf Zone, Edward B. Thornton, CE13:72:II-1049

Energy Transfer Mechanism for Finite Amplitude Waves, Konstantin Zagustin, CE13:72:I-523

Experiments on Bed Form Generation by Wave Action, Geoffrey R. Mogridge and J. William Kamphuis, CE13:72:II-1123

Failure of Submarine Slopes Under Wave Action, R. J. Mitchell, K. K. Tsui and Dwight A. Sangrey, CE13:72:II-1515

Fifth Order Stokes Wave Profiles, Curtis C. Ebbesmeyer, TN: WW3:Aug 74:264:10724

The Influence of Breaker Type on Riprap Stability, John P. Ahrens, 12CEC:71:1557

Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495

Lifetime Wave Height Curve for Saint John Deep, Canada, J. Khanna and P. Andru, WAVES:Sept 74: 301

Measurement of Sediment Suspension in Combinations of Waves and Currents, J. Kirkegaard Jensen and Torben Sorensen, CE13:72:II-1097

Movable-Bed Model Studies of Perched Beach Concept, C. E. Chatham, Jr., CE13:72:II-1197

Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333

Nonlinear Wave Forces on Halfcylinder and Hemisphere, Subrata K. Chakrabarti and Robert A. Naftzger, WW3:Aug 74:189:10710

Observations of Waves in the North Pacific, Lawrence H. Larsen and Douglas R. Fenton, WAVES:Sept 74:197

Ocean Wave Measuring Instrumentation, Richard L. Ribe and Eugene M. Russin, WAVES:Sept 74:396

Physical Scales for Generation of Wind Waves, Jin Wu, WW2:May 72:163:8879

Plunging Wave Pressures on a Semi-cylindrical Tube, Yuan Jen and Pang-Mou Lin, 12CEC:71:1469

Plunging Wave Pressures on Semicylindrical Tube, Yuan Jen and Pang-Mou Lin, WW3:Aug 71:567: 8342

Pressure Upon Vertical Wall from Standing Waves, V. K. Shtencel, CE13:72:III-1649

Pressure Upon Vertical Walls from Overtopping Waves, M. E. Plakida, CE13:72:III-1661

A Probabilistic Approach to Determine Wave Forces on Ocean Pile Structures, G. I. Schueller and Haresh C. Shah, CE13:72:III-1683

Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708

Results from the CERC Wave Measurement Program, Edward F. Thompson, WAVES:Sept 74: 836

Scale Effects of Wave Transmission Through Permeable Structures, Richard C. Delmonte, CE13: 72:III-1867

Sea-Bed Configuration in Relation to Breakwater Stability, J. H. van Oorschot and A. Wevers, CE13: 72:II-1543

Sediment Transport by Wave Action, Hans Albert Einstein, CE13:72:II-933

Set-Up due to Irregular Waves, Jurjen A. Battjes, CE13:72:III-1992

Spectrum Analysis of Ocean Wave Records, Basil W. Wilson, Subrata K. Chakrabarti and Robert H. Snider, WAVES:Sept 74:87

Standing Waves in Front of a Sloping Dike, Nobuo Shuto, CE13:72:III-1629

Studies on the Navigation Buoy for Strong Tidal Currents and Large Waves, Shoshichiro Nagai, Kazuki Oda and Katsuhiko Kurata, CE13:72:III-1743
Study of Wave Climate in Nearshore Waters, Steven S. Pawka, WAVES:Sept 74:745
Wave Energy Dissipation in Rockfill, John A. McCorquodale, CE13:72:III-1885
Wave Energy Transfer Mechanisms in Wind-Wave Tunnels, James B. Bole, WW4:Nov 74:325:10932
Wave Force on a Platform with a Ribbed Bottom, Keith H. Denson and Melville S. Priest, CE13:72:III-1759
Wave Force on a Vessel Tied at Offshore Dolphins, Yoshimi Goda and Tomotsuka Yoshimura, CE13:72:III-1723
Wave Forces on Cylinders Near Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, WW4:Nov 74:345:10944
Wave Forces on Pipeline, Melville S. Priest, PITO:74:23
Wave Forces on Submerged Objects of Symmetry, Subrata K. Chakrabarti, WW2:May 73:147:9698
Wave Forces on Submerged Pipe Lines, Ernest F. Brater and Roger Wallace, CE13:72:III-1703
Wave Gages in Coastal Areas, J. J. Pilon, WAVES:Sept 74:585
Wave Groups in Ocean Swell, Warren C. Thompson and Raymond C. Smith, Jr., WAVES:Sept 74:338
Wave Refraction Theory in a Convergence Zone, Robert W. Whalin, CE13:72:I-451

Wave Equations
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73:2195:10233
Deformation of Tidal Waves in Shallow Estuaries, Calude Marche and Hans-Werner Partenscky, CE13:72:III-2395
Fifth Order Stokes Wave Profiles, Curtis C. Ebbesmeyer, TN: WW3:Aug 74:264:10724
Fluid Force on Accelerating Bodies, Wallis S. Hamilton, CE13:72:III-1767
Multidirectional Analysis of Monochromatic Wave Trains, Subrata K. Chakrabarti, TN: WW1:Feb 74:61:10312
Pressure Upon Vertical Wall from Standing Waves, V. K. Shtencel, CE13:72:III-1649
Pressure Upon Vertical Walls from Overtopping Waves, M. E. Plakida, CE13:72:III-1661
Probabilities For Highest Wave In Hurricane, Leon Emry Borgman, WW2:May 73:185:9705
Reflection and Transmission for a Porous Structure, Hideo Kondo and Satoshi Toma, CE13:72:III-1847
Scale Effects in Rubble-Mound Breakwaters, Kenneth W. Wilson and Ralph H. Cross, III, CE13:72:III-1873
Set-Up due to Irregular Waves, Jurjen A. Battjes, CE13:72:III-1992
Standing Waves in Front of a Sloping Dike, Nobuo Shuto, CE13:72:III-1629
Tsunami Generation and Propagation, Joseph L. Hammack, Jr. and Fredric Raichlen, CE13:72:III-2577
Wave Force on a Platform with a Ribbed Bottom, Keith H. Denson and Melville S. Priest, CE13:72:III-1759
Wave Force on a Vessel Tied at Offshore Dolphins, Yoshimi Goda and Tomotsuka Yoshimura, CE13:72:III-1723
Wave Forces on Submerged Objects of Symmetry, Subrata K. Chakrabarti, WW2:May 73:147:9698
Wave Prediction, Tim P. Barnett, PITO:74:11
Wave Runup on Vertical Cylinders, Cyril J. Galvin, Jr. and R. J. Hallermeier, CE13:72:III-1955

Wave Forecasting
Breaker Travel and Choice of Design Wave Height, Cyril J. Galvin, Jr., WW2:May 69:175:6569
Wave Forecasting for the West Coast of India, Jade Dattatri and P. S. Renukaradhya, 12CEC:71:203

Waveform Generators
Prediction Curves for Waves near the Source of an Impulse, Robert L. Miller, 12CEC:71:609

Waveforms
Tsunamis: Some Laboratory and Field Observations, Fredric Raichlen, 12CEC:71:2103

Wave Functions
Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673

Wave Generation
Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467
Experimental Studies on the Generation of Waves in Shallow Water, C. T. Kuo and Frederick L.W. Tang, 12CEC:71:179
Rip-Currents, Edward K. Noda, CE13:72:I-653
The Spiral Wavemaker for Littoral Drift Studies, Robert A. Dalrymple and Robert G. Dean, CE13:72:I-689
Tsunamis: Some Laboratory and Field Observations, Fredric Raichlen, 12CEC:71:2103
Waves Generated by a Piston-type Wavemaker, Ole Secher Madsen, 12CEC:71:589
Waves Generated by Large Ships and Small Boats, Madan M. Das and Joe W. Johnson, 12CEC:71:2281
Waves Induced by Non-Permanent Paddle Movements, Carlos de Campos Moraes, Fernando Silveira Ramos and Manuel Mendes de Carvalho, CE13:72:I-707
Wind-Generated Current and Phase Speed of Wind Waves, Omar H. Shemdin, CE13:72:I-537

Wave Height
Air Entrainment and Energy Dissipation in Breakers, Alfred Fuhrboter, 12CEC:71:391
Airy Wave Theory and Breaker Height Prediction, Paul D. Komar and Michael K. Gaughan, CE13:72:I-405
The Analysis of Wave Records, D. Lee Harris, 12CEC:71:85
An Approach to an Off-Shore Wave Climatology, J. A.W. McCulloch, CE13:72:I-145
Braking Wave Setup and Decay on Gentle Slopes, Li-San Hwang and David Divoky, 12CEC:71:377
Buoy for Recording Ocean Wave Height and Period, P. M. Blair, WAVES:Sept 74:254
Calibration of Wave Recorders by an Optical Method, John A. Charlton, WAVES:Sept 74:247
Case History of Los Angeles-Long Beach Harbors, Robert W. Whalin, Claude E. Chatham, Donald L. Durham and Ellis B. Pickett, WAVES:Sept 74:466
CERC Field Wave Gaging Program, Harold G. Peacock, WAVES:Sept 74:170
Comparison of Pressure and Staff Wave Gage Records, D. Esteva and D. Lee Harris, 12CEC:71:101
Computation of Alongshore Energy and Littoral Transport, Theodor R. Mogel, Robert L. Street and Byrne Perry, 12CEC:71:899
Consideration on Factors in Breakwater Model Tests, Yvon Ouellet, CE13:72:III-1809
Determining Nearshore Intergravity Wave Spectra, Joseph N. Suhayda, WAVES:Sept 74:54
Discontinuous Composite Wave Absorber Studies, Anthony R. Fallon, CE13:72:III-1903
A Discussion of Some Measured Wave Data, J. R. Wilson and W. F. Baird, CE13:72:I-113
Dissipation of Wave Energy due to Opposing Current, Toshio Iwasaki and Michio Sato, CE13:72:I-605
Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, Yvon Ouellet, WW1:Feb 72:1:8693
Energy Losses under Wave Action, P. D. Treloar and A. Brebner, 12CEC:71:257
Energy Transfer Mechanism for Finite Amplitude Waves, Konstantin Zagustin, CE13:72:I-523
Estimation of Wave Parameters at Marine Construction, Yu M. Krylov, S. S. Strekalov and V. F. Tsyploukhin, TN: WW4:Nov 71:793:8491

Estimation of Wave Statistics from Spectral Information, Yoshimi Goda, WAVES:Sept 74:320
Extreme Wave Conditions in British and Adjacent Waters, Laurence Draper, CE13:72:I-157
Extreme Wave Height Distributions Over Oceans, Herbert C.S. Thom, WW3:Aug 73:355:9939
Extreme Wave Statistics for Delaware Coastal Waters, Cheng Y. Yang, Mehmet Aziz Tayfun and George Chia-Chu Hsiao, WAVES:Sept 74:352
Fifth Order Stokes Wave Profiles, Curtis C. Ebbesmeyer, TN: WW3:Aug 74:264:10724
Floating Breakwater for Reservoir Marinas, Kenneth Chen and Robert L. Wiegel, 12CEC:71:1647
Frequency Response of a Shipborne Wave Recorder, H. M. van Aken and E. Bouws, WAVES:Sept 74:281
Gulf of Mexico Meteorology and Oceanography Data, E. G. Ward, WAVES:Sept 74:233
Height-Period Joint Probabilities in Hurricane Camille, Marshall D. Earle, Curtis C. Ebbesmeyer and Douglas J. Evans, TN: WW3:Aug 74:257:10724
A Higher Order Theory for Symmetrical Gravity Waves, Peter L. Monkmeyer, 12CEC:71:543
Impulse Waves Generated by Landslides, J. William Kamphuis and R. J. Bowering, 12CEC:71:575
Least Cost Gauge Buoy for Measurement and Analysis of Ocean Waves, Joseph R. Reynolds, Jr. and John F. Hoffman, WAVES:Sept 74:639
Lifetime Wave Height Curve for Saint John Deep, Canada, J. Khanna and P. Andru, WAVES:Sept 74:301
Macro-Turbulence From Wind Waves, Chin-Yuan Lee and Frank D. Masch, 12CEC:71:223
Maximum Breaker Height, J. Richard Weggel, WW4:Nov 72:529:9384
Maximum Breaker Height for Design, J. Richard Weggel, CE13:72:I-419
Measurement of Swash Profile and Orbital Motion on the Beach, Choule J. Sonu, Neal Pettigrew and Rodney G. Fredericks, WAVES:Sept 74:621
Multidirectional Analysis of Monochromatic Wave Trains, Subrata K. Chakrabarti, TN: WW1:Feb 74:61:10312
NDBO Wave Data - Current and Planned, Kenneth Edward Steele, Eduardo David Michelena and James Michael Hall, WAVES:Sept 74:417
Norwegian Wave Climate Study, O. G. Houmb, B. Pedersen and P. Steinbakke, WAVES:Sept 74:25
Observations of Waves in the North Pacific, Lawrence H. Larsen and Douglas R. Fenton, WAVES:Sept 74:197
On the Need of Wave Data for the Design of Rubble-Mound Breakwaters, Yvon Ouellet, WAVES:Sept 74:500
Prediction of Wind Wave Heights, Henry T. Falvey, WW1:Feb 74:1:10324
Pressure Upon Vertical Wall from Standing Waves, V. K. Shtencel, CE13:72:III-1649
Pressure Upon Vertical Walls from Overtopping Waves, M. E. Plakida, CE13:72:III-1661
Probability Distributions of Breaking Wave Heights, John H. Nath and Fred L. Ramsey, WAVES:Sept 74:379
Reflection and Transmission for a Porous Structure, Hideo Kondo and Satoshi Toma, CE13:72:III-1847
Refraction Computations for Practical Applications, Ove Skovgaard and Jens Aage Bertelsen, WAVES:Sept 74:761
Regular Wave Effects on Walls Made of Cylinders, G. D. Khaskhachikh and O. M. Vanchagov, WW4:Nov 71:735:8547
Relations Between the Run-Up and Overtopping of Waves, Shoshichiro Nagai and Akira Takada, CE13:72:III-1975
Resonance in Harbors of Arbitrary Shape, Jiin-Jen Lee and Fredric Raichlen, 12CEC:71:2163
Results from the CERC Wave Measurement Program, Edward F. Thompson, WAVES:Sept 74:836
The Role of Surface Tension in Breaking Waves, Robert L. Miller, CE13:72:I-433
Scale Effects of Wave Transmission Through Permeable Structures, Richard C. Delmonte, CE13:72:III-1867
Sea Observation in Coastal Areas: The Spanish Offshore Network, P. S. Bores, WAVES:Sept 74:13
Sea State Measurements from Pressure Records, Y. Y. Kim and L. H. Simon, WAVES:Sept 74:40
Set-Up due to Irregular Waves, Jurjen A. Battjes, CE13:72:III-1992
Shallow Water Wave Characteristics, Winfried Siefert, CE13:72:I-329
Shoaling of Cnoidal Waves, I. A. Svendsen and O. Brink-Kjaer, CE13:72:I-365
Shoaling of Finite Amplitude Long Waves on a Beach of Constant Slope, Yuichi Iwagaki and Tetsuo Sakai, CE13:72:I-347
Some Results of a Directional Wave Recording Station, J. Ploeg, CE13:72:I-131
Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4:Nov 72:443:9318
Statistical Prediction of Hurricane Storm Surge, Cheng Y. Yang, A. M. Parisi and William S. Gaither, 12CEC:71:2011
Tidal Inlet Current -- Ocean Wave Interaction, Lyndell Z. Hales and John B. Herbich, CE13:72:I-669
Transmission Line Wave Height Transducer, C. M.G. Zwarts, WAVES:Sept 74:605
Use of Volcanoes for Determination of Direction of Littoral Drift, Per Moller Bruun and Gisli Viggosson, 12CEC:71:935
Wave Climate in the Eastern Caribbean, Compton Deane, WAVES:Sept 74:214
Wave Conditions and Coastal Structures, W. P.A. Broeders and G. van Loenen, WAVES:Sept 74:543
Wave Data Analyses at GLERL, Paul C. Liu and Richard J. Robbins, WAVES:Sept 74:64
Wave Forces on Submerged Pipe Lines, Ernest F. Brater and Roger Wallace, CE13:72:III-1703
Wave Forecasting for the West Coast of India, Jade Dattatri and P. S. Renukaradhya, 12CEC:71:203
Wave Groups in Ocean Swell, Warren C. Thompson and Raymond C. Smith, Jr., WAVES:Sept 74:338
Wave Heights Expressed in Engineering Terminology, Homer I. Sargeant and Richard C. Timme, WAVES:Sept 74:433
Wave Investigations in Shallow Water, Winfried Siefert, 12CEC:71:151
Wave Measuring Instrumentation for Field Investigations on Breakers, Alfred Fuhrboter and Fritz Busching, WAVES:Sept 74:649
Wave Reflection and Transmission for Pile Arrays, Brian J. Van Weele and John B. Herbich, CE13:72:III-1935
Wave Runup on Vertical Cylinders, Cyril J. Galvin, Jr. and R. J. Hallermeier, CE13:72:III-1955
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532
Wave Statistics and Rubble Mound Structures, J. Ian Collins, WAVES:Sept 74:486
Wave Statistics for Surfzone Structures, John Simpson Hale, WAVES:Sept 74:453

Wavelength

Asymptotic Solutions of Resonances in Harbors With Basins, Chih-Lan Su, WW3:Aug 73:375:9954
Design Considerations on Wave Spectrum Estimation, Mehmet Aziz Tayfun, Cheng Y. Yang and George Chia-Chu Hsiao, WAVES:Sept 74:125
Regular Wave Effects on Walls Made of Cylinders, G. D. Khaskhachikh and O. M. Vanchagov, WW4:Nov 71:735:8547

Wavelengths

Determination of Kennedy's Parameter j for Dunes, Mehmet Selim Yalin, TN: HY8:Aug 73:1287:9910

Wavemeters

An Analysis of Wave Forces on a Pile, Farouk M. Abdel-Aal, WAVES:Sept 74:867
Analysis of Wave Records By Non-Spectral Methods, Orville T. Magoon, Radford S. Hall, II and Robert L. Mosher, CEO-II:70:1089

Buoy for Recording Ocean Wave Height and Period, P. M. Blair, WAVES:Sept 74:254
Calibration of Wave Recorders by an Optical Method, John A. Charlton, WAVES:Sept 74:247
CERC Field Wave Gaging Program, Harold G. Peacock, WAVES:Sept 74:170
Design Considerations on Wave Spectrum Estimation, Mehmet Aziz Tayfun, Cheng Y. Yang and George Chia-Chu Hsiao, WAVES:Sept 74:125
Development of a Shallow-Water Wave Direction Gage, R. J. Hallermeier and William R. James, WAVES:Sept 74:696
Frequency Response of a Shipborne Wave Recorder, H. M. van Aken and E. Bouws, WAVES:Sept 74:281
Holographic Method of Wave Spectrum Measurement, Takashi Ichiye and Yasuhiro Sugimori, WAVES:Sept 74:139
Lifetime Wave Height Curve for Saint John Deep, Canada, J. Khanna and P. Andru, WAVES:Sept 74:301
NDBO Wave Data - Current and Planned, Kenneth Edward Steele, Eduardo David Michelena and James Michael Hall, WAVES:Sept 74:417
New Equipment for Field Measurement of Water Surface Waves, Ake Sandstrom, WAVES:Sept 74:272
Norwegian Wave Climate Study, O. G. Houmb, B. Pedersen and P. Steinbakke, WAVES:Sept 74:25
Ocean Wave Measuring Instrumentation, Richard L. Ribe and Eugene M. Russin, WAVES:Sept 74:396
On the Need of Wave Data for the Design of Rubble-Mound Breakwaters, Yvon Ouellet, WAVES:Sept 74:500
Results from the CERC Wave Measurement Program, Edward F. Thompson, WAVES:Sept 74:836
Spectrum Analysis of Ocean Wave Records, Basil W. Wilson, Subrata K. Chakrabarti and Robert H. Snider, WAVES:Sept 74:87
A Teleprocess System: The Spanish Offshore Network, L. Tejedor, WAVES:Sept 74:186
Time Dependent Shear Stress Beneath a Shoaling Wave, John S. Fisher, Bruce Johnson and Michael E. McCormick, WAVES:Sept 74:799
Transmission Line Wave Height Transducer, C. M.G. Zwarts, WAVES:Sept 74:605
Wave Analysis System for the Breaker Zone, William L. Wood, WAVES:Sept 74:774
Wave Climate in the Eastern Caribbean, Compton Deane, WAVES:Sept 74:214
Wave Data Analyses at GLERL, Paul C. Liu and Richard J. Robbins, WAVES:Sept 74:64
Wave Gages in Coastal Areas, J. J. Pilon, WAVES:Sept 74:585
Wave Heights Expressed in Engineering Terminology, Homer I. Sargeant and Richard C. Timme, WAVES:Sept 74:433
Wave Measuring Instrumentation for Field Investigations on Breakers, Alfred Fuhrboter and Fritz Busching, WAVES:Sept 74:649
Wave Observations with Capacitance-Type Wave Gauge Array Installed on a Long Pier, Yoshito Tsuchiya and Masataka Yamaguchi, WAVES:Sept 74:689

Wave Period
Buoy for Recording Ocean Wave Height and Period, P. M. Blair, WAVES:Sept 74:254
Estimation of Wave Statistics from Spectral Information, Yoshimi Goda, WAVES:Sept 74:320
Extreme Wave Conditions in British and Adjacent Waters, Laurence Draper, CE13:72:I-157
Measurement of Swash Profile and Orbital Motion on the Beach, Choule J. Sonu, Neal Pettigrew and Rodney G. Fredericks, WAVES:Sept 74:621
NDBO Wave Data - Current and Planned, Kenneth Edward Steele, Eduardo David Michelena and James Michael Hall, WAVES:Sept 74:417
Period by the Wave Group Method, Warren C. Thompson, CE13:72:I-197
Regular Wave Effects on Walls Made of Cylinders, G. D. Khaskhachikh and O. M. Vanchagov, WW4:Nov 71:735:8547
Results from the CERC Wave Measurement Program, Edward F. Thompson, WAVES:Sept 74:836
Wave Groups in Ocean Swell, Warren C. Thompson and Raymond C. Smith, Jr., WAVES:Sept 74:338
Wave Statistics for Surfzone Structures, John Simpson Hale, WAVES:Sept 74:453

Wave Phases
Wave Train Direction Analysis, Subrata K. Chakrabarti, TN: WW4:Nov 71:787:8491

Wave Pile-Up
Experimental Studies on the Generation of Waves in Shallow Water, C. T. Kuo and Frederick L.W. Tang, 12CEC:71:179
Macro-Turbulence From Wind Waves, Chin-Yuan Lee and Frank D. Masch, 12CEC:71:223

Wave Propagation
Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649
Continuous Subsurface Profiling by Impulse Radar, Rexford M. Morey, EFSE:Aug 74:213
Directional Spectra Model for Ocean Waves, Jared L. Black, WAVES:Sept 74:713
Earthquake Wave Transmission Through Saturated Soil, Constantine N. Papadakis and Frank E. Richart, Jr., GT74:June 74:1
Experimental Study of Wave Transmission, Mohammed Sameh Nasser and John A. McCorquodale, WW4:Nov 74:279:10928
Finite Element Method Accuracy for Wave Propagation Problems, Roger L. Kuhlemeyer and John Lysmer, TN: SM5:May 73:421:9703
Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, EM3:June 74:599:10620
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan S. Sandler, EM6:Dec 73:1181:10210
Long Wave Propagation in Idealized Estuary, Donald W. Knight, HY7:July 73:993:9842
A Method of Numerical Analysis of Wave Propagation -- Application to Wave Diffraction and Refraction, Yoshiyuki Ito and Katsutoshi Tanimoto, CE13:72:I-503
Norwegian Wave Climate Study, O. G. Houmb, B. Pedersen and P. Steinbakke, WAVES:Sept 74:25
Oscillations in Harbors with Connected Basins, Jiin-Jen Lee and Fredric Raichlen, WW3:Aug 72:311:9094
Propagation of Waves in Dissipative Media, Burak Erman, Fuat Guzaltan and Attila Askar, TN: GT12:Dec 74:1321:10981
Series Solution to Problems in Elastodynamics, Wilfred W. Recker, EM4:Aug 71:1257:8328
Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., GT3:Mar 74:247:10410
Spherical Waves in Inelastic Materials, Jeremy Isenberg and Anjan K. Bhaumik, EM3:June 71:901:8207
Statistical Reliability of Computations Based on Wave Spectral Relations, Leon Emry Borgman, WAVES:Sept 74:362
Tsunami Generation and Propagation, Joseph L. Hammack, Jr. and Fredric Raichlen, CE13:72:III-2577
Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, Jamshid Ghaboussi and Edward L. Wilson, EM4:Aug 72:947:9152
Wave Statistics for Surfzone Structures, John Simpson Hale, WAVES:Sept 74:453
Wave Transmission through Porous Structures, Ole Secher Madsen, WW3:Aug 74:169:10714

Wave Recorders (Water Waves)
The Analysis of Wave Records, D. Lee Harris, 12CEC:71:85
Analysis of Wave Records By Non-Spectral Methods, Orville T. Magoon, Radford S. Hall, II and Robert L. Mosher, CEO-II:70:1089

Characteristics of Waves Broken by a Longshore Bar, E. Clark McNair and Robert M. Sorensen, 12CEC: 71:415
Comparison of Pressure and Staff Wave Gage Records, D. Esteva and D. Lee Harris, 12CEC:71: 101
Comparison of Pressure and Staff Wave Gage Records, D. Esteva and D. Lee Harris, 12CEC:71: 101
Compilation of Ocean and Lake Wave Statistics, John Simpson Hale, 12CEC:71:217
A Description of Three Wave Measuring Instruments, E. H. Bowler, WAVES:Sept 74:562
Directional Spectra From Wave-Gage Arrays, Narayana N. Panicker and Leon Emry Borgman, 12CEC:71:117
Horizontal and Vertical Water Particle Velocities Induced by Waves, Yoshito Tsuchiya and Masataka Yamaguchi, CE13:72:I-555
Horizontal Water Particle Velocity of Finite Amplitude Waves, Yuichi Iwagaki and Tetsuo Sakai, 12CEC:71:309
Least Cost Gauge Buoy for Measurement and Analysis of Ocean Waves, Joseph R. Reynolds, Jr. and John F. Hoffman, WAVES:Sept 74:639
Maximum Breaker Height for Design, J. Richard Weggel, CE13:72:I-419
Maximum Wave Height Probabilities for a Random Number of Random Intensity Storms, Leon Emry Borgman, 12CEC:71:53
Measurement of Bed Shear Stress Under Waves, H. P. Riedel, J. William Kamphuis and A. Brebner, CE13:72:I-587
Methodes de Mesure et Traitement de la Houle, Rene Bonnefille, CE13:72:I-315
NDBO Wave Data - Current and Planned, Kenneth Edward Steele, Eduardo David Michelena and James Michael Hall, WAVES:Sept 74:417
Ocean Wave Measuring Instrumentation, Richard L. Ribe and Eugene M. Russin, WAVES:Sept 74:396
Period by the Wave Group Method, Warren C. Thompson, CE13:72:I-1979
Probability Distributions of Breaking Wave Heights, John H. Nath and Fred L. Ramsey, WAVES:Sept 74:379
Results from the CERC Wave Measurement Program, Edward F. Thompson, WAVES:Sept 74: 836
Review of Techniques for Directional Wave Spectra, Narayana N. Panicker, WAVES:Sept 74:669
Rip-Currents, Edward K. Noda, CE13:72:I-653
Scale Effects of Wave Transmission Through Permeable Structures, Richard C. Delmonte, CE13: 72:III-1867
Shallow Water Wave Characteristics, Winfried Siefert, CE13:72:I-329
Spectral Computations on Pressure Wave Gauge Records, Manuel Mendes de Carvalho, Fernando Silveira Ramos and Carlos de Campos Moraes, 12CEC:71:65
Structure of Sea Wave Frequency Spectrum, S. S. Strekalov, V. F. Tsyploukhin and S. T. Massel, CE13:72:I-307
Swell and Storm Characteristics from Coastal Wave Records, Warren C. Thompson, 12CEC:71:33
A System for Measuring Orbital Velocities in Waves, M. M. Kolpak and P. S. Eagelson, 12CEC:71:327
Turbulence in Hurricane-Generated Coastal Currents, Stephen P. Murray, 12CEC:71:2051
Use of Volcanoes for Determination of Direction of Littoral Drift, Per Moller Bruun and Gisli Viggosson, 12CEC:71:935
Wave Analysis System for the Breaker Zone, William L. Wood, WAVES:Sept 74:774
Wave Forecasting for the West Coast of India, Jade Dattatri and P. S. Renukaradhya, 12CEC:71:203
Wave Heights Expressed in Engineering Terminology, Homer I. Sargeant and Richard C. Timme, WAVES:Sept 74:433
Wave Measuring Instrumentation for Field Investigations on Breakers, Alfred Fuhrboter and Fritz Busching, WAVES:Sept 74:649
Wave Observations with Capacitance-Type Wave Gauge Array Installed on a Long Pier, Yoshito Tsuchiya and Masataka Yamaguchi, WAVES:Sept 74:689
Wave Runup on Vertical Cylinders, Cyril J. Galvin, Jr. and R. J. Hallermeier, CE13:72:III-1955

Wave Runup

Analytical Approach on Wave Overtopping on Levees, Hiroyoshi Shi-igai and Tsugio Kono, 12CEC:71:563
Breaker Travel and Choice of Design Wave Height, Cyril J. Galvin, Jr., WW2:May 69:175:6569
Damage Functions for a Rubble-mound Breakwater Under the Effect of Swells, Juan B. Font, 12CEC: 71:1567
Estimation of Wave Parameters at Marine Construction, Yu M. Krylov, S. S. Strekalov and V. F. Tsyploukhin, TN: WW4:Nov 71:793:8491
Experimental Study of Wave Transmission, Mohammed Sameh Nasser and John A. McCorquodale, WW4:Nov 74:279:10928
Maximum Breaker Height, J. Richard Weggel, WW4: Nov 72:529:9384
Relations Between the Run-Up and Overtopping of Waves, Shoshichiro Nagai and Akira Takada, CE13:72:III-1975
Wave Attenuation by a Porous Walled Breakwater, Eugene P. Richey and Charles K. Sollitt, CEO-II: 70:903
Wave Runup on Vertical Cylinders, Cyril J. Galvin, Jr. and R. J. Hallermeier, CE13:72:III-1955

Waves

Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
Analysis of Nonlinear Random Wave Problems, Visvaldas J. Grauzinis, WAVES:Sept 74:74
Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534
Avalon Transportation Wharf, James W. Dunham, WW2:May 71:371:8104
Beaches Produced by Waves of Low Phase Difference, Patrick H. Kemp and David Plinston, HY5:Sept 68:1183:6100
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Coastal Engineering Measurements, Johan A. Zwamborn, K. S. Russell and J. Nicholson, CE13: 72:I-75
Computation of Open-Channel Surges and Shocks, George Terzidis and Theodor S. Strelkoff, HY12: Dec 70:2581:7780
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73: 2195:10233
Damping Effect of Floating Breakwater, Juichi Kato, Thoshifumi Noma, Yukio Uekita and Seiya Hagino, WW3:Aug 69:337:6733
Deterministic and Probabilistic Design Wave Approach to Engineering Application, Ronald M. Noble and Richard B. Dornhelm, WAVES:Sept 74: 856
Development of Roll-Wave Trains in Open Channels, Richard R. Brock, HY4:July 69:1401:6704
Discontinuous Composite Wave Absorber Studies, Anthony R. Fallon, CE13:72:III-1903
A Discussion of Some Measured Wave Data, J. R. Wilson and W. F. Baird, CE13:72:I-113
Dynamics of Ship Anchor-Lines in Waves and Currents, Basil W. Wilson and Donald H. Garbaccio, WW4:Nov 64:449:6888
Effect of Flume Width on Bed-Form Characteristics, Maurice J. Crickmore, HY2:Feb 70:473:7077
Effect of Pipeline Junctions on Water Hammer Surges, Don J. Wood and Shen P'eng Chao, TE3: Aug 71:441:8296
Elastic Free-Field Motion Due to Nuclear Blast, Leif E. Fugelso, Robert K. Waddick and Glen L. Heidhardt, EM6:Dec 68:1337:6266
Estimation of Wave Parameters at Marine Construction, Yu M. Krylov, S. S. Strekalov and V. F. Tsyploukhin, TN: WW4:Nov 71:793:8491

Estimation of Wave Statistics from Spectral Information, Yoshimi Goda, WAVES:Sept 74:320
Experimental Study of Wave Transmission, Mohammed Sameh Nasser and John A. McCorquodale, WW4:Nov 74:279:10928
Extreme Wave Statistics for Delaware Coastal Waters, Cheng Y. Yang, Mehmet Aziz Tayfun and George Chia-Chu Hsiao, WAVES:Sept 74:352
Failure of Submarine Slopes Under Wave Action, R. J. Mitchell, K. K. Tsui and Dwight A. Sangrey, CE13:72:II-1515
Flood Wave Modification Along Prismatic Channels, Giampaolo DiSilvio, HY5:Sept 69:1589:6777
Fluid Force on Accelerating Bodies, Wallis S. Hamilton, CE13:72:III-1767
Free Surface Shear Flow Over a Wavy Bed, Yoshiaki Iwasa and John F. Kennedy, HY2:Mar 68:431:5856
Hydraulics of Spatially Varied Pipe Flow, Walter W. Hu, HY6:Nov 67:281:5599
Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, EM3:June 74:599:10620
Irregular Wave Action on Rubble-Mound Breakwaters, Aysen Ergin and Serif Pora, WW2: May 71:279:8114
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
Maximum Breaker Height, J. Richard Weggel, WW4: Nov 72:529:9384
Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713
Mixed Technique for Computing Surges in Channels, J. Ian Collins and Samuel N. Fersht, HY2:Mar 68: 349:5831
Multidirectional Analysis of Monochromatic Wave Trains, Subrata K. Chakrabarti, TN: WW1:Feb 74: 61:10312
New Designs for Beach Protection Structures, G. D. Khaskhachikh, G. A. Tsaturiyan and Ya. S. Shulgin, CE13:72:III-1675
Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333
Numerical Model for Wave Pressure Distributions, J. Richard Weggel and W. Hall C. Maxwell, WW3: Aug 70:623:7467
Ocean Wave Research in Southern Africa, Johan A. Zwamborn, C. van Schaik and A. Harper, 12CEC: 71:13
On Breaking of Internal Gravity Waves, W. O. Criminale, Jr., ISSF:Aug 72:175
On the Need of Wave Data for the Design of Rubble-Mound Breakwaters, Yvon Ouellet, WAVES:Sept 74:500
Peak Distribution of Random Wave-Current Force, Chi C. Tung, EM5:Oct 74:873:10843
Periodic Permanent Roll Waves, Richard R. Brock, HY12:Dec 70:2565:7764
Plastic Filter Cloth used for Stone Seawalls, James W. Dunham and Robert J. Barrett, CE:Mar 74:70
Pressure Upon Vertical Walls from Overtopping Waves, M. E. Plakida, CE13:72:III-1661
Probability Distributions of Breaking Wave Heights, John H. Nath and Fred L. Ramsey, WAVES:Sept 74:379
Propagation of Flood Waves in Open Channels, Bahram Mozayeny and Charles C.S. Song, HY3: May 69:877:6561
Reflection and Transmission for a Porous Structure, Hideo Kondo and Satoshi Toma, CE13:72:III-1847
Sensitivity Analysis of Wind Generated Wave Predictions, Charles D. D. Howard, WW2:May 71: 365:8153
Series Solution to Problems in Elastodynamics, Wilfred W. Recker, EM4:Aug 71:1257:8328
Shoaling of Cnoidal Waves, I. A. Svendsen and O. Brink-Kjaer, CE13:72:I-365
Shock Pressure on Coastal Structures, Adel M. Kamel, WW3:Aug 70:689:7487
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122
Simultaneous Data System for Instrumenting the Shelf, Robert L. Lowe, Douglas L. Inman and Birchard M. Brush, CE13:72:I-95
Stability Criteria for Open-Channel Flow, Themistocles A. Dracos and Bard Glenne, HY6: Nov 67:79:5566
Stability of Laminar Flow at Seabed, John F.A. Sleath, WW2:May 74:105:10512
Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358
Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341: 9931
Surf Observations Along the United States' Coasts, John M. Darling, WW1:Feb 68:11:5786
Testing Sediment Movement Due to Wave Action, Geoffrey R. Mogridge, HY7:July 70:1587:7433
Transformation of Waves Passing a Submerged Bar, Pierce L. Chandler, Jr. and Robert M. Sorensen, CE13:72:I-385
Transient Elastic Waves in Fluid-Filled Cylinder, Wilton W. King and Daniel Frederick, EM5:Oct 68:1215:6188
Transport Littoral: Essais et Calculs, J. P. Epetit, CE13:72:II-971
Vortex-Induced Oscillations at Low-Head Weirs, Zoltan G. Hanko, HY2:Nov 67:255:5597
Wave Analysis System for the Breaker Zone, William L. Wood, WAVES:Sept 74:774
Wave Attenuation by Porous Walled Breakwater, Eugene P. Richey and Charles K. Sollitt, WW3:Aug 70:643:7468
Wave Conditions and Coastal Structures, W. P.A. Broeders and G. van Loenen, WAVES:Sept 74:543
Wave Data Analyses at GLERL, Paul C. Liu and Richard J. Robbins, WAVES:Sept 74:64
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935
Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098
Wave Forecasting for the West Coast of India, Jade Dattatri and P. S. Renukaradhya, WW3:Aug 71: 505:8303
Wave Gages in Coastal Areas, J. J. Pilon, WAVES: Sept 74:585
Wave Groups in Ocean Swell, Warren C. Thompson and Raymond C. Smith, Jr., WAVES:Sept 74:338
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532
Wave Statistics and Rubble Mound Structures, J. Ian Collins, WAVES:Sept 74:486
Wave Statistics for Surfzone Structures, John Simpson Hale, WAVES:Sept 74:453
Wave Train Direction Analysis, Subrata K. Chakrabarti, TN: WW4:Nov 71:787:8491
Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, WW1: Feb 74:13:10325

Wave Spectrum
Analysis of Nonlinear Random Wave Problems, Visvaldas J. Grauzinis, WAVES:Sept 74:74
Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534
CERC Field Wave Gaging Program, Harold G. Peacock, WAVES:Sept 74:170
Comparison of Pressure and Staff Wave Gage Records, D. Esteva and D. Lee Harris, 12CEC:71: 101
Design Considerations on Wave Spectrum Estimation, Mehmet Aziz Tayfun, Cheng Y. Yang and George Chia-Chu Hsiao, WAVES:Sept 74:125
Determining Nearshore Intergravity Wave Spectra, Joseph N. Suhayda, WAVES:Sept 74:54
Directional Spectra From Wave-Gage Arrays, Narayana N. Panicker and Leon Emry Borgman, 12CEC:71:117
Directional Spectra Model for Ocean Waves, Jared L. Black, WAVES:Sept 74:713
Equilibrium Range Spectra in Shoaling Water, Takeshi Ijima, Takahiko Matsuo and Kazutami Koga, 12CEC:71:137
Estimation of Wave Statistics from Spectral Information, Yoshimi Goda, WAVES:Sept 74:320

Finite Spectrum Analyses of Wave Records, D. Lee Harris, WAVES:Sept 74:107
Flow-Field Relationships in Directional Waves, R. R. Putz, WAVES:Sept 74:721
Holographic Method of Wave Spectrum Measurement, Takashi Ichiye and Yasuhiro Sugimori, WAVES:Sept 74:139
Methodes de Mesure et Traitement de la Houle, Rene Bonnefille, CE13:72:I-315
NDBO Wave Data - Current and Planned, Kenneth Edward Steele, Eduardo David Michelena and James Michael Hall, WAVES:Sept 74:417
Non-Stationary Spectrum Analysis of Ocean Waves, Mehmet Aziz Tayfun, Cheng Y. Yang and George Chia-Chu Hsiao, CE13:72:I-251
Observations of Waves in the North Pacific, Lawrence H. Larsen and Douglas R. Fenton, WAVES:Sept 74:197
Refraction of Continuous Ocean Wave Spectra, Thorbjorn Karlsson, WW4:Nov 69:437:6881
Relationship Between the Significant Waves and the Directional Wave Spectrum, Shan-Hwei Ou, Charles L. Bretschneider and Frederick L.W. Tang, WAVES:Sept 74:728
Results from the CERC Wave Measurement Program, Edward F. Thompson, WAVES:Sept 74:836
Review of Techniques for Directional Wave Spectra, Narayana N. Panicker, WAVES:Sept 74:669
Shallow Water Wave Characteristics, Winfried Siefert, CE13:72:I-329
Spectral Computations on Pressure Wave Gauge Records, Manuel Mendes de Carvalho, Fernando Silveira Ramos and Carlos de Campos Moraes, 12CEC:71:65
Spectral Response of Harbor Resonator Configurations, William James, 12CEC:71:2181
Spectrum Analysis of Ocean Wave Records, Basil W. Wilson, Subrata K. Chakrabarti and Robert H. Snider, WAVES:Sept 74:87
Statistical Reliability of Computations Based on Wave Spectral Relations, Leon Emry Borgman, WAVES:Sept 74:362
Structure of Sea Wave Frequency Spectrum, S. S. Strekalov, V. F. Tsyploukhin and S. T. Massel, CE13:72:I-307
Study of Wave Climate in Nearshore Waters, Steven S. Pawka, WAVES:Sept 74:745
A Teleprocess System: The Spanish Offshore Network, L. Tejedor, WAVES:Sept 74:186
Transformation of Waves Passing a Submerged Bar, Pierce L. Chandler, Jr. and Robert M. Sorensen, CE13:72:I-385
Typhoon Waves at the High Island Dam, Hong Kong, Peter Ackers, J. A.T. Aspden and J. L. Boyd, WAVES:Sept 74:523
Wave Data Analyses at GLERL, Paul C. Liu and Richard J. Robbins, WAVES:Sept 74:64
Wave Force on a Vessel Tied at Offshore Dolphins, Yoshimi Goda and Tomotsuka Yoshimura, CE13:72:III-1723
Wave Observations with Capacitance-Type Wave Gauge Array Installed on a Long Pier, Yoshito Tsuchiya and Masataka Yamaguchi, WAVES:Sept 74:689
Wave Prediction, Tim P. Barnett, PITO:74:11

Wave Tanks

Tsunamis: Some Laboratory and Field Observations, Fredric Raichlen, 12CEC:71:2103

Wave Velocity

Continuous Subsurface Profiling by Impulse Radar, Rexford M. Morey, EFSE:Aug 74:213
Effect of Particle Characteristics on Wave Velocity, Raymond J. Krizek, Francis G. McLean and Max W. Giger, TN: GT1:Jan 74:89:10254
A Higher Order Theory for Symmetrical Gravity Waves, Peter L. Monkmeyer, 12CEC:71:543
Laboratory Tests on Artificial Seaweed, W. A. Price, K. W. Tomlinson and D. H. Willis, 12CEC:71:995
A System for Measuring Orbital Velocities in Waves, M. M. Kolpak and P. S. Eagelson, 12CEC:71:327
Turbulent Currents in the Presence of Waves, Helge Lundgren, CE13:72:I-623
Velocity Fields in the Wave Breaker Zone, M. D. Adeyemo, 12CEC:71:435
Velocity Measurement in Waves Using Strain Gauge Technique, Harihar Raman, Viswanatha Sethuraman and I. V. Muralikrishna, WAVES:Sept 74:817

Wear Resistance

Wearability of PC Concrete Pavement Finishes, Alvin H. Meyer, TE3:Aug 74:719:10736

Weather

The Baseball Diamond -- A Gridiron's Best Friend, Thomas C. Kavanagh, CEWAU:74:81
Changes and Changed Conditions, Max E. Greenberg, CEWAU:74:177
Commentary, Bernard P. Monahan and Reuben Samuels, CEWAU:74:78
Weather Modification and People, Robert G. Beebe, OIDS:72:435
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Weather Data

Weather Information and Irrigation Scheduling - I. Weather and Irrigation Demand, Wayne L. Decker, OIDS:72:65

Weathering

Concrete Chimney Design, Construction and Operation, Philip G. Sikes, PO3:June 70:449:7368
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10:Oct 72:995:9303
Rock Property Changes Under Air Pollutant Action, D. Joseph Hagerty and C. Robert Ullrich, RM14:73:127
Slope Stability in Tropically Weathered Diorite, Andrew H. Merritt, RM13:72:625

Weather Modification

Applications Programs of Hail Suppression, Thomas J. Henderson, OIDS:72:403
Arizona Weather Modification Research Program, Paul B. MacCready, Jr., IR2:June 70:103:7324
Augmenting Colorado River by Weather Modification, Patrick A. Hurley, IR4:Dec 68:363:6271
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72:585:9413
Colorado Pilot Project: Design Hydrometeorology, Patrick A. Hurley, HY5:May 72:811:8901
Design of Cloud Seeding Program, Robert D. Elliott, IR2:June 69:275:6600
Hydrologic Consequences of Rainfall Augmentation, Alan M. Lumb and Ray K. Linsley, HY7:July 71:1065:8232
Inadvertent Weather and Precipitation Modification by Urbanization, Stanley A. Changnon, Jr., IR1:Mar 73:27:9608
Legal Aspects of Weather Modification, Palmer King, IR3:Sept 69:403:6782
Modification of Convective Clouds in Northern Plains, Martin R. Schock and Arnett S. Dennis, OIDS:72:373
National Hail Research Experiment, William C. Swinbank, OIDS:72:395
New Water for Northern Plains, Richard A. Schleusener, IR1:Mar 70:53:7145
Orographic Cloud Seeding as a Water Resource, Charles F. Chappell, IRS:Sept 72:389
Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., IR3:Sept 73:215:9983
Priority Problems for Modifying Cumulus Precipitation, Lewis O. Grant, IR73:Aug 73:131
Public Policy Issues in Weather Modification, Dean E. Mann, IR3:Sept 69:375:6772
Responsibility in Weather Modification Operation, Merlin C. Williams and Richard A. Schleusener, IR1:Mar 70:61:7171

Role of the Public in Weather Modification, Adrian R. Chamberlain, IR73:Aug 73:171
Silver Iodide Generators and Public Health, William J. Douglas, IR3:Sept 70:273:7535
Status of Bureau of Reclamation Efforts in Weather Modification, Evaporation Suppression, and Water Salvage, Patrick A. Hurley, IAWM:72:43
Status of Weather Modification in Watershed Management, Merlin C. Williams, IR4:Dec 71:585:8608
User's View of Weather Modification, Donald Christy, IR73:Aug 73:165
Weather Modification and People, Robert G. Beebe, OIDS:72:435
Weather Modification as a Watershed Management Tool, Merlin C. Williams, IR1:Mar 69:15:6434
Weather Modification for Alaska Fire Control, James W. Franks, OIDS:72:423
Weather Modification for Use in High Plains, Richard A. Schleusener and J. R. Miller, Jr., IR3:Sept 74:339:10816
Weather Modification for Use in the High Plains, Richard A. Schleusener and J. R. Miller, Jr., IR73:Aug 73:147
Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9:Sept 72:1515:9187
Weather Modification Regulation, Richard A. Schleusener, IR3:Sept 70:281:7537
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Web Beams
Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409

Webs (Sheets)
Ultimate Static Strength of Plate Girders from Tests, Max A.M. Herzog, ST5:May 74:849:10530

Webs (Supports)
Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
Column Web Strength in Beam-to Column Connections, Wai F. Chen and David E. Newlin, TN: ST9:Sept 73:1978:9968
Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631
Fatigue Strength of Hybrid Plate Girders, A. Anthony Toprac and Murugesam Natarajan, ST4:Apr 71:1203:8069
Lateral Stability of Plane Open-Web Structures, P. C. Varghese, ST11:Nov 74:2223:10924
Stress in Beams with Circular Eccentric Web Holes, Peter W. Chan and Richard G. Redwood, ST1:Jan 74:231:10291
Suggested Design Guides for Beams with Web Holes, John E. Bower, Chmn., ST11:Nov 71:2707:8536
Web Buckling Strength of Beam-to-Column Connections, Wai F. Chen and Irving J. Oppenheim, TN: ST1:Jan 74:279:10264
Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620

Weed Control
Environmental Considerations in the Use of Herbicides on Reclamation Projects, John E. Knoll, OIDS:72:205
Weed Control in Arid Southwest, James W. Kirby and A. Darrell Summers, IR4:Dec 71:571:8570

Weeds
Weed Control in Arid Southwest, James W. Kirby and A. Darrell Summers, IR4:Dec 71:571:8570

Weibull Density Functions
Statistical Methods in Structural Fatigue, Paul H. Wirsching and James T. P. Yao, ST6:June 70:1201:7377

Weight (Mass)
Minimum Weight Design Of Light Gage Steel Members, Paul A. Seaburg and Charles G. Salmon, EC5:70:319
Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603

Weighting Functions
Linearizing Weight Factors For Least-Squares Fitting, Llewellyn E. Jones, HY5:May 71:665:8089
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346

Weir Crests
Increased Logarithmic Weir Profiles, D. Chandrasekaran and Nagar S. Lakshmana Rao, HY11:Nov 74:1583:10946
Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846

Weirs
Characteristics of Flow Weirs of Finite Crest Width, Singamsetti Surya Rao and Manoj Kumar Shukla, HY11:Nov 71:1807:8515
Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2:Feb 73:259:9542
Circular Jumps, Subhash C. Mehrotra, HY8:Aug 74:1133:10758
Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626
Design of Combined Service and Auxiliary Spillway at Auld Valley Reservoir, George F. Horowitz and Daumantas Namikas, HY10:Oct 70:1965:7615
End Effects in Models for Seepage Below Weirs, S. Muthukumaran and V. C. Kulandaiswamy, HY3:Mar 72:541:8794
Flat-Vee Weirs In Alluvial Channels, William Rodney White, HY3:Mar 71:395:7989
Free Surface Slopes at Controls in Channel Flow, David L. Wilkinson, HY8:Aug 74:1107:10753
Linear Proportional Weirs, P. Sreenivasulu and R. Raghavendran, HY2:Feb 70:379:7062
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
Performance and Design of Labyrinth Weirs, Nessim Hay and Geoffrey Taylor, HY11:Nov 70:2337:7691
Spatially Varied Flow Over Side-Weirs, Kanakatti Subramanya and Subhash Chandra Awasthy, HY1:Jan 72:1:8627
Triangular Broad-Crested Weir, Clifford D. Smith and Wen S. Liang, IR4:Dec 69:493:6954
Vortex-Induced Oscillations at Low-Head Weirs, Zoltan G. Hanko, HY2:Nov 67:255:5597

Weld Defects
Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
Lamellar Tearing of Welded Steel, CE:Dec 73:34

Welded Joints
Behavior of Composite-Beam to Column Joints, J. Hartley Daniels, Geoffrey D. Kroll and John W. Fisher, ST3:Mar 70:671:7173
Bolted and Welded Stainless Steel Connections, Samuel J. Errera, Daniel W. Popowich and George Winter, ST6:June 74:1279:10618
Connections in Thin Low-ductility Steels, Asfandiar K. Dhalla, Samuel J. Errera and George Winter, ST10:Oct 71:2549:8442
Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5:May 72:989:8874
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
Stiffening in Tubular Junctions - Some New Concepts, Bharat L. Mehrotra, TN: ST9:Sept 71:2453:8374
Welded Connections under Combined Shear and Moment, John L. Dawe and Geoffrey L. Kulak, ST4:Apr 74:727:10457

Welded Pipes

Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70

Welded Wire Fabric

Crack Width Control in Reinforced Concrete Two-Way Slabs, Edward G. Nawy and Glenn S. Orenstein, ST3:Mar 70:701:7182

Welding

Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
Behavior of Continuous Crane Rails, Pavel J. Marek and J. Hartley Daniels, ST4:Apr 71:1081:8067
Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327
Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5: May 72:989:8874
Fatigue and Fracture, Theme Report, A. A. van Douwen, TB:73:II-18-721
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
Fatigue Strength of Rolled and Welded Steel, Manfred A. Hirt, Ben T. Yen and John W. Fisher, ST7:July 71:1897:8238
Grand Coulee 3rd Powerplant — Units 22, 23 and 24, James F. Meyers, EPCE:Aug 74:413
How Safe are Your Poles?, Joseph R. Arena, ST7: July 73:1333:9848
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741
Management the Lincoln Electric Way, CE:Jan 73:76
Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489
Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749
A Reel-Type Pipelaying Barge, Paul K. Johnson, CE: Oct 71:45
Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, TE3:Aug 74:733:10756
Welded Connections under Combined Shear and Moment, John L. Dawe and Geoffrey L. Kulak, ST4:Apr 74:727:10457
Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851

Welds

Welded Connections under Combined Shear and Moment, John L. Dawe and Geoffrey L. Kulak, ST4:Apr 74:727:10457
Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851

Well Heads

Disposal Well Problems in Chicago and Bakersfield Areas, Ralph G. Berk, SA5:Oct 71:675:8405

Well Logging

Geophysics in Groundwater Exploration, Tsvi Meidav and Jerome S. Nelson, OIDS:72:257

Wellpoints

Suction Wells Dewater Large Construction Site, Robert G. Lenz, CE:Feb 70:40

Well Pumps

Wet-Wells Volumes for Multipump Systems, Gunther Goldschmidt, IR3:Sept 74:371:10830

Wells

Analytical Model for Management of Alluvial Aquifers, Raziq Qazi and Jeris Danielson, IR2:June 74:143:10627
Artificial Ground-Water Recharge by Means of Wells in Israel, Yoav Harpaz, HY12:Dec 71:1947:8579
Computer Analysis of Free Surface Well Flow, Willem F. Brutsaert, E. Allen Breitenbach and Daniel K. Sunada, IR3:Sept 71:405:8376
Concepts for Ground-Water Regulatory District, Dale Twachtmann, EI1:Jan 74:69:10272
Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958
Drawdown in Compressible Unconfined Aquifer, Tatiana D. Streltsova, HY11:Nov 74:1601:10950
Flow of Air Through Soils, Geoffrey E. Blight, SM4: Apr 71:607:8026
Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136
Gravitational and Dispersive Mixing in Aquifers, Lynn W. Gelhar, John L. Wilson, III and John S. Miller, HY12:Dec 72:2135:9439
Hydrogeology of Florida's Largest Citrus Grove, William E. Wilson, IRS:Sept 72:293
Hydrologic Concepts in Suburban Planning, Ed L. Reed, IRS:Sept 72:185
Iterative Analysis: Bounded Leaky Artesian Aquifer, S. A. Vanden Berg, IR1:Mar 69:1:6431
Method of Additional Seepage Resistances—Theory and Application, Tatiana D. Streltsova, HY8:Aug 74:1119:10746
Numerical Analysis of Free Surface Seepage Problems, Peter W. France, Chandrakant J. Parekh, John C. Peters and Cedric Taylor, IR1:Mar 71:165: 7959
Numerical Solution of Multiphase Well Flow, Willem F. Brutsaert, HY11:Nov 73:1981:10162
Optimum Groundwater Level Decline in Eastern Washington, Walter R. Butcher, IRS:Sept 72:291
Rational Design of Wall Screens, Satya P. Garg and Jagroshan Lal, IR1:Mar 71:131:7969
Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171
Steady and Unsteady Flow Towards Gravity Wells, Mohammad Ali Mahdaviani, HY6:Nov 67:135: 5581
Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457: 10243
Tools for Water-Resource Study, Julius H. Dawes, IR4:Dec 70:403:7720
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611
Unsteady Drawdown in Well Groups, Raymond J. Krizek, Gabor M. Karadi and D. Babu Rao, HY10: Oct 71:1625:8436
A Water Spreading and Well Field Water Supply System, Burt A. Babcock, IRS:Sept 72:225
Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176
Well Capacity for Continuous Permeability Variation, Raymond J. Krizek, Wallace H. Baker and Arley G. Franklin, IR3:Sept 69:409:6785
Well Efficiency and Skin Effect, Yaron M. Sternberg, TN: IR2:June 73:203:9766
Wet-Wells Volumes for Multipump Systems, Gunther Goldschmidt, IR3:Sept 74:371:10830
What's New in Deep-Well Injection?, Herman Bouwer, CE:Jan 74:58

Well Screens

Rational Design of Wall Screens, Satya P. Garg and Jagroshan Lal, IR1:Mar 71:131:7969

Well Yield

Concepts for Ground-Water Regulatory District, Dale Twachtmann, EI1:Jan 74:69:10272

West Germany

Elbe Tidal Model with Movable Bed, Hans Vollmers and Egon Giese, CE13:72:III-2447
Industrial Sewage in the Weser Estuary, Gunter Luck, CE13:72:III-2137
Thyssenhaus, Hentrich - Petschnigg & Partner, TB: 73:C-P-448
Unileverhaus, Hentrich - Petschnigg & Partner, TB: 73:C-P-450

Wave Investigations in Shallow Water, Winfried Siefert, 12CEC:71:151

West Virginia
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
Multi-Process Plant Treats Both Dilute and Strong Sewage, Peter Procopio, CE:June 74:67

Wetlands
The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979

Wetting
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie Ling Chiang, HYB:Aug 73:371
Practical Aspects of Shotcrete Application, Fernando E. Valencia, SUSS:July 73:114
Using Accelerator - Wet Process, H. N. Steenson, SUSS:July 73:104

Wharves
Containerport Engineering for the Port of Oakland, E. F. Nielsen, CE:Jan 69:40
Newtown Creek Docking Facilities, George Netch, CE:June 69:64

Wheels
Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925
Shakedown of Rolling Wheel under Hub Loading, Subhash C. Anand and Vijay K. Garg, EM6:Dec 74:1237:11035

White Noise
Dynamic Soil-Structure Interaction, Mauricio A. Sarrazin, ST7:July 72:1525:9026

Wide Field Cameras
Aerotriangulation Precision Attainable for Highway Photogrammetry, Michael C.Y. Hou, SU1:May 74:7:10527

Width
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348
Effective Width of Thin Plates in Compression, George Abdel-Sayed, ST10:Oct 69:2183:6837

Wildlife
Environmental Effects of Oil Pollution, Thomas A. Murphy, SA3:June 71:361:8221
Evaluating Watershed Management Alternativee, Harry E. Brown, IR1:Mar 71:93:7952
Wells Hydroelectric Project Fish Facilities, Robert T. Loder and Michael W. Erho, PO2:Mar 71:301:7982

Wildlife Conservation
Dams and Ecology: Can They be Made Compatible?, Darrell J. Turner, CE:Sept 71:76
Environmental Studies for Rocky Mountain Highway, Austin B. Milhollin, UP1:Mar 74:17:10387
Some Biological Impacts of Converting Powerplants from Oil to Coal, Paul F. Berg, EPCE:Aug 74:623
South Florida Training Runway and Everglades National Park, H. C. Lamberton, Jr., CE:Apr 70:53

Wildlife Habitats
Fish and Wildlife Values in Water Development, James T. McBroom, IAWM:72:377
Impact on Fish and Wildlife from Land-Use Practice, John C. Peters, IAWM:72:387
The Watershed Approach for Fish and Wildlife, L. Dean Marriage, IAWM:72:369
Watershed Vegetation Management-A Wildlife Habitat Opportunity, D. J. Neff and B. Bristow, IAWM:72:347

Wildlife Management
Watershed Vegetation Management-A Wildlife Habitat Opportunity, D. J. Neff and B. Bristow, IAWM:72:347

Wind (Meteorology)
Aeroelastic Galloping of Prismatic Bodies, Milos Novak, EM1:Feb 69:115:6394
Air Pollution Patterns in an Urban Street Canyon, Frederick A. Brunner and Karl B. Schnelle, Jr., EE2:Apr 74:311:10447
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
Characteristics of Saltation of Sand Grains by Wind, Yoshito Tsuchiya and Yoshiaki Kawata, CE13:72:II-1617
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5:May 72:1119:8916
Distribution of Wind Loads to Soils, State-of-Art Report 2, Salvatore V. DeSimone, TB:73:Ia-11-881
Distributions of Extreme Winds Over Oceans, Herbert C.S. Thom, WW1:Feb 73:1:9556
Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
Effect of Turbulence on Galloping Instability, Milos Novak and Hiroshi Tanaka, EM1:Feb 74:27:10338
Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324
Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, STF:73:49
Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343
Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
Human Response to Tall Building Wind-Induced Motion, State-of-Art Report 6, John W. Reed, Robert J. Hansen and Erik H. Vanmarcke,, TB:73:II-17-687
Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868
Hurricane Surge Computations by Computer, Alan N. Sirkin, WW2:May 70:467:7299
Interaction of Ocean Waves with Floating Plate, Yi-Kwei Wen, EM2:Apr 74:375:10492
Lifetime Wave Height Curve for Saint John Deep, Canada, J. Khanna and P. Andru, WAVES:Sept 74:301
Modeling Transportation Impact on Air Quality, Ralph C. Sklarew, D. Bruce Turner and John R. Zimmerman, UT73:May 73:127
Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930
New Distributions of Extreme Winds in the United States, Herbert C. S. Thom, ST7:July 68:1787:6038
Nuclear Power Plant Tornado Design Considerations, James A. Dunlap and Karl Wiedner, PO2:Mar 71:407:7949
Prediction of Wind Wave Heights, Henry T. Falvey, WW1:Feb 74:1:10324
Reducing Pond Evaporation with Perlite Ore, Keith R. Cooley and C. Brent Cluff, IR2:June 72:255:8953
Relationship Between the Significant Waves and the Directional Wave Spectrum, Shan-Hwei Ou, Charles L. Bretschneider and Frederick L.W. Tang, WAVES:Sept 74:728
Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365
Response of Hyperbolic Cooling Towers to Turbulent Wind, Mahmoud G. Hashish and Salman H. Abu-Sitta, ST5:May 74:1037:10542

Some Factors Affecting Control of Flow in a Large Canal System, Johannes J. DeVries and Jaime Amorocho, IR73:Aug 73:329

Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91

Toward a Coherent Natural Hazards Policy, John H. Wiggins, CE:Apr 74:74

Tower Response to Actual and Simulated Wind Forces, Arthur N.L. Chiu and George T. Taoka, ST9:Sept 73:1911:10012

Variation of Mean Winds with Height in Hurricanes, Emil Simiu, TN: EM4:Aug 74:832:10692

Wave Conditions and Coastal Structures, W. P.A. Broeders and G. van Loenen, WAVES:Sept 74:543

Wave Prediction, Tim P. Barnett, PITO:74:11

Wind and Surge Damage Due to Hurricane Camille, Herbert C. S. Thom and R. D. Marshall, WW2: May 71:355:8144

Wind and Wave Climate Study in the North Sea, P. Kruseman, WAVES:Sept 74:1

Wind-Induced Circulation in Shallow Water, Henry Liu and Himerio J. Perez, HY7:July 71:923:8235

Wind Influence Upon Cooling Water Circulation, Gerrit Abraham and Rob Koudstaal, PO1:Mar 69: 63:6466

Wind Loading and Wind Effects, Theme Report, Alan G. Davenport, TB:73:Ib-7-335

Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723

Wind Spectra and Dynamic Alongwind Response, Emil Simiu, ST9:Sept 74:1897:10815

Wind Stress on a Coastal Water Surface, S. A. Hsu, CE13:72:III-2531

Wind Bracing

Schools. . . With Tornado Protection (Book Review), Joseph E. Minor, CE:Sept 74:44

Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870

Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91

Windows

Are the Codes Safe for Wind Pressure?, Clayton T. Crowe, Alfredo Barriga, John A. Roberson and William V. Taylor, TN: ST8:Aug 74:1745:10723

Structural Response to Sonic Booms, Roland L. Sharpe and Garrison Kost, ST4:Apr 71:1157:8063

Sun Shading, Shadows and Effects on Traffic, John S. Gero, TB:73:Ia-1-259

Wind Pressure

Aeroelastic Galloping of Prismatic Bodies, Milos Novak, EM1:Feb 69:115:6394

Along-Wind Response of Large Bluff Buildings, Julius Solnes and Ragnar Sigbjornsson, ST3:Mar 73:381: 9585

Analysis and Design of Hyperbolic Cooling Towers, Ajaya K. Gupta and Adolf Walser, EPCE:Aug 74: 307

Anemometer Height in Froude Scaling of Wind Stress, Jin Wu, WW1:Feb 71:131:7873

Are the Codes Safe for Wind Pressure?, Clayton T. Crowe, Alfredo Barriga, John A. Roberson and William V. Taylor, TN: ST8:Aug 74:1745:10723

Buckling of Cylindrical Shells by Wind Pressure, Yung-shih Wang and David P. Billington, EM5:Oct 74:1005:10874

Cantilever Cylindrical Shells Under Assumed Wind Pressures, S. Gopalacharyulu and D. J. Johns, EM5:Oct 73:943:10085

Circulation in Shallow Homogeneous Lakes, James A. Liggett and Christos Hadjitheodorou, HY2:Mar 69:609:6454

Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248

Decrease in Maximum Hurricane Winds After Landfall, Joseph L. Goldman and Toshimitsu Ushijima, ST1:Jan 74:129:10295

Design Developments - Asia & Australia, State-of-Art Report 4, Leonard K. Stevens, TB:73:Ib-7-399

Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407

Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423

Designing Against Infiltration, State-of-Art Report 4, Elmer E. Botsai, TB:73:Ia-12-1131

Drag or Along-Wind Response of Slender Structures, Barry J. Vickery and Kwan H. Kao, ST1:Jan 72:21: 8635

Drift Criteria, State-of-Art Report 2, Roy G. Johnston, TB:73:II-17-635

Dynamics Of A Single Point Mooring In Deep Water, John H. Nath and Michael P. Felix, CE0-II: 70:45

Effect of Blockage on Steady Force Coefficients, Amruthur S. Ramamurthy and C. P. Ng, EM4:Aug 73:755:9905

Engineers' Inquiry Box: Roof-Tie Downs For Wind Uplift, Peter A. Strobel, CE:Dec 73:64

Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153

Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324

Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, STF:73:49

Finite Element Shallow Lake Circulation Analysis, Richard H. Gallagher, James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855

A General Study of Tornado Generated Missiles, A. J.H. Lee, SDNPF:Dec 73:515

Gust Response Factors, Joseph Vellozzi and Edward Cohen, ST6:June 68:1295:5980

Horizontal and Vertical Water Particle Velocities Induced by Waves, Yoshito Tsuchiya and Masataka Yamaguchi, CE13:72:I-555

Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811

Hyperbolic Cooling Towers, Development and Practice, Paul Rogers and Eli W. Cohen, PO1:Jan 70:117:7030

Impact and Dynamic Load Effects, State-of-Art Report 4, Masanori Izumi, TB:73:Ib-5-77

Lateral Support of Concrete Block Walls, Harry D. Lovering, CE:May 73:74

Lift or Across-Wind Response to Tapered Stacks, Barry J. Vickery and Arthur W. Clark, ST1:Jan 72: 1:8634

Load Fluctuations in Turbulent Flow, Barry J Vickery, EM1:Feb 68:31:5782

Logarithmic Profiles and Design Wind Speeds, Emil Simiu, EM5:Oct 73:1073:10100

Macro-Turbulence From Wind Waves, Chin-Yuan Lee and Frank D. Masch, 12CEC:71:223

Modeling of Structures Subjected to Wind Waves, Erich J. Plate and John H. Nath, WW4:Nov 69: 491:6904

Nuclear Power Plant Tornado Design Considerations, James A. Dunlap and Karl Wiedner, PO2:Mar 71: 407:7949

On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335

Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, Teh-Yuh Kao and Daniel L Shoemaker, HYB:Aug 73:349

Parametric Study of Wind Loading on Structures, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634

Physical Scales for Generation of Wind Waves, Jin Wu, WW2:May 72:163:8879

Relationship Between the Significant Waves and the Directional Wave Spectrum, Shan-Hwei Ou, Charles L. Bretschneider and Frederick L.W. Tang, WAVES:Sept 74:728

Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365

Research Review -- Europe and Africa, State-of-Art Report 2, H. Van Koten, TB:73:Ib-7-375

Research Review -- North and South America, State-of-Art Report 3, W. Alan Dalgliesh and R. D. Marshall, TB:73:Ib-7-383

Response of Structures to Time-Varying Wind Loads, Arthur N.L. Chiu, ST2:Feb 70:381:7104

Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45
Sediment Budget of the Lower Fraser River, Nick Tywoniuk, CE13:72:II-1105
Selection of Design Basis Tornado, M. A. Suarez, SDNPF:Dec 73:597
Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, CE:May 74:58
Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141
Static Wind Loads on Circular Concave Cable Roofs, Gerald R. Seeley, Heinz Stefan and Paul P. Christiano, ST8:Aug 74:1593:10751
Structural Failures: Modes, Causes, Responsibilities, Neal FitzSimons, Chmn., STF:73, 111pp.
Structural Steel Tiered Building Frames, State-of-Art Report 3, Anthony F. Nassetta, TB:73:Ia-3-465
Superstructure for 1,350-ft.-High World Trade Center, Lester S. Feld, CE:June 71:66
Tall Floating Towers, Lawrence Wayne Martin and Phillip J. McCabe, CEO-II:70:879
Tornado Generated Missiles, James R. McDonald, Joseph E. Minor and Kishor C. Mehta, SDNPF:Dec 73:543
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249
Tower Response to Actual and Simulated Wind Forces, Arthur N.L. Chiu and George T. Taoka, ST9:Sept 73:1911:10012
Transient Wind Loads on Circular Concave Cable Roofs, Paul P. Christiano, Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72:1365:9445
Two-Dimensional Wind Set-Up of Oil on Water, Robert M. Sorensen and Edmund B. Spencer, WW3:Aug 71:517:8326
Variation of Mean Winds with Height in Hurricanes, Emil Simiu, TN: EM4:Aug 74:832:10692
Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425
Wave-Influence on Wind Velocity Profile, Omar H. Shemdin, WW4:Nov 70:795:7661
Wind Action on Simple Yielding Structures, Barry J. Vickery, EM2:Apr 70:107:7204
Wind Effects on Tall Buildings -- Areas for Research, Jack E. Cermak, TB:73:Ib-7-435
Wind-Generated Current and Phase Speed of Wind Waves, Omar H. Shemdin, CE13:72:I-537
Wind-Generated Internal Waves and Inertial-Period Motions, Wolfgang Krauss, ISSF:Aug 72:283
Wind-Induced Circulation in Shallow Water, Henry Liu and Himerio J. Perez, HY7:July 71:923:8235
Wind Loading and Wind Effects, Summary Report, S. Mackey, TB:73:Ib-7-445
Wind Loading on Free-Swinging Traffic Signals, James F. Marchman, III, TE2:May 71:237:8140
Wind Loads For National Airlines Hangar In Miami, Frederick M. Law, TN: ST1:Jan 72:421:8619
Wind Loads on Kresge Auditorium and Travelers Building, Francis J. Maher, ST1:Jan 69:1:6330
Wind Stress on a Coastal Water Surface, S. A. Hsu, CE13:72:III-2531
Wind Tunnel Test Expectations, W. H. Melbourne, TB:73:Ib-7-441

Wind Tunnel Models
Wind Effects on Tall Buildings -- Areas for Research, Jack E. Cermak, TB:73:Ib-7-435

Wind Tunnels
Aerodynamic Forces on a Triangular Cylinder, C. F.M. Twigge-Molecey and W. Douglas Baines, EM4:Aug 73:803:9904
Codes and Model Testing, John Springfield, TB:73:Ib-7-431
A General Study of Tornado Generated Missiles, A. J.H. Lee, SDNPF:Dec 73:515
Newport Bridge Superstructure, Alfred Hedefine and Louis G. Silano, ST11:Nov 71:2653:8533
Static Wind Loads on Circular Concave Cable Roofs, Gerald R. Seeley, Heinz Stefan and Paul P. Christiano, ST8:Aug 74:1593:10751
Tornado Generated Missiles, James R. McDonald, Joseph E. Minor and Kishor C. Mehta, SDNPF:Dec 73:543
Wind Effects on Tall Buildings -- Areas for Research, Jack E. Cermak, TB:73:Ib-7-435
Wind Loading and Wind Effects, Summary Report, S. Mackey, TB:73:Ib-7-445
Wind Tunnel Test Expectations, W. H. Melbourne, TB:73:Ib-7-441

Wind Velocity
Decrease in Maximum Hurricane Winds After Landfall, Joseph L. Goldman and Toshimitsu Ushijima, ST1:Jan 74:129:10295
Prediction of Near-Surface Drift Currents from Wind Velocity, Jin Wu, HY9:Sept 73:1291:9995
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249
Wave Conditions and Coastal Structures, W. P.A. Broeders and G. van Loenen, WAVES:Sept 74:543
Wind Loads For National Airlines Hangar In Miami, Frederick M. Law, TN: ST1:Jan 72:421:8619
Wind Variation and Sprinkler Water Distribution, Ido Seginer, IR2:June 69:261:6594

Windward Drift
Physical Scales for Generation of Wind Waves, Jin Wu, WW2:May 72:163:8879

Wings
A Procedure For Automating Aircraft Wing Structural Design, Gary L. Giles, EC5:70:125

Winter
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. Mohan Malhotra, EM2:Apr 74:305:10489
Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359

Wire Rope
Contact Stresses in Twisted Wire Cables, James W. Phillips and George A. Costello, EM2:Apr 73:331:9676

Wisconsin
Analyses and Records -- Dutch Hollow Dam, Kenneth H. Kastman, PES:72:I-285
Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600
Critique of Water Pollution Control Act, Anthony H.J. Dorcey and Irving K. Fox, EE1:Feb 74:141:10326
Diversion of Wastewater from Madison Lakes, William C. Sonzogni and G. Fred Lee, EE1:Feb 74:153:10318
Educational TV Film Spots for Engineering, Kaye Finch, Frederick O. Leidel and James R. Villemonte, CEE:Feb 74:1-1015
First Wisconsin Center, Skidmore, Owings & Merrill, TB:73:C-P-494
Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105
Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
Milwaukee Boosts 600 Ft Steel Arch, Joseph H. Looper and Robert W. Anzia, CE:Jan 74:62
Milwaukee Installs Concrete Median Barriers, Daniel A. Kastenholz, CE:July 73:88
Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Withdrawal
Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73:1401:10018
Mechanics of Stratified Flow Through Orifices, Joseph P. Bohan and John L. Grace, Jr., HY12:Dec 70:2401:7757

Proposed Water Resources Trust Fund, Morris H. Klegerman, CE:Apr 73:52
Selective Withdrawal from Density-Stratified Reservoirs, Norman H. Brooks and Robert C.Y. Koh, HY4:July 69:1369:6702
Select Reservoir Withdrawal by Multilevel Intakes, Walter B. Benton, William J. Wall and Shelton R. McKeever, PO1:Jan 70:109:7029
Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581

Wood
Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
Inelastic Bending of Wood Beams, Borislav D. Zakic, ST10:Oct 73:2079:10071
Laminated Wood Beams Reinforced with Steel Strips, Karl B. Borgin, Gerrit F. Loedolff and Gerald R. Saunders, ST7:July 68:1681:6020
Leaching of Pollutants from Wood-Chip Slurry, Takashi Asano, Alan T. Towlerton and Robert L. Sanks, EE4:Aug 74:855:10707
Orthotropic Elastic Properties of Wood, James R. Goodman and Jozsef Bodig, ST11:Nov 70:2301:7682
Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12:Dec 73:2345:10230
Treated Wood Foundations for Houses, CE:Oct 73:41

Wooden Bridges
FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779

Wooden Piles
Pile Bearing Capacity -- Prediction Versus Performance, George G. Goble, Frederick K. Walker and Frank Rausche, PES:72:I-1243
Removal of Timber Piles in Deep Water, Thomas E. Petermann, CE:Aug 69:56

Wooden Structures
Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599:8786
Layered Beam Analysis, George W. Swift and Robert A. Heller, EM2:Apr 74:267:10484
Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12:Dec 73:2345:10230
Point-Matching Analysis of Curved Timber Beams, Ricardo O. Foschi, ST1:Jan 70:35:6998
Radial Stresses in Curved Timber Beams, Ricardo O. Foschi and Selwyn P. Fox, ST10:Oct 70:1997:7582
Residual Stresses in Curved Laminated Wood Beams, John J. Zahn, ST12:Dec 69:2873:6977
Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt, James R. Goodman and Marvin E. Criswell, ST1:Jan 74:11:10274
Timber-Arch Falsework for Concrete Arch Bridges, E. George Stern, CE:Feb 70:69
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91

Wood Preservatives
Treated Wood Foundations for Houses, CE:Oct 73:41

Wood Wastes
Investigation of a Wood Curing Waste, Vernon L. Stump and Franklin J. Agardy, SA6:Dec 69:1051:6953

Work
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178
Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914

Working Conditions
California ASCE Sections Prepare Employment Guidelines, George S. Korbay and Ronald P. Gallagher, CE:Jan 72:52

Work Measurement
Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083

Work Time Standards
The Impact of Staggered Work Hours on Public Transportation, Roger H. Gilman, NA:Mar 71:91

Writing
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066

Wye Branches
Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215
Reinforcing Steel for Penstock Wye Branch, Kenneth E. Sorensen, PO2:Oct 69:217:6830

Wyoming
Opportunities for Watershed Management in Wyoming, Paul A. Rechard, IR73:Aug 73:423

Yield
Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694
Yield and Failure of Glass-Epoxy Composites, Ori Ishai, Arlo E. Moehlenpah and Aaron Preis, EM5:Oct 70:739:7616

Yield Equations
Collapse Load Analysis of Frames Considering Axial Forces, M. Z. Cohn and Tariq Rafay, EM4:Aug 74:773:10757

Yield Line Method
Approximate Yield Surface Equations, Glenn A. Morris and Steven J. Fenves, EM4:Aug 69:937:6741

Yield Point
Unsymmetrical Yield Point Loads of Spherical Domes, Archibald N. Sherbourne and John Schroeder, EM3:June 68:823:6004

Yield Strength
Approximate Yield Surface Equations, Glenn A. Morris and Steven J. Fenves, EM4:Aug 69:937:6741
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755
Yielding in Framed Structures Under Dynamic Loads, Navin C. Nigam, EM5:Oct 70:687:7613

Younger Viewpoint
Are You Qualified to Take an Educational Expense Deduction This Year?, Victor P. Epperly, CE:Mar 74:96
ASCE and Public Policy, Christopher R. Ryan, CE:Nov 71:78
Dsc, Assuring Engineer-Contractor Cooperation, Michael J. Taylor and Richard G. Almes, CE:May 71:64
Bridge To Europe, Laurence E. Rohter, CE:Mar 73:61
Changes Necessary in ASCE, William K. Johnson, CE:July 70:83
Dsc, The Civil Engineer as a Sales Engineer, James M. Dockey, CE:Feb 71:78
The Civil Engineer In Construction, Richard H. Clough, CE:July 73:97
The Civil Engineer In Research, Johannes J. DeVries, CE:Jan 73:92
Eastern Younger Member Conference Organized, Ira N. Pierce, CE:Aug 71:48
The Engineer and Social Responsibility, Robert E. Paaswell, CE:June 71:82

Engineering Education for Minority Students, James E. Likins, CE:Apr 70:80
Engineering Internship, Dorothy M.N. McClellan, CE:Dec 71:78
Ethics and Mankind, Harry J. Ginsberg, CE:Oct 70:92
A Funny Thing Happened On The Way To The Forum, Michael N. Goodkind, CE:Dec 73:79
Hello Columbus, Michael N. Goodkind, CE:July 74:98
Integration of Technology and Ecology, Richard R. Harbert, CE:Mar 70:76
Is Management The Answer?, David L. Parmeter, CE:May 73:89
Is the Romance With Technology Over?, Stephen C. Mitchell, CE:July 71:79
Looking ahead - What Can One Man Do?, William K. Johnson, CE:Jan 71:77
Looking Back, Gerald L. Baker, CE:Dec 70:69
The Lure of Non-Profitable Service, K. V. Leininger, CE:Aug 70:78
Marketing Professional Engineering Services, Lynn D. Dorsey, CE:Oct 73:99
Never A Greater Need, James L. Wright, CE:Apr 71:81
Opportunities for Shared Concern, Stephen C. Mitchell, Chmn., CE:Feb 74:94
Organizational Changes To Make The Associate Member Forum More Viable Force, CE:June 73:100
Our Priceless Heritage, Our Youth, Leon Jaworski, CE:Mar 73:76
Professional Engineers and Unions (Matter Relating to Fringe Benefits), CE:Nov 70:48
Professionalism, John A. Neal, CE:Sept 70:105
Research to Practice in Pollution Control, Richard D. Ellison, CE:Mar 70:76
The Responsibility Is Ours, Dennis L. Tewksbury, CE:June 70:83
Risk Management, Thomas N. Frisby,, Sr., CE:May 74:94
Should Engineers Engage in Collective Bargaining, Rodney Bower, CE:Oct 74:104
Upgrading the Engineering Profession, Richard C. Bush, CE:Jan 70:87
Young Engineers-Why Do They Change Jobs?, Cheryl Frazee, CE:May 70:69

Zinc Coatings

Bolted Galvanized Bridges-Engineering Acceptance Near, Peter C. Birkemoe and D. C. Herrschaft, CE:Apr 70:42

Zoning

Amortization of Nonconforming Uses in Flood Plains, William R. Walker, UP1:Mar 70:1:7125
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
Architecture of Tall Buildings, State-of-Art Report 8, Arthur James Mc Arthur, Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199
Aseismic Design of Buildings, Jai Krishna, TB:73:Ib-6-299
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73:69:9599
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
A Guide for Urban Planning-Chapter IV: Commercial Land Planning, Fred W. Tuemmler, UP1:Aug 68:31:6086
Hannover Regional Complex Including Airport, Heinz P. Piper, TE2:May 69:245:6534
Hydrologic Concepts in Suburban Planning, Ed L. Reed, IRS:Sept 72:185
Land-use Intensity, the LUI Scale, and Zoning, Byron R. Hanke, UP4:Dec 67:19:5675
Mobile Home Parks and American Municipalities, Stephen Sussna, UP2:Dec 71:139:8562
The New City of Columbia, Md., Edwin Baker, CE:Sept 70:57
Parking Design and Requirements for High Rise Building, State-of-Art Report 11, Richard C. Rich, TB:73:Ia-1-225
Planning Airports System in Paris Area, Jacques V. Block, TE2:May 69:253:6535
Planning for a New Town, Daniel W. Moore, UP1:Apr 71:79:8065
Planning Implications of Urban and Rural Freeway Interchanges, Herman A.J. Kuhn, UP1:Apr 69:81:6521
Report Relating the Impact of Mobile Homes on Urban Plans and Housing Systems by the Task Committee on Mobile Home Parks of the Urban Planning and Development Division, Charles O. Quade, Chmn., UP1:Mar 74:7:10385
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
Transient (Dual) Zoning, Murray I. Mantell, UP1:Mar 74:1:10386
Urbanization's Drainage Consequence, Paul O. Reimer and Joseph B. Franzini, UP2:Dec 71:217:8600
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054

1970-1974 ASCE NAME INDEX

Aalami, Bijan
Large Deflection of Elastic Plates Under Patch Loading, ST11:Nov 72:2567:9359
TR:138:559

Aaron, Henry
Construction Practice for Hot-Mix Bituminous Pavements, Report of the Subcommittee on Construction of the ASCE Committee on Airfield Pavements, AT1:Nov 68:31:6251
TR:135:847

Abaya, N.
Photographs of Tall Buildings, State-of-Art Report 2, with E. Ozer, TB:73:C-AC14-113
See E. Ozer, TB:73:C-AC14-93

Abbasi, Jamil
See James Colville, ST5:May 74:1067:10554

Abbot, Orville
See Ernest C. James, CE:Jan 70:71

Abbott, Michael B.
Four-Point Method of Characteristics, with Adrianus Verwey, HY12:Dec 70:2549:7763
Errata: HY11:Nov 71:1903:8483
TR:137:200
Towards a Design System for Stratified Flows, with John P. Grubert, ISSF:Aug 72:113
See John P. Grubert, HY10:Oct 72:1847:9300

Abbott, Phillip A.
See Robert O. Davis, Jr., EM1:Feb 69:297:6371

Abdel-Aal, Farouk M.
An Analysis of Wave Forces on a Pile, WAVES:Sept 74:867
See Hans Albert Einstein, HY1:Jan 72:137:8652

Abdel-Baset, Saleh B.
Second-Order Collapse Load Analysis: LP Approach, with Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128
TR:139:505

Abdel-Hady, Mohamed
Depth to Ground-Water Table by Remote Sensing, with Harlan H. Karbs, IR3:Sept 71:355:8360
TR:137:1013
See Rudolph V. Matalucci, SA6:Dec 68:1071:6277

Abdel-Razaq, A. Y.
Dsc, HY2:Mar 69:737:6433, of "Design Hydrographs for Pennsylvania Watersheds", HY4:July 68:937:6036

Abdel-Samad, Sana R.
Analysis of Box Girders with Diaphragms, with Richard N. Wright and Arthur R. Robinson, ST10:Oct 68:2231:6153
TR:135:760

Abdel-Sayed, George
Critical Shear Loading of Curved Panels of Corrugated Sheets, EM6:Dec 70:895:7725
Errata: EM1:Feb :260:8680
TR:137:499
Curved Webs Under Combined Shear and Normal Stress, ST3:Mar 73:511:9631
TR:139:274
Effective Width of Steel Deck-Plate in Bridges, ST7:July 69:1459:6673
Dsc: Ramzi H. Ferahian, ST5:May 70:991:7250
Clo: ST2:Feb 71:718:7867
TR:136:516
Effective Width of Thin Plates in Compression, ST10:Oct 69:2183:6837
Dsc: Robert T. Ratay, ST4:Apr 70:874:7191; Alastair C. Walker and Ralph G. Dawson, ST6:June 70:1250:7314; Kothapalli Ramaiah Venkataramaiah and John Roorda, ST7:July 70:1610:7386
Clo: ST3:Mar 71:963:7944
TR:136:291
See Osman A. Marzouk, ST11:Nov 73:2287:10143

Abdul-Baki, Assad
Analysis of Rectangular Plates by Stiffness Method, with Mudar Jamaluddin, EM3:June 74:547:10613
Bearing Capacity of Foundation on Sand, with Lewis A. Beik, SM2:Mar 70:545:7158
Dsc: Leslie L. Karafiath, SM6:Nov 70:2146:7643; Jean-Pierre Giroud and Pierre Stutz, SM6:Nov 70:2148:7643; George C.Y. Hu, SM6:Nov 70:2151:7643; Boris S. Browzin and Gary H. Collison, SM1:Jan 71:250:7785
Clo: SM9:Sept 71:1339:8347
TR:136:1267
Continuous Helicoidal Girders, with Abla Shukair, ST10:Oct 73:2183:10108
TR:139:503

Abdul Khader, M. H.
Flow Through Annulus with Large Radial Clearance, with H. Suresh Rao, HY1:Jan 74:25:10265
Errata: HY12:Dec 74:1848:10974
Grid Turbulence in Initally Turbulent Water Flow, with K. Elango, EM6:Dec 74:1149:11003
Helical Flow Through Concentric Annulus, with H. Suresh Rao, EM2:Apr 72:447:8836
TR:138:231
Dsc, HY4:Apr 70:1050:7189, of "Gravity-Affected Flow from Planar Sluice Gate", HY4:July 69:1211:6674
Dsc, HY7:July 70:1640:7384, of "Fluctuating Pressures in Spillway Stilling Basins", HY6:Nov 69:2071:6915
Dsc, with H. Suresh Rao, HY1:Nov 70:2397:7641, of "Pattern Of Potential Flow in a Free Overfall", HY4:Apr 70:879:7207
Dsc, with K. Elango and H. Suresh Rao, HY1:Jan 71:194:7783, of " Hot-Film Turbulence Measurements in Water Flow", HY3:Mar 70:787:7177
Dsc, with H. Suresh Rao, EM5:Oct 71:1567:8406, of "Turbulence Structure in Plane Couette Flow", EM6:Dec 70:1171:7754
Dsc, with H. Suresh Rao, HY6:June 72:1080:8925, of "Experiments on Plane Couette Flow", HY9:Sept 71:1269:8367
Dsc, with K. Elango and S. Sadasivan, EM6:Dec 74:1266:10972, of "Coherence of Grid-Generated Turbulence", EM6:Dec 73:1227:10248

Abdun-Nur, Edward A.
Control of Quality-A System, CO2:Oct 70:119:7576
Dsc: Walter D. Linzing, CO2:Nov 71:330:8482
Clo: CO2:Sept 72:350:9155
TR:137:458
Dsc, CE:Sept 71:67, on Can Development and Ecology be Reconciled?, CE:Apr 71:67
Dsc, PP2:Apr 72:289:8818, of "Systems Approach and the Civil Engineer", PP1:Oct 71:65:8457
Dsc, PP2:Apr 72:293:8818, of "The Environmental Challenge--Values in Conflict", PP1:Oct 71:17:8471
Dsc, CO2:Sept 72:362:9155, of "Changed Soil and Rock Conditions in Construction", CO2:Nov 71: 257:8509
Dsc, CO2:Sept 72:365:9155, of "Booby Traps for Young Engineers on Construction", CO2:Nov 71: 305:8541

Abe, Hidehiko
See Tatsuo Nishiki, CE:Nov 69:60

Abe, Masatoshi A.
Pricing in Mass Transportation, with Kumares C. Sinha, TE1:Feb 73:83:9551
TR:139:182

Abe, Tetsuo
See Toshio Iwasaki, ISSF:Aug 72:251

Abecasis, Fernando M.
Dsc, HY12:Dec 70:2654:7711, of "Designing Spillway Crests for High-Head Operation", HY3: Mar 70:745:7153

Abel, John F.
Comparison Of Finite Elements For Plate Bending, with Chandrakant S. Desai, TN: ST9:Sept 72:2143: 9162
Stresses Around Flexible Elliptic Pipes, with Robert Mark and Rowland Richards, Jr., SM7:July 73:509: 9858
Errata: GT6:June 74:691:10566
TR:139:355
Dsc, with David P. . Billington, PO2:Dec 74:209: 10976, of "Stability and Dynamic Analyses of Cooling Tower", PO2:Nov 73:339:10141
See Richard D Larrabee, ST12:Dec 74:2367:11002

Abel, John F., Jr.
Tunnel Support-Where Does Geology Come In?, CE: Feb 70:70
TR:136:193

Abeles, Paul W.
Dsc, ST12:Dec 73:2498:10185, of "Symmetry in Structural Mechanics", ST1:Jan 73:71:9475

Abella, Alejandro U.
See Anat Arbhabhirama, HY1:Jan 71:31:7831

Abiodun, Adigun Ade
Analysis of Seepage into Ground-Water System, TN: HY7:July 73:1203:9827

Abonyi, Erwin
Commentary, CEWAU:74:248

Aboudi, Jacob
Elastic Waves in Half-Space with Thin Barrier, EM1: Feb 73:69:9536
Errata: EM6:Dec 73:1306:10181
TR:139:213

Abourezk, James
Dsc, CE:Apr 71:4, on Population and People, CE: Dec 70:27

Abraham, Gerrit
Jets and Plumes Issuing Into Stratified Fluid, ISSF: Aug 72:3
Wind Influence Upon Cooling Water Circulation, with Rob Koudstaal, PO1:Mar 69:63:6466
Errata: PO3:June 70:486:7312
TR:135:41
Dsc, with Gerhard Jirka, HY8:Aug 74:1180:10696, of "Turbulent Entrainment in Buoyant Jets and Plumes", HY9:Sept 73:1461:9992
See Edward R. Holley, HY12:Dec 73:2313:10241

Abrams, Joel I.
Thin Laminates with Homogeneous Elastic Properties, with Ernest R. Scheyhing, EM6:Dec 70: 847:7758
TR:136:1327
See George M. Tomsho, CEE:Feb 74:1-723

Abrams, Philip
New ASCE Officers Installed in Kansas City: 1974, CE:Oct 74:92

Abu-Saba, Elias G.
Vibration of Chimney Supported on Elevated Concrete Slab, ST2:Feb 71:619:7936
TR:137:386

Abu-Sitta, Salman H.
Cooling Towers Supported on Columns, ST12:Dec 70:2575:7753
Clo: ST11:Nov 71:2758:8485
TR:137:258
Dynamic Wind Stresses in Hyperbolic Cooling Towers, with Mahmoud G. Hashish, ST9:Sept 73: 1823:9989
Errata: ST10:Oct 74:2150:10834
TR:139:450
Earthquake Design of Cooling Towers, with Alan G. Davenport, ST9:Sept 70:1889:7524
Dsc: K. V. Swaminathan and C. R. Venkatesha, ST7:July 71:2023:8225
Clo: ST2:Feb 72:500:8684
TR:137:152
Dsc, EM6:Dec 69:1451:6929, of "Shells of Revolution with Concentrated Edge Forces", EM3: June 69:711:6625
Dsc, ST1:Jan 70:154:6990, of "Convergence of Hypar Finite-Difference Solutions", ST5:May 69:809:6540
Dsc, ST4:Apr 71:1378:8015, of "Nonsymmetric Vibrations of Thin Cylindrical Shells", ST10:Oct 70:2175:7632
See Mahmoud G. Hashish, EM2:Apr 71:253:8037
See Mahmoud G. Hashish, ST5:May 74:1037:10542

Abu-Wafa, Taher
Aswan High Dam: Rockfill Built Under Water, with Aziz H. Labib, CE:Aug 71:64
TR:137:529

Acaroglu, Ertan R.
Friction Factors in Solid Material Laden Systems, HY4:Apr 72:681:8854
Dsc: Frederico Lovera, HY3:Mar 73:547:9580; Heramb D. Sharma, D. V. Varshney and Ashutosh K. Agrawal, HY4:Apr 73:684:9637
TR:138:241
See Walter H. Graf, PL2:July 67:63:5352

Achenbach, Jan D.
Flexural Vibrations of Laminated Plate, with Tony R. Zerbe, EM3:June 71:619:8181
TR:137:219
See Fang-Hui Chou, EM4:Aug 72:813:9102
See Ying-San Lai, ST1:Jan 73:19:9470

Achyuthan, Avittathur
Two-Component Force-Balance, with Viswanatha Sethuraman, TN: HY2:Feb 74:339:10340
Dsc, with Viswanatha Sethuraman, HY11:Nov 73: 2153:10109, of "Damage to Karnafuli Dam Spillway", HY12:Dec 72:2155:9452

Ackenheil, Alfred C.
Pennsylvania Erases Its Mining Scars, CE:Oct 70:54
TR:136:934
Recent Developments in Grouting for Deep Mines, with Murray T. Dougherty, SM1:Jan 70:251:7042
TR:136:525

Acker, Richard C.
Foundation and Abutment Treatment for Rockfill Dams, with Jack C. Jones, SM10:Oct 72:995:9303
TR:138:494
See David E. Kleiner, PO1:Jan 71:11:7795

Ackerman, Adolph J.
Dsc, PP3:July 73:408:9824, of "Water Resources in the Future: Directions and Prospects", PP3:July 72:343:9040
Dsc, PP3:July 73:412:9824, of "Ecology - Rage and Reason", PP3:July 72:331:9067
Dsc, EI1:Jan 74:84:10252, of "Nader's Raiders Versus California Water Project", PP1:Jan 73:39:9490

Ackerman, William C.
Eutrophication: Causes, Consequences, Correctives (Book Review), CE:Oct 70:20

Ackermann, Norbert L.
Forces From Submerged Jets, with Rodolfo Undan, HY11:Nov 70:2231:7675
Dsc: John A. Roberson, EM8:Aug 71:1242:8267; S. Narasimhan and Nanak V. Shah, HY9:Sept 71:1530:8345
TR:137:873
Salt Water Interface During Ground-Water Pumping, with Y. Y. Chang, HY2:Feb 71:223:7920
TR:137:226
Surface Disturbance from Submerged Jet, with Rafael T. Apostol and Suvit Siriyong, HY7:July 71:937:8236
Dsc: Subhash C. Jain and Frederick A. Locher, HY5:May 72:955:8859
TR:137:1001

Ackers, Peter
Sediment Transport: New Approach and Analysis, with William Rodney White, HY11:Nov 73:2041:10167
Dsc: Mehmetcik Bayazit, HY9:Sept 74:1294:10770; Frederic T. Mavis, HY9:Sept 74:1296:10770; Amarendra N. Biswas and Prabhat K. Chatterjee, HY10:Oct 74:1495:10839; Hugo Milli, HY10:Oct 74:1497:10839
TR:139:455
Typhoon Waves at the High Island Dam, Hong Kong, with J. A.T. Aspden and J. L. Boyd, WAVES:Sept 74:523
Dsc, HY2:Mar 69:747:6433, of "Rationalization of Lacey's Regime Flow Equations", HY4:July 68:983:6039

Acree, E. H.
An Underwater Survey System for Radionuclide-tagged Sediment Tracing, with H. R. Brashear and F. N. Case, 12CEC:71:815
See H. R. Brashear, 12CEC:71:821

Adam, Jay
Dsc, 4PCSM:72:III82, of "The Standard Penetration Test", 4PCSM:71:I1

Adamowski, Kazimierz
Stochastic Generation of Rainfall, with Anthony F. Smith, HY11:Nov 72:1935:9353
TR:138:548

Adams, Arthur
See Richard N. White, CEE:Feb 74:1-787

Adams, Bobby Dean
See Kenneth L. Lee, SM10:Oct 73:745:10068

Adams, Carl E., Jr.
Response of Activated Sludge to Organic Transient Loadings, with W. Wesley Eckenfelder, Jr, SA2:Apr 70:333:7205
Dsc: Raymond P. Canale, SA6:Dec 70:1448:7713; Larry G. Blackwell, SA1:Feb 71:105:7865
Errata: SA5:Oct 70:1288:7569
Clo: SA5:Oct 71:755:8409
TR:136:1231
See W. Wesley Eckenfelder, Jr., CWFE:Mar 71:291

Adams, J. F.
Dsc, CE:May 69:46, on Package Plants-Past, Present and Future, CE:Feb 69:62

Adams, Jack L.
See Richard E. Speece, SA3:June 69:563:6621

Adams, John C.
See Quentin D. Skinner, IRS:Sept 72:57

Adams, John R.
See David R. Basco, HY12:Dec 71:2023:8599

Adams, Martin E.
Dsc, CE:Aug 69:62, on Estimating Land-Clearing Costs Using Aerial Photograph, CE:Feb 69:66

Adams, Otto Vincent
Memoir of, TR:137:1050

Adams, Peter F.
Plastic Design of Coupled Frame-Shear Wall Structures, with James G. MacGregor, ST9:Sept 70:1861:7505
Dsc: Ganpat S. Pandit, ST6:June 71:1826:8159
TR:137:143
Stability of Asymmetric Structures—Research Needs, ST11:Nov 74:2271:10960
Stability of Three Dimensional Building Frames, State-of-Art Report 4, TB:73:II-16-483
Dsc, ST3:Mar 69:512:6430, of "Ultimate Strength of Laterally Loaded Columns", ST6:June 68:1505:6009
Dsc, with Sauren N. G. Majumdar, W. J. Clark and James G. MacGregor, ST4:Apr 69:769:6486, of "Behavior of Elastic-Plastic Frames", ST5:May 68:1119:5942
Dsc, ST10:Oct 71:2606:8411, of "Plastic Design of Multistory Steel Frames by Computer", ST1:Nov 70:2373:7689
See Peter Arnold, ST1:Jan 68:243:5759
See A. F. Lukey, ST6:June 69:1173:6599
See John Springfield, ST11:Nov 70:2528:7644
See Jacobus H. Wynhoven, ST11:Nov 70:2538:7644
See Sauren N.G. Majumdar, ST4:Apr 71:1097:8031
See Masaaki Suko, ST10:Oct 71:2519:8443
See Jacobus H. Wynhoven, ST1:Jan 72:233:8643
See John Springfield, ST5:May 72:1069:8911
See Jacobus H. Wynhoven, ST7:July 72:1361:9010
See James G. MacGregor, ST11:Nov 72:2351:9351
See Brian R. Wood, ST1:Jan 73:209:9462
See Gordon W. English, ST7:July 73:1457:9851
See William R. Hibbard, ST11:Nov 73:2259:10132
See James H. Davison, ST2:Feb 74:319:10371

Adams, Staley F.
See J. Chinn, ST5:May 69:797:6539

Adams, Thomas L.
Expandable Tip Piling, with Fred C. Stepanich, TN:SM9:Sept 72:987:9161
Experiments in Expandable Tip Piling, with Fred C. Stepanich, SM11:Nov 73:957:10161
Dsc: Biskur K. Ramiah and S. P. Raghunath, GT8:Aug 74:970:10695
TR:139:491

Adepegba, Dotun
See Ramnath N. Swamy, ST6:June 70:1069:7338

Adey, Robert A.
Efficient Method for Solution of Viscoelastic Problems, with Carlos A. Brebbia, EM6:Dec 73:1119:10206
Dsc: Zdenek P. Bazant, EM4:Aug 74:819:10694
TR:139:503

Adeyemo, M. D.
Velocity Fields in the Wave Breaker Zone, 12CEC:71:435

Adham, Samy A.
See Stuart D. Werner, SM5:Sept 70:1838:7499
See Jeremy Isenberg, ST12:Dec 70:2607:7782
See Jeremy Isenberg, PO2:Oct 72:273:9242

Adidam, Sai R.
See George I.N. Rozvany, TN: ST5:May 72:1217:8896
See George I.N. Rozvany, EM6:Dec 72:1337:9404

Adigun, Solomon Alao
Dsc, SM2:Feb 71:505:7866, of "Liquid Limit Values by Soil Moisture Tension", SM3:May 70:967:7298

Adler, Ron K.H.
Lateral Refraction in Proximity of Structures, with Haim B. Papo, SU1:Oct 69:93:6846
TR:136:643

Adrian, Donald Dean
See Robert W. Cleary, EE3:June 73:213:9770
See Robert W. Cleary, EE1:Feb 74:187:10344

Adrian, George W.
See Robert D. Bargman, EE6:Dec 73:939:10204

Adulbhan, Pakorn
See Donald R. Drew, WW3:Aug 72:393:9131

Advani, Rupchand M.
Dsc, with Pashupati N. Modi, HY4:Apr 70:1044:7189, of "Stability of Structures on Permeable Foundations", HY4:July 69:1095:6648
Dsc, with Pashupati N. Modi, HY8:Aug 70:1763:7439, of "Limit Slope in Uniform Computations", HY1:Jan 70:95:7011
Dsc, with Pashupati N. Modi, HY9:Sept 70:1910:7497, of "Manning Formula-A Misnomer", HY1:Jan 70:193:7036
Dsc, with Pashupati N. Modi, HY11:Nov 70:2384:7641, of "Graphical Solution to Hydraulic Jump", HY1:Jan 70:103:7014
Dsc, with Pashupati N. Modi, HY1:Jan 71:204:7783, of "Resistance Studies on Smooth Open Channels", HY5:May 70:1129:7266
Dsc, with Pashupati N. Modi, HY10:Oct 71:1788:8407, of "Hydraulic Jump Within Gradually Expanding Channel", HY1:Jan 71:31:7831
Dsc, with Pashupati N. Modi, HY11:Nov 71:1923:8483, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994
Dsc, HY12:Dec 73:2385:10182, of "Unified Nondimensional Formulation for Open Channel Flow", HY1:Jan 73:1:9468

Afifi, Sherif S.
Long-term Pressures Effects on Shear Modulus of Soils, SM10:Oct 71:1445:8475
TR:137:860

Afshari, Hooshang
See Alan I. Soler, TN: ST4:Apr 74:837:10456

Agardy, Franklin J.
See Vernon L. Stump, SA6:Dec 69:1051:6953

Agarwal, Akhilesh C.
Differential Expansion in Elastic Laminates, with Mark W. Huggins, ST4:Apr 73:655:9653
TR:139:286

Agarwal, S. C.
See G. Sastry, IR2:June 72:247:8939

Agarwal, S. P.
See S. K. Guha, TN: EM2:Apr 71:589:8017

Agarwal, Sohan L.
Experimental Verification of Discrete-element Solutions for Plates, with William Ronald Hudson, TN: ST8:Aug 71:2159:8275

Agarwal, Tej P.
See Prem Krishna, ST6:June 71:1671:8168

Agarwal, V. P.
See S. K. Guha, TN: EM2:Apr 71:589:8017

Agarwal, Vijay K.
See Heramb D. Sharma, HY2:Feb 73:375:9523

Agbabian, Mihran S.
See Jeremy Isenberg, TE4:Nov 73:887:10166

Aggarwal, Anand S.
Dsc, EM4:Aug 69:1017:6705, of "A Numerical Technique for Elastica Problems", EM5:Oct 68:1159:6182
See J. Stewart Kennedy, EM3:June 71:637:8165

Aggarwal, Vinod
See Charles G. Culver, ST4:Apr 73:715:9682
See Paul J. Ossenbruggen, ST4:Apr 73:727:9681

Agrawal, Ashutosh K.
See Satya P. Garg, HY5:May 71:653:8091
See Satya P. Garg, HY7:July 71:1148:8223
See Heramb D. Sharma, HY4:Apr 73:684:9637

Agrawal, Babu L.
See Dhirendra N. Buragohain, ST5:May 73:799:9715

Agrawal, Jagdish S.
See Rowland Richards, Jr., GT6:June 74:637:10631

Agrawal, Krishna M.
Dsc, ST9:Sept 69:2000:6755, of "New Rectangular Finite Element for Shear Wall Analysis", ST3:Mar 69:399:6464
Dsc, EM5:Oct 70:792:7574, of "Three-Dimensional Bar Cell for Elastic Stress Analysis", EM3:June 70:313:7352
See Semih S. Tezcan, EC5:70:675
See Semih S. Tezcan, ST1:Jan 71:407:7847
See Samuel L. Lipson, ST5:May 74:865:10521

Agrawal, P. K.
Comparative Study of Soil Spring and Finite Element Models for Seismic Soil-Structure Interaction Analysis of Nuclear Power Plants, with Shih-Lung Chu and Hemant H. Shah, SDNPF:Dec 73:63
See Surendra Singh, SDNPF:Dec 73:43

Aguado, Eduardo
Ground-Water Hydraulics in Aquifer Management, with Irwin Remson, HY1:Jan 74:103:10287
Errata: HY8:Aug 74:1192:10696
Optimal Pumping for Aquifer Dewatering, with Irwin Remson, Mary F. Pikul and Will A. Thomas, HY7:July 74:869:10639

Aguilar, Antonio M.
Area and Volume Errors in Reservoir Projects, SU2:Nov 71:287:8538
TR:137:937
Estimating Costs of Aerial Surveys, CE:Oct 69:70
TR:135:769
Principles of Survey Error Analysis and Adjustment, SU1:Sept 73:107:10034
TR:139:547
Selection of Maps for Engineering and Planning, SU1:July 72:107:9073
Clo: SU1:Sept 73:140:9965
TR:139:228

Aguirre, A.
See J. Aguirre, TB:73:C-P-482

Aguirre, J.
Building B -- Santiago Central Development Program, with C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
Rotonda Vitacura Building, with A. Aguirre, TB:73:C-P-482

Ahlvin, Richard G.
Structural Analysis of Flexible Airfield Pavements, with Yu Tang Chou and Ronald L. Hutchinson, TE3:Aug 74:625:10727

Use of Concentration Index for Pavement Design, with Yu Tang Chou and Harry H. Ulery, Jr., TE1: Feb 74:135:10349
Dsc, with Yu Tang Chou and Harry H. Ulery, Jr., TE4:Nov 71:711:8486, of "Implications of Using Layered Theory in Pavement Design", TE4:Nov 70:495:7662

Ahmad, Daud
See Herman J. Koloseus, HY1:Jan 69:409:6367

Ahmad, Ihsan
See K. G. Ranga Raju, HY12:Dec 72:2224:9391

Ahmad, Mushtaq
Dsc, with Abdul Rehman, HY3:Sept 69:1739:6784, of "Rationalization of Lacey's Regime Flow Equations", HY4:July 68:983:6039
Dsc, HY7:July 73:1176:9823, of "Chapter V: Sediment Control Methods: C. Control of Sediment in Canals", HY9:Sept 72:1647:9177
Dsc, HY9:Sept 73:1639:9961, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Ahmed, Nazeer
Nonlinear Flow in Porous Media, with Daniel K. Sunada, HY6:Nov 69:1847:6883
  Dsc: John D. Lawson and Robin P. Curtis, HY7: July 70:1632:7384; R. P. Ranganadha Rao and C. Suresh, HY8:Aug 70:1732:7439; Avdhesh K. Tyagi and David K. Todd, HY8:Aug 70:1734: 7439; Domenico Zampaglione, HY8:Aug 70: 1738:7439; Frederic T. Mavis, HY1:Jan 71:170: 7783
  Clo: HY8:Aug 71:1233:8267
  TR:136:818
Dsc, HY5:May 74:701:10505, of "Friction Factor and Reynolds Number in Porous Media Flow", HY6:June 73:901:9784

Ahmed, Syed
Pore Sizes and Strength of Compacted Clay, with Charles William Lovell, Jr. and Sidney Diamond, GT4:Apr 74:407:10500

Ahrens, John P.
The Influence of Breaker Type on Riprap Stability, 12CEC:71:1557

AIA Documents Board
Dsc, CO11:Nov 71:339:8482, of "Report on Recommended Amendments to AIA General Conditions (A-201), Eleventh Edition, September, 1967, by the Committee on Contract Administration of the Construction Division", CO2: Oct 70:165:7640

Ailor, William H., Jr.
Metals in Wastewater Treatment, EE2:Apr 74:295: 10444

Airis, Thomas F.
Use of Air Rights over Urban Expressways, TE2:May 69:357:6550
  Dsc: Robert L. McFall, TE2:May 70:245:7251
  TR:136:641

Akai, Koichi
Analysis of Observed Embankment Performance in Terms of Effective Stress, with Masahiko Komatsu and Masanari Tominaga, PES:72:I-341

Akan, A. Osman
Dsc, HY3:Mar 74:489:10379, of "Computer Programming for Flow Over Side Weirs", HY3:Mar 73:495:9626

Akesson, A.
Dsc, ST12:Dec 72:2825:9395, of "Column-Plate Interaction in Flat Slab Structures", ST1:Jan 72: 307:8670

Akhand, Shemsul A.
See Jason C. Yu, TE3:Aug 74:593:10717

Akili, Waddah
Dsc, SM3:May 69:921:6525, of "Mechanical Properties of a Sand-Ice System", SM4:July 68:923: 6030
Dsc, PISST:71:315, of "Mechanical Properties of a Sand-Ice System", PISST:71:287

Akin, Elmer W.
See William F. Hill, Jr., NSCD:71:223
See William F. Hill, Jr., SA5:Oct 71:601:8423

Akiyama, Hiroshi
See Ben Kato, ST1:Jan 69:33:6335
See Y. Yokoo, TB:73:II-17-619

Akkas, Nuri
Buckling and Post-Buckling of Spherical Caps, with Nelson R. Bauld, Jr., EM3:June 71:727:8189
  TR:137:235

Aktan, A. Emin
R/C Column Earthquake Response in Two Dimemsions, with David A, Pecknold and Mete A. Sozen, ST10:Oct 74:1999:10864

Aktas, A. Ziya
Stress Distribution Around Shell Openings, ST11: Nov 70:2337:7693
  TR:137:239

Alam, Abu M.Z.
Friction Factors for Flow in Sand Bed Channels, with John F. Kennedy, HY6:Nov 69:1973:6900
  Dsc: Thomas Maddock, Jr., HY10:Oct 70:2123: 7568
  Clo: HY6:June 71:858:8155
  TR:136:520
Optimization Model for Churchill River Diversion, HY8:Aug 72:1351:9089
  TR:138:409
Dsc, HY4:Apr 70:1081:7189, of "Instability of Flat Bed in Alluvial Channels", HY5:Sept 69:1545:6770

Albaisa, Aurelio
See Kenneth L. Lee, GT4:Apr 74:387:10496

Albasiny, Ernest L.
Dsc, with David W. Martin, ST7:July 68:1850:6017, of "Hyperbolic Cooling Towers Under Wind Load", ST5:Oct 67:487:5532

Alberro A., Jesus
Analysis and Behaviour of a Concrete Cutoff Wall (In Spanish), 4PCSM:71:II275
Settlements Near Excavations (In Spanish), 4PCSM: 71:II211
Stress-Strain Analysis of El Infiernillo Dam, PES:72: I-837

Alberts, Claes
Use of Remote Controlled Spraying Nozzle, SUSS: July 73:65

Alberts, R. R.
See E. H. Stewart, SEA:70:63

Albertsen, Norman D.
See Harvey H. Haynes, ST6:June 72:1291:8963

Albertson, Maurice L.
Former I&D Chairman Honored, CE:Mar 72:90
See J. Paul Tullis, HY5:Sept 69:1633:6787
See Mohammad T. Chaudhry, HY5:May 74:667: 10550

Albright, John C.
Evaluation of Antarctic Star Observations, with James L. Clapp, SU2:Sept 68:81:6092
  Errata: SU1:Oct 69:178:6804
  TR:135:741

Albritton, Gayle E.
Deep Slabs Subjected to Static and Blast Loading, ST11:Nov 69:2449:6919
  Dsc: Neil W. Lane, ST5:May 70:1005:7250; Ganpat S. Pandit, ST8:Aug 70:1823:7442
  Clo: SM1:Mar 71:966:7944
  TR:136:365

Alcott, A. David
Dsc, with Norbert O. Schmidt, SM5:May 71:803:8083, of "Engineering Behavior and Structure of Compacted Clay", SM4:July 70:1171:7397

Al-Dabbagh, Adam
Finite Element Method for Wood Mechanics, with James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784
  TR:138:174

Alden, F. G.
See Harry R. Powell, TE3:Aug 72:633:9096

Alden, William L.
StaRRcar Automatic Capsule Transportation, UTI:71:113

Aldersebaes, Jacob K.
Containment Structure For Trojan Nuclear Plant, with Karl Wiedner, PO2:Mar 71:351:7957
  Dsc: Melvin W. Jackson, PO4:Dec 71:885:8554
  Clo: PO2:Oct 72:351:9223
  TR:137:566

Aldridge, Robert G.
State-of-the-Art: Pipe Lines in the Oceans — Construction Factors, PITO:74:57

Alemu, Solomon
See Francois J. Resch, HY1:Jan 74:137:10297

Alexander, Ben
The Basic Inadequacy of Conventional Urban Transportation Modes, UTI:71:59

Alexander, C.
See Delbert M. Leppke, CO1:Mar 71:53:8002

Alexander, Geoffrey N.
Dsc, HY12:Dec 73:2388:10182, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Alexander, Ira H.
Control Surveys: Historical Summary, Preface, and Chapter 1, SU2:Sept 70:245:7556

Alexander, Louis Jessup
Memoir of, TR:138:615

Alexander, Michael
Dsc, with Arthur J. Greengard, Jr. and Bruce Blanchard, CE:Aug 69:51, on The Military Draft: Educational and Occupational Deferments for Engineers, CE:May 69:67

Alexander, Stuart M.
See Charles V. Gibbs, SA6:Dec 72:951:9402

Alexander, Taylor R.
Biological Implications Of Water Resource Management, SEA:70:1

Alexander, William D.
Book Review: Joint Ventures For Architects And Engineers, CE:Aug 73:30
Civil Engineers Help Construct the World's Largest Proton Accelerator, with Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
  TR:138:474

Alexiev, Alexander P.
Dsc, GT9:Sept 74:1079:10769, of "Behavior of Returned Lunar Soil in Vacuum", SM11:Nov 73:979:10156

Alford, W. T.
Role of the Air Line Pilot in Air Transportation, ASC73:Mar 73:55

Alger, George R.
Fall Velocity of Irregular Shaped Particles, with Daryl B. Simons, HY3:May 68:721:5949
  Dsc: Mohammad Akram Gill, HY1:Jan 69:561:6323
  Clo: HY1:Jan 70:256:6988
  TR:135:638

Al-Hussaini, Mosaid M.
Dsc, SM9:Sept 72:958:9158, of "Effect of Mica on K_o Compressibility of Two Soils", SM9:Sept 71:1275:8401
Dsc, SM12:Dec 72:1409:9394, of "Evaluation of Properties of Rockfill Materials", SM1:Jan 72:95:8672

Ali, Iqbal
Dsc, HY7:July 73:1180:9823, of "Chapter V: Sediment Control Methods: C. Control of Sediment in Canals", HY9:Sept 72:1647:9177

Ali, Kamil H.M.
Flow Over Rounded Spillways, HY2:Feb 72:365:8704
  Dsc: John J. Cassidy, HY1:Jan 73:267:9459
  Clo: HY7:July 73:1155:9823
  TR:139:26
Free-Vortex Theory Applied To Free Overfalls, with Ann Sykes, TN: HY5:May 72:973:8864
See Richard B. Whittington, HY1:Jan 72:45:8629

Ali, Mir M.
Reinforced Concrete Design for Strength and Deformability, with Donald E. Grierson, EM5:Oct 74:839:10859

Alizadeh, Mahmood M.
Circular Land Cofferdam for Deep Excavation, CO1:July 73:11:9840
  TR:139:475
Lateral Load Tests on Piles-Arkansas River Project, with Melvin T. Davisson, SM5:Sept 70:1583:7510
  Dsc: Prabhakar J. Pise, SM5:May 71:811:8083; Peter Kocsis, SM6:June 71:932:8158; Sol M. Gleser, SM6:June 71:935:8158; Wallace Estill Wilson, SM6:June 71:936:8158
  Clo: SM3:Mar 72:293:8751
  TR:137:69
See Charles I. Mansur, SM2:Mar 70:495:7163

Allen, B. E.
See M. Galbreath, TB:73:Ib-8-721

Allen, Chester Lee
The Ethics of Teacher Evaluation, PP1:Oct 71:153:8465
  Dsc: John M. Hayes, PP1:Oct 71:158:8408

Allen, David
Dsc, CE:Sept 72:73, on Poor Structural Design Brings West Gate Bridge Failure, CE:June 72:47
Dsc, PP3:July 73:415:9824, of "Civil Engineer's Compensation - ASCE's Future", PP4:Oct 72:557:9226
Dsc, PP3:July 73:416:9824, of "Guideline: Employer—Engineer Relationship", PP4:Oct 72:523:9279

Allen, David E.
Gravity Loads and Temperature Effects, Summary Report, TB:73:Ib-5-145
Progressive Collapse, Abnormal Loads, and Building Codes, with William R. Schriever, STF:73:21
Strength Factors for Composite Members, TB:73:III-26-940
Dsc, ST7:July 69:1581:6644, of "Statistical Model for Live Floor Loads", ST10:Oct 68:2183:6146

Allen, George W.
Dredge Spoil Surveillance In Shellfish Areas, with Donald M. Conlon, CEO-II:70:823

Allen, Howard G.
Dsc, ST2:Feb 70:417:7047, of "Local Failure of Plastic-Foam Core Sandwich Panels", ST4:Apr 69: 585:6494

Allen, James
Frost Heaving of Piles in Permafrost, with Robert W. Huck, CE:Apr 72:77
  TR:138:215

Allen, John H.
See Umesh Dayal, GT1:Jan 74:85:10250
See Umesh Dayal, GT5:May 74:553:10504

Allen, John J.
Significance of Variably Confined Triaxial Testing, with Marshall R. Thompson, TE4:Nov 74:827: 10911

Allen, W. S.
Dsc, SM1:Jan 71:260:7785, of "State of Predictive Art in Subsidence Engineering", SM2:Mar 70:721: 7187

Allen, William B.
Memoir of, TR:135:1119

Allende Posse, Justiniano
Dsc, CE:May 74:20, on Buffalo Creek Dam Disaster: Why It Happened, CE:July 73:69

Allesandri, Joseph P.
See Ivan F. Gennis, CE:Dec 73:45

Alley, David A.
Mobile-Home Parks, with Ivan Orton and John L. Young, CE:Sept 71:88
  TR:137:602

Alley, E. W.
Long Prestressed Piles, CE:Apr 70:50
  Dsc: Halvard W. Birkeland, CE:July 70:57
  TR:136:342

Allgood, Jay R.
Structures In Soil Under High Loads, SM3:Mar 71: 565:8006
  TR:137:416
Dsc, with Michael G. Katona, ST10:Oct 74:2152: 10834, of "Stress Distribution Around Shallow Buried Rigid Pipes", ST1:Jan 74:161:10258
See Robert J. Odello, ST10:Oct 73:1999:10096

Allison, Horatio
Plastic Design: A Case History, CE:Apr 69:61
  TR:135:358
Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, TB:73:II-15-279

Allison, Stephen V.
Irrigation Development in Bangladesh, with Kazi F. Jalal, IR1:Mar 74:69:10394
  Dsc: Phillip Z. Kirpich, IR4:Dec 74:515:10975; John Fothergill Cooke, IR4:Dec 74:518:10975
Simulation of Wind Effects on Sprinkler Performance, with Victor L. Hesse, IR4:Dec 69: 537:6978
  TR:136:1207

Allman, William B.
See Thomas S. Harlan, CE:June 73:78

Allred, Jesse F.
Sequoyah Ice Condenser Containment Structure, with Robert O. Barnett, PO1:May 73:019:9695
  Clo: PO1:July 74:130:10636
  TR:139:95

Almeida, Filomeno N.
Dsc, ST10:Oct 71:2621:8411, of "Experimental Study of Lateral Buckling of Arches", ST2:Feb 71:545: 7893
Dsc, ST5:May 72:1207:8861, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71: 2203:8353
See Alfred G. Bishara, ST7:July 70:1445:7411
See Alfred G. Bishara, ST9:Sept 71:2261:8387

Almes, Richard G.
See Michael J. Taylor, CE:May 71:64

Almeyer, William C.
Dsc, ST11:Nov 70:2545:7644, of "Stability Problems of Wood Truss Bridge", ST2:Feb 70:353:7095

Almuti, Amin M.
Static and Dynamic Cyclic Yielding of Steel Beams, with Robert D. Hanson, ST6:June 73:1273:9817
  TR:139:373

Al-Nassri, Sabah A.
See A. Roy Halliwell, HY12:Dec 70:2615:7711

AlNouri, Ilham
See Orlando B. Andersland, SM4:July 70:1249:7406

Alonso, Eduardo E.
Randomness of Settlement Rate under Stochastic Load, with Raymond J. Krizek, EM6:Dec 74:1211: 11027

Alpern, Milton
"Engineer Shortage" - A Myth That is as Bad as a Guile, PP4:Oct 73:441:10082
  Dsc: Sol E. Cooper, EI3:July 74:259:10633
  TR:139:481
Improved Monitoring of C.E. Education - The Need and a Method, with Vincent Bonvissuto, CEE:Feb 74:1-913

Alperovits, Elyahu
See Nathan Buras, IR1:Mar 73:43:9586

Alperstein, Robert
Dsc, SM10:Oct 73:893:10038, of "Expansion of Cylindrical Probes in Cohesive Soils", SM11:Nov 72:1129:9377

Alpsten, Goran A.
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, TB:73:Ib-9-755

Alsup, Stephen
A Recommended Borehole Investigation System for Soft Ground, EFSE:Aug 74:117

Alter, Amos J. (Joe)
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Alterman, Israel
Dsc, SM3:May 69:916:6525, of "Stresses Against Underground Structural Cylinders", SM4:July 68: 833:6022

Altinbilek, Hilmi D.
See Albert R. LeFeuvre, HY10:Oct 70:2051:7636
See Marion R. Carstens, HY5:May 72:787:8890

Altschaeffl, Adolph G.
Capacitance Techniques For Radial Deformations, with Louis P. Mishu, TN: SM4:July 70:1487:7387
Dsc, with Philip J. Valent, SM5:May 71:820:8083, of "Engineering Properties of Submarine Soils: State-of-the Art Review", SM5:Sept 70:1735:7536
See Gerald A. Leonards, SM1:Jan 71:269:7785
See Asuri Sridharan, SM5:May 71:771:8151

Alvarez, Leonardo
See Ricardo Dobry, SM6:Nov 67:237:5582

Alvarez, Ronald J.
Inelastic Analysis of Multistory Multibay Frames, with Charles Birnstiel, ST11:Nov 69:2477:6922
  Dsc: Kurt Kloppel and Wolfhart Uhlmann, ST7: July 70:1617:7386; E Whitman Wright and Edwin H. Gaylord, ST8:Aug 70:1824:7442; John Springfield, ST8:Aug 70:1824:7442
  Clo: ST4:Apr 71:1346:8015
  TR:136:375

Alverson, James E.
Dsc, PO1:July 74:137:10636, of "Benefits to Environment Glen Canyon to Hoover Dams", PO2: Nov 73:395:10146

Alzheimer, William E.
Unsymmetrical Bending of Prestressed Annular Plate, with R. T. Davis, EM4:Aug 68:905:6066
  TR:135:881

Amar, Abnish C.
Dsc, HY2:Feb 74:330:10305, of "Nonlinear Equation of Unsteady Ground-Water Flow", HY3:Mar 73: 395:9589
Dsc, HY6:June 74:829:10567, of "Validity of Dupuit-Forchheimer Equation", HY9:Sept 73:1573:9997
See Richard R. Brock, HY4:Apr 74:569:10503

Amaral, Nilo Andrade
South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, TB:73:III-20-57

Amaya, Luis E.
See Cary K.K. Mak, CEO-II:70:535

Ambos, Gerd
See Gert Konig, TB:73:III-23-613

Amein, Michael
Implicit Flood Routing in Natural Channels, with Ching S. Fang, HY12:Dec 70:2481:7773
  Dsc: J. William Kamphuis, HY5:May 71:761: 8081; Dinshaw N. Contractor and James M. Wiggert, HY5:May 71:762:8081; Danny L. Fread, HY7:July 71:1156:8223; Delbert D. Franz, HY9:Sept 71:1552:8345; Emmett M. O'Loughlin and David L. Short, &HY10:Oct 71: 1771:8407
  Clo: HY6:June 72:1075:8925
  TR:137:576
See Leonard J. Langfelder, WW2:May 70:531:7306

Amer, Abdelwahab M.
Permeability of Cohesionless Soils, with Amin A. Awad, TN: GT12:Dec 74:1309:10981
Dsc, IR4:Dec 69:646:6930, of "Salt Balance, Irrigation Efficiency, and Drainage Design", IR1: Mar 69:153:6465
Dsc, HY2:Feb 71:369:7863, of "Seepage from Trapezoidal Channels", HY6:June 70:1261:7335

Ameruso, Anthony R.
Planning and Designing for the Pedestrian Environment, BP73:Dec 73:204

Ames, W. F.
Elimination Of Secularity In Regular Perturbation, with H. M. Khalil, TN: EM2:Apr 72:487:8815

Amiet, Lyle R.
New Drydock for American Ship Building Company, WW2:May 73:137:9712
  TR:139:297

Amin, Mohammad
Nonstationary Stochastic Model of Earthquake Motions, with Alfredo H.-S. Ang, EM2:Apr 68:559: 5906
  TR:135:850
See Alfredo H.-S. Ang, ST7:July 69:1389:6667

Amir, Illan
See Mordechai H. Diskin, WW2:May 70:359:7283

Amir, Joram M.
Dsc, with Avigdor Rutenberg, GT3:Mar 74:375: 10378, of "Analysis of Piles in Soil Undergoing Lateral Movement", SM5:May 73:391:9740

Amirhor, Parviz
See Malay Chaudhuri, EE4:Aug 74:937:10732

Ammar, Albert R.
See Arthur H. Nilson, ST4:Apr 74:711:10467

Amon, Rene
Circular Plate with Supported Edge-Beam, with John Dundurs, EM3:June 68:731:5971
  TR:135:861
Stability of Edge-Reinforced Circular Plate, with Otto E. Widera, TN: EM5:Oct 71:1597:8412

Amorocho, Jaime
Power Losses and Flow Topologies in Manifold, with Johannes J. DeVries, HY1:Jan 71:81:7791
  Dsc: John G. Stavropoulos, HY9:Sept 71:1561: 8345
  Clo: HY4:Apr 72:711:8799
  TR:137:597
See Johannes J. DeVries, IR73:Aug 73:329
See Basilio Espildora, HY1:Jan 74:249:10251

Amrhein, James E.
Structural Masonry, by Sven Sahlin (Book Review), CE:Oct 71:12

Amron, Richard
AISC Manual of Steel Construction-New Edition-Book Review, CE:Dec 70:8

Anand, Subhash C.
Buckling of Wide Flange Columns About Minor Axis, with Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513
  TR:139:215
An Educator-Practitioner Interaction Program, PP2: Apr 73:259:9674
  Dsc: Michael J. O'Rourke, PP4:Oct 73:545:10040; Ross M. Lanius, Jr., EI1:Jan 74:88:10252; Robert L. Henry, EI1:Jan 74:89:10252
  Clo: EI4:Oct 74:362:10835
  TR:139:296
Evaluation of a University-Industry Interaction Program, with Marvin E. Criswell, CEE:Feb 74:1-971
Inelastic Buckling of Rings with Residual Stresses, with Alvin R. Griffith, EM5:Oct 73:927:10063
  TR:139:458
Prestressed Composite Steel Beam Design, with Ahmed Talesstchi, ST3:Mar 73:301:9594
  Dsc: James W. Chai, ST11:Nov 73:2328:10113
  Clo: ST7:July 74:1526:10637
  TR:139:238
Shakedown of Rolling Wheel under Hub Loading, with Vijay K. Garg, EM6:Dec 74:1237:11035
Stress Distribution Around Shallow Buried Rigid Pipes, ST1:Jan 74:161:10258
  Dsc: Jay R. Allgood and Michael G. Katona, ST10:Oct 74:2152:10834; Alan J. Esser, Robert L. Sogge, A.M. and Ralph M. Richard, ST11: Nov 74:2349:10899
Dsc, GT11:Nov 74:1257:10897, of "Stress Analysis of Hollow Cylindrical Inclusions", GT2:Feb 74:123: 10364
See Vijay K. Garg, EM1:Feb 74:128:10303

Anandakrishnan, M.
Response of Embedded Footings to Vertical Vibrations, with N. R. Krishnaswamy, SM10:Oct 73:863:10092
  Dsc: Milos Novak, GT5:May 74:562:10504
  Errata: GT11:Nov 74:1254:10897
  Errata: GT5:May 74:563:10504
  TR:139:452
Dsc, with T. Kuppusamy, SM2:Mar 70:772:7115, of "Settlement of Building on Deep Compressible Soil", SM3:May 69:769:6547
See N. S. V. Kameswara Rao, EM2:Apr 71:271:8034

Anastasescu, Decebal M.
See Constantin N. Avram, TB:73:III-20-67
See Constantin N. Avram, TB:73:III-20-131
See Constantin N. Avram, TB:73:III-21-318

Anckaitis, Victor W.
Mapping for the Pennsylvania Highways, SU2:Oct 67:103:5530
  Errata: SU1:Oct 69:175:6804
  TR:135:419

Anderheggen, Edoardo
Finite Element Plate Bending Equilibrium Analysis, EM4:Aug 69:841:6715
  Errata: EM4:Aug 70:502:7438
  TR:135:1081

Andersland, Orlando B.
Consolidation of Papermill Sludges, with P. John Mathew, SM5:May 73:365:9713
  TR:139:313
Permeability of High Ash Papermill Sludge, with Robert W. Laza, SA6:Dec 72:927:9443
  Errata: EE3:June 73:393:9758
  TR:139:543
Time-Dependent Strength Behavior of Frozen Soils, with Ilham AlNouri, SM4:July 70:1249:7406
  TR:136:970
Dsc, with Arthur G. Douglas, SM3:May 70:1073:7249, of "Bonding, Effective Stresses and Strength of Soils", SM5:Sept 69:1219:6786
See Roy R. Goughnour, SM4:July 68:923:6030
See Roy R. Goughnour, PISST:71:287
See Robert P. Vallee, SM8:Aug 73:642:9892
See Robert P. Vallee, GT3:Mar 74:309:10431

Anderson, Alexander
Dsc, HY9:Sept 74:1290:10770, of "Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes", HY11:Nov 73:1933:10158

Anderson, Alvin G.
Dsc, WW1:Feb 72:86:8686, of "Flume Experiments on Alternate Bar Formation", WW1:Feb 71:155:7869

Anderson, Arthur R.
Dynamic Driving Stresses in Prestressed Concrete Piles, with Saad E. Moustafa, CE:Aug 71:55
  Dsc: Frank Rausche, CE:Apr 72:73; Donovan H. Lee, CE:May 72:65
  Clo: Arthur R. Anderson, CE:May 72:65
  Clo: Arthur R. Anderson, CE:May 72:65
  TR:137:521
Precast Concrete for Cladding on Mass Concrete, RCCD:70:309

Anderson, Clayton L.
See Fred W. Blaisdell, HY12:Dec 72:2237:9391

Anderson, Donald A.
See Verne E. Smith, HY12:Dec 73:2293:10245

Anderson, Donald G.
Temperature Effect on Shear Wave Velocity in Clays, with Frank E. Richart, Jr., TN: GT12:Dec 74:1316:10981
Dsc, with Richard D. Woods, GT11:Nov 74:1254:10897, of "Vibratory In Situ and Laboratory Soil Moduli Compared", SM12:Dec 73:1055:10219

Anderson, Donald L.
See Stanley G. Hutton, EM5:Oct 71:1503:8448

Anderson, Donald N.
20th Century Renaissance, PP3:July 73:373:9886
  Dsc: Robert L. McFall, EI3:July 74:257:10633
  TR:139:426

Anderson, Douglas
Irrigation Adequacy with Center Pivot Sprinklers, with Robert J. Brown, IRS:Sept 72:353

Anderson, Edward K.
Dsc, SM1:Jan 69:375:6324, of "Pile-Driving Formulas For Friction Piles in Sand", SM6:Nov 67:279:5604

Anderson, Eric A.
See John C. Monro, HY5:May 74:621:10549

Anderson, Grant L.
Early Age Strength Properties of Shotcrete, with Melvin E. Poad, SUSS:July 73:277
See Samuel S.M. Chan, RM14:73:757

Anderson, Grant S.
Baltimore Plans Highways for Minimum Noise, with Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
  TR:138:410

Anderson, H. Walter
See Jerry S. Dodd, RM13:72:171

Anderson, James B.
See Herbert S. Riesbol, PO1:Jan 71:93:7811

Anderson, James C.
Earthquake Resistant Design of Unbraced Frames, with Raj P. Gupta, ST11:Nov 72:2523:9344
  Errata: ST9:Sept 73:1958:9964
  TR:139:143
Response of Suspended Boilers to Earthquake Motions, with Ramachandran Srinivasan and Robert J. Small, EPCE:Aug 74:363
Dsc, with Vitelmo V. Bertero, ST6:June 70:1246:7314, of "Elasto-Plastic Seismic Response of Reinforced Concrete Frame", ST10:Oct 69:2031:6813
See Lawrence A. Loziuk, HY11:Nov 72:1983:9372
See Lawrence A. Loziuk, PO2:Nov 73:349:10150

Anderson, James J.
Real-Time Computer Control of Urban Runoff, HY1:Jan 70:153:7028
  Dsc: George Fleming, HY9:Sept 70:1908:7497; Robert L. McFall, HY9:Sept 70:1909:7497
  TR:136:937

Anderson, Jerry L.
Negatively Buoyant Jets in a Cross-Flow, with Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469

Anderson, John M.
Stability of Monosymmetric Beams and Cantilevers, with Nicholas S. Trahair, ST1:Jan 72:269:8646
  TR:138:122

Anderson, Joseph
Construction and Operation of Wells Dam, with Lee A. Wyngaard, PO2:Feb 71:335:7975
  TR:137:630

Anderson, Marshall L.
Community Improvements and Services Costs, UP1:Mar 73:77:9600
  TR:139:229

Anderson, Maynard M.
Water-System Expansion Spurs New Tunnel Technology, CE:Sept 70:69
  Errata: Correction, M. M. Anderson, CE:Jan 71:71
  TR:136:731

Anderson, Melvin W.
See P. G. Teleki, 12CEC:71:269

Anderson, Peter W.
Impact of Drought on New Jersey's Water Resources, with Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
  Dsc: Gordon R. Williams, IR2:June 73:197:9761
  Clo: IR1:Mar 74:93:10380
  TR:139:118

Anderson, Reg A.
Air Conveyed Concrete -- A Unique Cost-Saving System for Mixing and Placing Concrete, with Fred N. Mueller, ECCD:72:273

Anderson, Robert D.
New Method for Deep Sand Vibratory Compaction, CO1:Mar 74:79:10429

Anderson, Robert P.
See Alan H. Yorkdale, ST5:May 72:1119:8916

Anderson, W. E.
Estimating Cracking Behavior of Metallic Structures, with Lee A. James, ST4:Apr 70:773:7213
Dsc: Victor Singer, ST9:Sept 70:1982:7567
Clo: ST4:Apr 71:1359:8015
TR:136:889

Andrawes, Kamal Z.
Factors Affecting Coefficient for Earth Pressure, with Mohamed A. El-Sohby, SM7:July 73:527:9863
Dsc: Umesh Dayal and John H. Allen, GT5:May 74:553:10504; Biskur K. Ramiah and S. P. Raghunath, GT5:May 74:555:10504
Clo: GT12:Dec 74:1299:10973
TR:139:360
Dsc, with Mohamed A. El-Sohby, SM5:May 72:504:8860, of "Effect of Mica on K_0 Compressibility of Two Soils", SM9:Sept 71:1275:8401

Andrews, George H.
Public Works and the Environment, TE1:Feb 73:1:9517
Dsc: David C. Colony, TE1:Feb 74:282:10307
Clo: TE4:Nov 74:999:10901
TR:139:132

Andrews, John F.
Dynamic Model of the Anaerobic Digestion Process, SA1:Feb 69:95:6418
Dsc: Shankha K. Banerji, SA6:Dec 69:1191:6931; George E. Fox and Philip A. Rice, SA6:Dec 69:1191:6931; Richard R. Dague, SA6:Dec 69:1194:6931; Frederick G. Pohland and J. C. Martin, SA6:Dec 69:6931
Clo: SA3:June 70:848:7313
TR:136:714

Andrews, William A.
Dsc, ST1:Jan 69:130:6325, of "Lateral Stability of Welded Light Trusses", ST3:Mar 68:809:5873

Andriopoulos, Alexios
See Ramnath N. Swamy, ST6:June 70:1069:7338

Andros, J. Peter
See Richard M. Bodner, SA4:Aug 70:893:7451

Andru, P.
See J. Khanna, WAVES:Sept 74:301

Aneja, Ish K.
Model Analysis of Curved Box-Beam Highway Bridge, with Frederic Roll, ST12:Dec 71:2861:8603
Dsc: Adel Fam and Carl J. Turkstra, ST10:Oct 72:2320:9227
Clo: ST7:July 73:1635:9826
TR:139:10

Ang, Alfredo H.-S.
Reliability Bases of Structural Safety and Design, with C. Allin Cornell, ST9:Sept 74:1755:10777
Safety Factors and Probability in Structural Design, with Mohammad Amin, ST7:July 69:1389:6667
Dsc: Frederic T. Mavis, ST4:Apr 70:849:7191; Ganpat S. Pandit, ST4:Apr 70:852:7191; N. Gopalakrishnan and Jawalker K. Sridhar Rao, ST4:Apr 70:853:7191; J. Tiago de Oliveira, ST4:Apr 70:856:7191; Peter Lumb, ST4:Apr 70:858:7191; Carl J. Turkstra, ST5:May 70:986:7250; Abraham M. Hasofer, ST5:May 70:988:7250
Clo: ST3:Mar 71:956:7944
TR:136:161
Structural Risk Analysis and Reliability-Based Design, ST9:Sept 73:1891:10011
Dsc: Jerzy Kasinski, ST8:Aug 74:10697; N. T. Thomopoulos and Anatole Longinow, ST8:Aug 74:10697; Emilio Rosenblueth, ST8:Aug 74:1733:10697
TR:139:457
Structural Safety—A Literature Review, ST4:Apr 72:845:8842
Dsc: John A. Burnes, ST1:Jan 73:217:9462; Carlo Gavarini and Daniele Veneziano, ST1:Jan 73:219:9462; Ganpat S. Pandit, ST3:Mar 73:582:9583
TR:138:214
Towards Risk-Based Design and Performance Criteria, TB:73:Ib-10-1007
See Mohammad Amin, EM2:Apr 68:559:5906
See James G. Crose, EM4:Aug 69:979:6746
See Bruce R. Ellingwood, ST9:Sept 74:1771:10778

Angarola, Ralph J., Jr.
Dsc, SU2:Nov 74:175:10900, of "Tunnel Survey and Tunneling Machine Control", SU1:Sept 73:21:10008

Angel, Edward
Irregular Regions and Constrained Optimization, EM3:June 73:581:9819
TR:139:358

Angelin, Stig V.
See Roy E. Coxon, HY2:Feb 73:301:9562

Angevine, George B.
Industry and Conservation--A Strange but Compatible Marriage, WQEF:Mar 70:45

Angstadt, C. R.
See Frederick L. Moreadith, SDNPF:Dec 73:201

Anisimova, E. P.
Turbulence in Stratified Flows, with A. A. Speranskaya, ISSF:Aug 72:475

Annamalai, Natarajan
Cost Optimization of Welded Plate Girders, with Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258
Dsc: M. K. Surendranath, ST9:Sept 73:1955:9964
Clo: ST4:Apr 74:819:10442
TR:139:135

Annambhotla, V.S. Shastri
Statistical Properties of Missouri River Bed Forms, with William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358
TR:138:544

Annand, John D.
Dsc, CE:Mar 72:39, on A Game Plan for Interprofessional Collaboration in Engineering and Architecture, CE:Oct 71:41

Anraku, Hidetake
See Ben Kato, EM4:Aug 72:891:9091

Anselmi, Alessio
See Pericle Quadrio Curzio, SUSS:July 73:79

Ansley, R. W.
See M. P. duPlessis, PL2:July 67:1:5340

Antes, David R.
Creativity, The Young Engineer's Viewpoint, CEWAU:74:22

Anton, Jose M.
Dsc, ST4:Apr 70:871:7191, of "Limit Analysis of Structures", ST9:Sept 69:1901:6778

Anton, Walter F.
Camanche Dike-2 Slurry Trench Seepage Cutoff, with David J. Dayton, PES:72:I-735

EBMUD's Programs for Inspection and Remedial Treatment of Old Dams, IMROD:Sept 73:829
Performance of Briones Dam, with David J. Dayton, PES:72:I-853
See H. Bolton Seed, IMROD:Sept 73:745

Antonelli, Frederick A.
Continuous Reinforcement in Airport Concrete Pavements, CE:Dec 69:62
TR:135:1088

Antoni, Charles M.
See James A. Mandel, ST7:July 71:1947:8260

Antonino, Ronald A.
The Arkansas River Project, CE:Dec 69:44
TR:135:800

Antrim, John D.
Bachelor of Technology: Six Years Experience, with Milan E. Degyansky and William A. Welsh, CEE: Feb 74:1-231

Anuchin, V. N.
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, with A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF:Aug 72:527

Anwar, Habib O.
Appearance of Unstable Buoyant Jet, HY7:July 72: 1143:9012
TR:138:354
Behavior of Buoyant Jet in Calm Fluid, HY4:July 69: 1289:6688
Dsc: James J. Sharp, HY4:Apr 70:1065:7189
Clo: HY11:Nov 70:2373:7641
TR:136:93
Dsc, EM6:Dec 68:1586:6260, of "Solution for Gravity Flow Under a Sluice Gate", EM1:Feb 68: 153:5797
Dsc, HY1:Jan 70:288:6988, of "Spread of Buoyant Jets at the Free Surface", HY3:May 69:811:6538
Dsc, HY1:Jan 72:297:8620, of "Two-Dimensional Surface Warm Jets", HY6:June 71:819:8186
Dsc, EM1:Feb 73:227:9522, of "Experiments on Unstable Vortices", EM3:June 72:539:8948

Anzia, Robert W.
See Joseph H. Looper, CE:Jan 74:62

Aoyama, Hiroyuki
Repeated and Cyclic Loadings, TB:73:III-22-460

Apeland, Kristoffer
Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, TB:73:Ib-5-85

Apelt, Colin J.
Bridge Piers-Hydrodynamic Force Coefficients, with Lewis T. Isaacs, HY1:Jan 68:17:5707
Dsc: Alan J. Reynolds, HY1:Jan 69:469:6323
Clo: HY5:Sept 69:1717:6784
TR:135:467
Dsc, HY10:Oct 70:2134:7568, of "Numerical Method of Computing Flow Profiles", HY1:Jan 70:75:7005

Apgar, William J.
See David R. Basco, HYB:Aug 73:121

Apmann, Robert P.
Diffusion of Sediment in Developing Flow, with Ralph R. Rumer, Jr., HY1:Jan 70:109:7018
TR:136:415
Estimating Discharge From Superelevation in Bends, HY1:Jan 73:65:9482
TR:139:182
Experiences with Bed Sills in Stream Stabilization, with Paul H. Blinco, WW3:Aug 69:319:6724
TR:136:561
Flow Processes in Open Channel Bends, HY5:May 72:795:8886
Dsc: Donald A. Parsons and William C. Harmon, HY4:Apr 73:687:9637
TR:138:263
Validity Of Two-Point Method Of Velocity Sampling, TN: HY10:Oct 70:2171:7575
Dsc, HY9:Sept 70:1925:7497, of "Resistance Studies on Smooth Open Channels", HY5:May 70:1129: 7266

Apostol, Rafael T.
See Norbert L. Ackermann, HY7:July 71:937:8236

Apparao, Tamirisa V.S.R.
Columns Braced by Girts and a Diaphragm, with Samuel J. Errera and Gordon P. Fisher, ST5:May 69:965:6576
TR:135:114
Dsc, ST12:Dec 70:2674:7714, of "Hyperbolic Functions for Prestress Loss and Camber", ST4:Apr 70:803:7227
Dsc, with Pallessena R. Natarajan, ST1:Jan 73:215: 9462, of "Lateral Buckling of Constrained Beams", ST3:Mar 72:741:8793

Appendino, M.
Dsc, PES:73:III-241, of "Consolidation Effects Around Driven Piles", PES:72:I-1207

Appl, Franklin J.
Buckling of Inelastic Tapered Pin-Ended Columns, with James O. Smith, EM2:Apr 68:549:5897
TR:135:479

Appleby, F. Victor
See Terence O'Donnell, HY6:Nov 69:2160:7248

Arai, M.
See R. W. Bock, EFFD:Mar 74:87

Aral, Mustafa M.
See C. Samuel Martin, HY7:July 71:1081:8239

Arango, Ignacio
Seismic Stability and Deformation of Clay Slopes, with H. Bolton Seed, GT2:Feb 74:139:10360
See Edward Margason, PES:72:I-181

Aranguren, Flora
See Juan B. Font, 12CEC:71:2243

Arbhabhirama, Anat
Free Streamline Analysis of Two-Dimensional Jet, HY4:July 69:1139:6658
TR:135:85
Friction Factor and Reynolds Number in Porous Media Flow, with Antonio A. Dinoy, HY6:June 73: 901:9784
Dsc: Nazeer Ahmed, HY5:May 74:701:10505; Richard P. Long and Joseph O. Elmer, HY5: May 74:703:10505
TR:139:293
Hydraulic Jump Within Gradually Expanding Channel, with Alejandro U. Abella, HY1:Jan 71:31: 7831
Dsc: Hari R. Sharma, HY9:Sept 71:1567:8345; Mohan M. Dandekar, HY9:Sept 71:1569:8345; Rupchand M. Advani and Pashupati N. Modi, HY10:Oct 71:1788:8407; M. Padmanabhan, HY10:Oct 71:1789:8407
Clo: HY9:Sept 72:1717:9156
TR:137:926
Dsc, with Edward K. Noda, HY12:Dec 70:2674: 7711, of "Seepage from Trapezoidal Channels", HY6:June 70:1261:7335

Arce, C. M.
Compared Experiences with the S.P.T. (In Spanish), with F. L. Torres and H. J. Vercelli, 4PCSM:71: II95

Arch, W. H.
Construct Systems, Summary Report, with Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823

Archer, John C.
See Gunnar A. Harstead, PO2:Mar 71:475:7966

Archer, Robert R.
See Rajabhau S. Deshmukh, EM5:Oct 74:903:10860

Ardis, Colby V.
Storm Drainage Practices of Thirty-two Cities, with Kenneth J. Dueker and Arno T. Lenz, HY1:Jan 69: 383:6365
  Dsc: Richard A. Rogers, HY6:Nov 69:2195:6866; Kenneth R. Wright and Elmer L. Claycomb, HY6:Nov 69:2196:6866
  Errata: HY6:June 70:1354:7310
  TR:136:783

Arena, Joseph R.
Guide for Design of Steel Transmission Towers, Manual 52, Prepared by the Task Committee on Tower Design of the Committee on Analysis and Design of Structures, 1971, 47 pp.
  TR:136:1320
How Safe are Your Poles?, ST7:July 73:1333:9848
  Dsc: John B. Scalzi, ST4:Apr 74:824:10442; Raymond C. Reese, ST6:June 74:1317:10569; Toshio Kai and Koichiro Okuto, ST9:Sept 74: 1954:10772
  TR:139:388
How Safe Are Your Towers?, ST1:Jan 70:1:6994
  Dsc: Massimo Finzi, ST:Oct 70:2237:7570; William J. Thrasher, ST10:Oct 70:2238:7570; George R. Sinclair, ST10:Oct 70:2241:7570
  Clo: ST4:Apr 71:1356:8015
  TR:136:499
Dsc, PO1:Mar 69:149:6442, of "Electric Transmission Tower Design", PO1:May 68:1:5932

Arendts, J. G.
Concrete Box-Girder Bridges as Sandwich Plates, with Wallace W. Sanders, Jr., ST11:Nov 70:2353: 7695
  Dsc: S. P. Sharma and A. Rajaraman, ST8:Aug 71:2153:8271
  Clo: 1972
  TR:137:248

Argaman, Yerachmiel
Design of Optimal Sewerage Systems, with Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050
  Dsc: P. Khanna, EE4:Aug 74:1042:10693
  TR:139:381
Turbulence and Flocculation, with Warren J. Kaufman, SA2:Apr 70:223:7201
  Dsc: George E. Glover, SA4:Aug 70:1025:7441
  Clo: SA2:Apr 71:229:8013
  TR:136:354
Dsc, SA5:Oct 71:783:8409, of "Shearing Effects On Settling of Activated Sludge", SA1:Feb 71:59:7926

Arguello, Ottoniel
Mississippi River Water for Texas?, with Raphael G. Kazmann, IR4:Dec 73:441:10212
  TR:139:501

Argyris, John H.
General Treatment of Structural Modifications, with John R. Roy, ST2:Feb 72:465:8732
  Errata: ST2:Feb 73:280:9525
  TR:138:150
Large Deflection Analysis of Prestressed Networks, with Dieter W. Scharpf, ST3:Mar 72:633:8788
  Errata: ST2:Feb 73:281:9525
  TR:138:185
Dsc, with John R. Roy, EM6:Dec 72:1599:9390, of "Reanalysis for Limited Structural Design Modifications", EM1:Feb 72:61:8706

Argyropoulos, Praxitelis A.
New Considerations and Experimental Data on Plastic Pipes, TN: TE2:May 73:431:9688
Dsc, HY3:May 68:827:5920, of "Determination of Efficient Open Channel Sections", HY6:Nov 67: 103:5567
Dsc, HY2:Mar 69:725:6433, of "Profile of the Hydraulic Jump", HY3:May 68:663:5931
Dsc, HY9:Sept 70:1906:7497, of "Graphical Solution to Hydraulic Jump", HY1:Jan 70:103:7014
Dsc, HY9:Sept 70:1912:7497, of "Manning Formula-A Misnomer", HY1:Jan 70:193:7036
Dsc, HY12:Dec 70:2667:7711, of "Resistance Studies on Smooth Open Channels", HY5:May 70:1129: 7266
Dsc, HY11:Nov 72:2046:9305, of "Spatially Varied Flow Over Side-Weirs", HY1:Jan 72:1:8627

Arhippainen, Esko
Memoir of, TR:137:1051

Arias, Arturo
Rating of Ground Motion, TB:73:Ib-6-320

Ariman, Teoman
See Lawrence H.N. Lee, CEO-II:70:579

Arita, Y.
Summary On Studies Of Setting The Self Elevating Drilling Unit "Fuji" On Soft Silty Sea Bed, with Y. Nakao, CEO-II:70:461

Armacost, James O., III
See George C. Driscoll, Jr., ST1:Jan 70:17:6995

Armenakas, Anthony E.
See Henry E. Keck, EM2:Apr 71:541:8071

Armento, William J.
Cofferdam for BARTD Embarcadero Subway Station, SM10:Oct 73:727:10075
  TR:139:439
Criteria for Lateral Pressures for Braced Cuts, PES: 72:I-1283

Armentrout, Charles L.
Channel Slope Effect on Peak Discharge of Natural Streams, with Robert B. Bissell, HY2:Feb 70:307: 7052
  Dsc: Frederic T. Mavis, HY6:June 70:1377:7310; Sat Dev Khanna, HY7:July 70:1657:7384; Curtis L. Larson, HY8:Aug 70:1771:7439; Brian M. Reich, HY10:Oct 70:2146:7568; Jayant P. Patel and Arvind P. Mody, HY12:Dec 70:2620: 7711
  Clo: HY7:July 71:1134:8223
  TR:136:952

Armour, John
Urban Growth and Public Works Planning, PWS:Nov 72:3

Armstrong, Alva J.
Dsc, HY6:Nov 69:2170:6866, of "Currents in an Interoceanic Canal", HY1:Jan 69:79:6342

Armstrong, Ellis L.
Armstrong Joins URS, CE:May 73:60
Closing Remarks, IMROD:Sept 73:901
Concrete Dam Design and Construction Improvements, ECCD:72:3
Consideration of Alternatives in Decision Making, EI2:Apr 74:119:10498
Development of Tunneling Methods and Controls, CO2:Oct 70:99:7577
  Dsc: Frank T. Wheby, CO2:Nov 71:333:8482; John Paul Hartman, CO2:Nov 71:335:8482; Robert R. Faddick, CO2:Nov 71:336:8482
  Clo: CO2:Sept 72:351:9155
  TR:137:835
E. L. Armstrong Joins Ranks Of ASCE Honorary Members, CE:Oct 73:89
Needed - A New Outlook for Irrigation, OIDS:72:1
Opening Remarks, IMROD:Sept 73:1

Recycling of Land Resources, PWS:Nov 72:57
    Dsc: Alfred Goldstein, PWS:Nov 72:67; William H. Keating, PWS:Nov 72:68; Calvin G. Cooper, PWS:Nov 72:69; Charles W. Yoder, PWS:Nov 72:70
The Undersea Aqueduct -- A New Concept in Transportation, TE2:May 72:303:8893
    Errata: TE2:May 73:427:9691
    TR:138:195
Dsc, CE:July 70:38, on The Civil Engineer and the Conservationist, CE:Feb 70:37

Armstrong, Richard C.
Replacement-Lock and Dam No. 26: Plans Considered, WW1:Feb 70:49:7071
    TR:136:418

Armstrong, William L.
Dynamic Testing of Curved Bridge - Huyck Stream, ST9:Sept 72:2015:9179
    TR:138:429

Arnault, P.
See Margaret Law, TB:73:Ib-8-475

Arndt, Arthur P.
See John B. Scalzi, TB:73:II-17-653

Arnold, A. B.
See Marian Pona, PO2:Nov 73:305:10145

Arnold, C. Adrian
Multipurpose Land-Water Transfer Facility, WW2: May 72:253:8903
    TR:138:335

Arnold, Christopher
SCSD:Pioneer Effort in Systems Approach to Building Construction, CE:Apr 69:41
    TR:135:321

Arnold, Gregory C.
See Patrick D. Fitzgerald, IR1:Mar 72:91:8767

Arnold, Peter
Strength and Behavior of an Inelastic Hybrid Frame, with Peter F. Adams and Le-Wu Lu, ST1:Jan 68: 243:5759
    Dsc: Adel Helmy Salem, ST11:Nov 68:2627:6203
    Clo: ST1:Jan 70:125:6990
    TR:135:416

Arnold, Terry G.
See Donald C. Raney, PO1:May 73:139:9707

Arockiasamy, Madasamy
Dsc, with S. Sridharan, ST1:Jan 73:206:9462, of "Optimal Design of Prestressed Concrete Poles", ST1:Jan 72:61:8632

Aron, Gert
Dynamic Programming for Conjunction Water Use, with Verne H. Scott, HY5:May 71:705:8145
    TR:137:337
Dsc, IR1:Mar 69:254:6428, of "Optimal Timing of Irrigation", IR2:June 68:267:5993

Aroni, Samuel
Slender Prestressed Concrete Columns, ST4:Apr 68: 875:5886
    Dsc: Robert F. Warner, ST2:Feb 69:273:6373; Anatol A. Eremin, ST4:Apr 69:761:6486
    Clo: ST11:Nov 69:2508:6867
    TR:135:505

Aronovici, Vladimir S.
Basin Recharge of the Ogallala Aquifer, with Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65: 8760
    TR:138:104

Arora, Harpal S.
See Edward D. Graf, PES:73:III-105

Arora, Jasbir S.
Inverse Problem of Structural Optimization, TN: ST11:Nov 74:2355:10904

Arp, Vincent D.
Superconducting Levitation of High Speed Vehicles, with Alan F. Clark and Thomas M. Glynn, TE4: Nov 73:873:10163
    TR:139:538

Arpin, Oscar E.
Tidal Inlet Problems Along the New England Coast, 12CEC:71:1171

Arsham, Amirikian
Lift Dock Combines Drydock and Transfer Platform, CE:July 71:37
    TR:137:446

Arthur, Harold G.
New Design Criteria for USBR Penstocks, with John J. Walker, PO1:Jan 70:129:7034
    Dsc: Charles F. Corns, PO1:Jan 71:248:7784; George E. Day and Horace S. Beckner, PO1: Jan 71:250:7784; Robert W. Mikitka and Joel H. Trammell, PO1:Jan 71:252:7784; Malcolm N. Stephens, PO1:Jan 71:253:7784; Alberto Mosseri and Carlos S. Ospina, PO1:Jan 71:255: 7784; Mircea S. Vasilescu, PO1:Jan 71:256:7784
    Clo: PO3:July 71:715:8256
    TR:136:939
Proposed Third Power Plant at Grand Coulee Dam, PO1:Mar 67:15:5148
    Dsc: Frank M. Wilson and Philip E. Richardson, PO1:May 68:108:5921
    Clo: PO2:Nov 68:236:6201
    TR:135:353
Transporting Equipment for Grand Coulee Third Plant, PO2:Nov 68:125:6226
    Errata: PO1:Jan 71:222:7784
    TR:135:289

Arthur, Paul
Information System in Transportation Facilities, MTI: May 72:99

Artz, Nicholas S.
See Gerald A. Neely, CE:Oct 72:72

Arulanandan, Kandiah
Electrical Dispersion in Relation to Soil Structure, with Scott S. Smith, SM12:Dec 73:1113:10235
    TR:139:527
See James K. Mitchell, SM2:Mar 68:447:5853
See Chih-Kang P. Shen, SM1:Jan 73:95:9510
See Arunachalan Sargunam, TN: HY3:Mar 73:555: 9609

Arup, O. N.
Sydney Opera House, with Gerd J. Zunz, CE:Dec 71:50
    TR:137:835

Arya, Anand S.
Free Vibration Characteristics of Shell Roofs, with Shashi K. Thakkar, EM1:Feb 71:109:7929
    Errata: Shashi Thakkar, EM6:Dec 71:1743:8551
    TR:137:110
Vibration Analysis of Thin Cylindrical Containers, with Shashi K. Thakkar and Atul C. Goyal, EM2: Apr 71:317:8010
    Dsc: Geoffrey B. Warburton and John Higgs, EM6:Dec 71:1743:8551; William E. Stillman, EM1:Feb 72:261:8680
    Clo: EM5:Oct 72:1301:9221
    TR:137:672

Asano, Takashi
Leaching of Pollutants from Wood-Chip Slurry, with Alan T. Towlerton and Robert L. Sanks, EE4:Aug 74:855:10707

Asbeck, Thomas A.
Tellurometer Ground Swing Over Ice Surface, with James L. Clapp, SU1:May 71:53:8149
TR:137:43

ASCE-IABSE Joint Committee on Tall Buildings
Foreword, TB:73:C-P-229

Aschoff, Alroy F.
Considerations in Design of Air Monitoring Network, PO1:Mar 69:119:6475
TR:135:28

Ash, James L.
Subsurface Investigation System Planning for Highway Tunnels, with Bruce E. Russell and Robert R. Rommel, EFSE:Aug 74:97

Ashby, D. J.
Dsc, with F. Sherratt, ST10:Oct 69:2322:6803, of "Cumulative Damage Theories and Application", ST12:Dec 68:2739:6290

Ashford, Norman
Time Stability of Zonal Trip Production Models, with Frank M. Holloway, TE4:Nov 72:799:9362
TR:138:535
Variations of Urban Travel Characteristics with Age, with Frank M. Holloway, TE3:Aug 72:715:9124
TR:138:385

Ashton, George C.
Hydraulically Actuated Vertical Lift Bridge, CE:Oct 69:38
TR:135:928

Ashton, George D.
Ripples on Underside of River Ice Covers, with John F. Kennedy, HY9:Sept 72:1603:9191
Dsc: Frederick A. Locher and Touvia Miloh, HY7:July 73:1187:9823
Clo: HY3:Mar 74:479:10379
TR:139:94
Dsc, HY11:Nov 73:2142:10109, of "Stability of Floating Ice Blocks", HY12:Dec 72:2117:9418
See John F. Kennedy, HY1:Jan 74:1:10281

Ashton, William D.
H-Bearing Piles in Limestone and Clay Shales, with Paul H. Schwartz, GT7:July 74:787:10667

Askar, Attila
See Burak Erman, TN: GT12:Dec 74:1321:10981

Askew, Arthur J.
Variation in Lag Time for Natural Catchments, HY2: Feb 70:317:7051
TR:136:473
Dsc, with William Wen-Gong Yeh, SA3:June 70:854: 7313, of "Economic Measure of Effect of Extreme Data", SA4:Aug 69:683:6720

Aslam, Mohammad
See William G. Godden, EM1:Feb 73:201:9576

Asmis, Kurt G.
Dsc, ST11:Nov 73:2331:10113, of "Stability of Guyed Towers", ST4:Apr 73:741:9683

Asmussen, Loris E.
See Willard M. Snyder, IR3:Sept 72:405:9213
See Walter J. Rawls, IR3:Sept 73:375:10013

Aspden, J. A.T.
See Peter Ackers, WAVES:Sept 74:523

Asplund, S. Olof
Dsc, ST10:Oct 71:2623:8411, of "Experimental Study of Lateral Buckling of Arches", ST2:Feb 71:545: 7893

Asrow, Sherwin P.
Construction Systems, Theme Report, TB:73:Ia-4-661
See Edwin Paul Swatek, Jr., PES:72:I-1303

Asthana, Krishna C.
Transformation of Moody Diagram, HY6:June 74: 797:10624
Dsc: James J. Sharp, HY1: :11038

Atakol, Kenan
Dynamic Shearing Resistance of Dry Ottawa Sand, with H. Gordon Larew, SM2:Mar 70:705:7186
Errata: SM1:Jan 71:258:7785
TR:136:902

Ateshian, John K.H.
Estimation of Rainfall Erosion Index, IR3:Sept 74: 293:10817

Atkins, R. S.
Optimum Housing Allocation Model for Urban Areas, with Edward M. Krokosky, UP1:Apr 71:41: 8022
TR:137:886

Atkinson, Geo. H.
Panel on Owner-Engineer-Contractor Economic Considerations in Dam Construction, ECCD:72:483

Atsuta, Toshio
See Wai F. Chen, ST5:May 72:1035:8902
See Wai F. Chen, ST7:July 72:1413:9020
See Wai F. Chen, ST3:Mar 73:469:9613
See Wai F. Chen, EM4:Aug 73:685:9957

Atterbury, Thomas J.
See Everett C. Rodabaugh, UPC:Apr 71

Attewell, Peter B.
Stability of Discontinuous Rock Masses Under Polyaxial Stress Systems, with John P. Woodman, RM13:72:665

Atwell, James S.
See Otis J. Sproul, NSCD:71:385

Atzori, Bruno
Impact and Wave Propagation in Composite Plates, with Richard B. Nelson, EM3:June 74:599:10620

Au, Tung
Building Construction Games-General Description, with Ernest W. Parti, CO1:July 69:1:6645
Dsc: Graham Cullingford and David Scott, CO1: June 70:85:7308
Clo: CO1:Mar 71:165:7939
TR:136:15
Civil Engineering in Health Care Systems, PP1:Oct 71:87:8470
TR:137:1029
Construction Management Game-Deterministic Model, with Richard L. Bostleman and Ernest W. Parti, CO1:July 69:25:6647
TR:135:240
Project Planning Game for Foundation Excavation, with Ernest W. Parti, CO1:July 69:11:6646
Dsc: John D. Bristor, CO1:June 70:86:7308
Clo: CO1:Mar 71:165:7939
TR:136:152
A Systems Approach to Hospital Planning and Design, with Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286
TR:138:592
See Andrew K.C. Wong, EC5:70:155
See Andrew K.C. Wong, ST1:Jan 71:115:7822

Aubert, Eugene J.
Potential of Precipitation Modification, with Gurbachan P. Malhotra and D. B. Spiegler, IR1: Mar 72:49:8787
TR:138:212

Aude, T. C.
See E. J. Wasp, TE2:Apr 71:271:8106

Auerbach, John
Public and Legislative Support for Bikeways, BP73: Dec 73:20

Augusti, Giuliano
Dsc, EM4:Aug 69:1008:6705, of "Collapse of Yielding Structures During Earthquakes", EM5:Oct 68:1045:6154

Aure, William W.
See Shoju Fukuoka, HY1:Jan 73:195:9479

Austin, Garry H.
Multilevel Outlet Works at Four Existing Reservoirs, with Donald A. Gray and Donald G. Swain, HY6: Nov 69:1793:6877
TR:136:246
Review of Spillway Adequacy at Existing Bureau of Reclamation Dams, IMROD:Sept 73:382

Austin, John H.
See Irvine Wen-Tung Wei, SA1:Feb 69:1:6384

Austin, Lloyd H.
Outlet Transitions with Triangular-Shaped Baffles, with Gaylord V. Skogerboe and Ray S. Bennett, IR3:Sept 71:433:8366
TR:137:611
See Gaylord V. Skogerboe, IR3:Sept 70:309:7542
See Gaylord V. Skogerboe, HY2:Feb 71:362:7863
See Gaylord V. Skogerboe, HY6:June 73:921:9799

Austin, T. A.
Role of ASCE Student Chapters in Engineering Education, with J. J. Valenta, CEE:Feb 74:1-980

Austin, Walter J.
Free Vibration of Arches Flexible in Shear, with Anestis S. Veletsos, EM4:Aug 73:735:9913
Errata: EM4:Aug 74:818:10694
TR:139:392
In-Plane Bending and Buckling of Arches, ST5:May 71:1575:8130
Dsc: Robert Schmidt and Donald A. DaDeppo, ST1:Jan 72:373:8623; Kevin Forrester, ST1:Jan 72:378:8623
Clo: ST7:July 72:1670:9003
TR:137:623
See Anestis S. Veletsos, EM2:Apr 72:311:8806

Avent, R. Richard
Nonlinear Field Analysis of Structural Nets, ST5: May 69:889:6556
Dsc: John McCormick and Joseph P. Wright, ST3:Mar 70:729:7116
Clo: ST10:Oct 70:2229:7570
TR:136:72
See Donald L. Dean, TN: ST8:Aug 72:1903:9086

Averkiev, A. G.
Hydraulic Modeling of Stratified Flows, with K. Ya. Kind, ISSF:Aug 72:485

Avram, Constantin N.
General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, with Decebal M. Anastasescu, TB:73:III-20-67
Problems in Analysis, with Decebal M. Anastasescu, TB:73:III-20-131
Research Regarding the Interaction of Shear Walls and Frames, with Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318

Awad, Amin A.
See Abdelwahab M. Amer, TN: GT12:Dec 74:1309: 10981

Awan, Nazar M.
Moving Water Tables in Tile-Drained Soils, with Terence O'Donnell, IR3:Sept 72:459:9167
TR:138:411

Awasthy, Subhash Chandra
See Kanakatti Subramanya, HY12:Dec 70:2635:7711
See Kanakatti Subramanya, HY1:Jan 72:1:8627

Axthelm, Deon
Dsc, IR2:June 73:194:9761, of "General Statement of Principles to be Included in State Water Rights Laws", IR2:June 72:317:8996

Ayala, Giovanni F.
See Marlyn E. Clark, EM5:Oct 69:1189:6854

Ayer, Francois N.
Grid Moment Maximization by Mathematical Programming, with C. Allin Cornell, ST2:Feb 68: 529:5818
Dsc: Reza Razani, ST1:Jan 69:120:6325; Andrew C. Palmer, ST1:Jan 69:123:6325
Clo: ST1:Jan 70:126:6990
TR:135:344

Ayoub, George M.
Dsc, HY12:Dec 74:1833:10974, of "Buoyant Jets with Three-Dimensional Trajectories", HY11:Nov 72:1999:9378

Aysto, Pentti
See Sriramulu Vinnakota, ST6:June 72:1334:8930
See Sriramulu Vinnakota, ST11:Nov 74:2235:10919

Azad, Abdul K.
See Michael S. Troitsky, ST9:Sept 72:1987:9168

Azpurua, Omar
See Juan B. Font, 12CEC:71:2243

Babb, Alan F.
Air Flow in Combined Intake and Shaft Spillway, with Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859
Dsc: Fred W. Blaisdell, HY8:Aug 74:1172:10696
TR:139:332
Performance Characteristics of Siphon Outlets, with William K. Johnson, HY6:Nov 68:1421:6237
Dsc: Bahaddur S. Rajeevalochanam and Nagar S. Lakshmana Rao, HY5:Sept 69:1759:6784
Clo: HY4:Apr 70:1043:7189
TR:135:254

Babbitt, Donald H.
See Elmer W. Stroppini, SM10:Oct 72:1073:9274

Babcock, Burt A.
A Water Spreading and Well Field Water Supply System, IRS:Sept 72:225

Babcock, Henry A.
Dsc, with Samuel Shaw, HY6:Nov 67:442:5543, of "Heterogeneous Flow of Solids in Pipelines", HY3: May 67:145:5244
See Robert R. Faddick, HY5:May 71:745:8081

Babicki, Bogue B.
Cables Support Office Building, CE:Oct 71:64
Dsc: George W. Housner and Paul C. Jennings, CE:Feb 72:72
Clo: Bogue Babicki, CE:Feb 72:72
TR:137:627

Bach, Ira J.
A Program For New Towns, UP1:Apr 71:55:8059
Dsc: V. Setty Pendakur and Henry Ropertz, UP2: Dec 71:246:8558
Clo: UP1:July 72:107:9005
TR:137:727

Bacher, Alfred E.
Dsc, ST9:Sept 70:1970:7567, of "Structural Behavior of Concrete Arch Culvert", ST12:Dec 69:2665:6942
See Raymond Eugene Davis, ST11:Nov 72:2329: 9325
See Raymond Eugene Davis, ST3:Mar 74:599:10404
See Raymond Eugene Davis, ST3:Mar 74:615:10408

Back, William
Carbon-14 Ages Related to Occurrence of Salt Water, with Bruce B. Hanshaw and Meyer Rubin, HY11:Nov 70:2325:7702
TR:136:1297

Backlund, Jan
Dsc, EM6:Dec 72:1603:9390, of "Finite Element Method for Elastic Plastic Plates", EM1:Feb 72: 227:8724

Backus, Eugene S.
New Municipal Incinerator Defeats Pollution/ Corrosion Problems, CE:Dec 71:48
TR:137:782

Bacon, Vinton W.
New Trends in Tertiary Treatment, with Tom H. Forrest, CWFE:Mar 71:185
Rock Tunnels to Control Pollution and Flooding, with William T. Painter, URC:72:115
See Ben Sosewitz, CE:Nov 69:34

Bader, Richard G.
Mineral Scavenging and Marine Pollution, CEO-II: 70:1

Badoux, John C.
See Sriramulu Vinnakota, ST6:June 72:1334:8930

Baecher, Gregory B.
Dsc, GT10:Oct 74:1170:10838, of "Uncertainty, Safety, and Decision in Soil Engineering", GT3: Mar 74:329:10434

Baer, Oliver A.
Double Overlap Beam, ST11:Nov 72:2541:9345
TR:138:542

Baerwald, John E.
Operation and Maintenance of Campus Bicycle Facilities, BP73:Dec 73:167

Bagchi, Debal K.
See Kenneth C. Rockey, ST12:Dec 72:2739:9409

Baghdadi, I.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-521

Bagish, B. P.
Dsc, ST6:June 71:1810:8159, of "Model of Natural Draft Cooling Tower Performance", SA4:Aug 70: 927:7461
Dsc, ST3:Mar 72:767:8752, of "Large Deflections of Curved Plates", ST4:Apr 71:1143:8045

Baguelin, Francois
Expansion of Cylindrical Probes in Cohesive Soils, with Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129:9377
Dsc: Robert Alperstein, SM10:Oct 73:893:10038
Errata: SM9:Sept 73:725:9963
TR:139:175
The Self-Boring Placement Method of Soil Characteristics Measurements, with Jean-Francois Jezequel and Alain LeMehaute, EFSE:Aug 74:312

Bagwell, Marshall U.
Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, CE:Feb 73:45
TR:139:65
Pipeline Transportation in the 70's, TE1:Feb 73:5: 9539
TR:139:145

Bahadur, A. P.
See K. G. Ranga Raju, HY5:May 71:738:8081

Bahar, Leon Y.
Transfer Matrix Approach to Layered Systems, EM5: Oct 72:1159:9248
TR:138:479

Bahattacharya, P. K.
Dsc, with J. Glover and John F. Kennedy, HY1:Jan 69:6323, of "Field Test of an X-ray Sediment-Construction Gage", HY2:Mar 68:515:5868

Baier, Dwight C.
Undesirable Plant Responses with Sewage Irrigation, with Wilton B. Fryer, IR2:June 73:133:9783
Dsc: Ralph L. Toren, IR1:Mar 74:96:10380
Clo: IR3:Sept 74:393:10771
TR:139:313

Bailey, George F.
Dsc, with John C. Sonnichsen, Jr., PO1:June 72:175: 8927, of "Cooling Pond Temperature Versus Size and Water Loss", PO3:July 71:589:8250

Bailey, George W.
Dsc, SA4:Aug 71:533:8269, of "Adsorption of Pesticides by Clay Minerals", SA5:Oct 70:1057: 7603

Bailey, John J., Jr.
Dsc, with Henry M. Reitz, SM5:Sept 70:1810:7499, of "Building Damage From Expansive Steel Slag Backfill", SM6:Nov 69:1325:6879
Dsc, with Henry M. Reitz, PISST:71:249, of "Building Damage from Expansive Steel Slag Backfill", PISST:71:235

Bailey, Thomas E.
Distribution of Pesticides in California, with John R. Hannum, SA5:Oct 67:27:5510
Dsc: Paul H. King, SA2:Apr 68:444:5876; Loren E. Blakely and Richard D. Pomeroy, SA3:June 68:563:5965; Max Blakeley, SA3:June 68:565: 5965; Thomas A. Tamblyn and Louis A. Beck, SA4:Aug 68:728:6049
Clo: SA4:Aug 69:771:6706
TR:135:430
Estuarine Oxygen Resources-Photosynthesis and Reaeration, SA2:Apr 70:279:7215
TR:136:517
Dsc, SA2:Apr 70:633:7190, of "Fluorometer Calibration Curves and Nomographs", SA4:Aug 69: 705:6728
Dsc, SA3:June 71:380:8157, of "Water Quality Control in California", SA4:Aug 70:873:7448

Baillie, David G., Jr.
Memoir of, TR:137:1052

Baillod, C. Robert
Mass Transfer Limitations in Substrate Removal, with William C. Boyle, SA2:Apr 70:525:7239
TR:136:891

Baines, W. Douglas
See C. F.M. Twigge-Molecey, EM4:Aug 73:803:9904

Baird, Ralph W.
See Walter G. Knisel, HY2:Feb 70:497:7084

Baird, W. F.
See J. R. Wilson, CE13:72:I-113

Bajorunas, L.
Littoral Transport and Energy Relationships, 12CEC: 71:787

Baker, A. L.L.
Fully Plastic Analysis and Design, State-of-Art Report 4, TB:73:III-22-415

Baker, Charles
Introduction to Section IV: Transportation Innovation -- Directions and Strategy, UTI:71:325

Baker, Clyde N., Jr.
Caisson Construction Problems and Correction in Chicago, with Fazlur R. Khan, SM2:Feb 71:417:7934
Dsc: Dalim K. Majumdar, SM8:Aug 71:1136:8270; Robert F. Legget, SM9:Sept 71:1347:8347
Clo: SM4:Apr 72:426:8801
TR:137:610
Dsc, SM2:Mar 70:771:7115, of "Settlement of Building on Deep Compressible Soil", SM3:May 69:769:6547
See Robert D. Holtz, PES:72:I-1223

Baker, Edwin
The New City of Columbia, Md., CE:Sept 70:57
TR:136:715

Baker, Gerald L.
ASCE Minority Programs, CE:Aug 73:54
TR:139:348
ASCE's Response to the Changing Times, CE:Feb 70:82
Looking Back, CE:Dec 70:69
Professional Development for Consulting Engineers, PP1:Jan 72:49:8662
TR:138:166
See Wm. Campbell Graeub, CE:May 69:39
See Douglas C. Moorhouse, SM4:July 69:985:6656
See Douglas C. Moorhouse, PISST:71:379

Baker, James R.
Adjusting Radial Surveys, SU2:Nov 72:157:9335
TR:138:501

Baker, John M.
Recent Approaches for Trickling Filter Design, with Quintin B. Graves, SA1:Feb 68:65:5798
Dsc: Chester J. Ordon, SA3:June 68:579:5965; Srinivasalu Balakrishnan and W. Wesley Eckenfelder, Jr., SA1:Feb 69:185:6372
Clo: SA6:Dec 69:1181:6931
TR:135:496
Dsc, with Quintin B. Graves, EE5:Oct 74:1190:10836, of "Design Optimization for Biological Filter Models", EE6:Dec 73:831:10191

Baker, Raphael
See Gabriel Kassiff, SM3:Mar 71:529:7951

Baker, Robert F.
Access to Airports: Basic Policy Development Issues, TE3:Aug 69:521:6748
TR:135:1016
Engineering Policies, Politics, and Pragmatism, TE1:Feb 74:121:10320
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, PP4:Oct 72:563:9287
TR:138:599
Policy Development--An Emerging Role for Civil Engineers, PP1:Oct 71:35:8478
TR:137:834
Technology and Decisions in Airport Access, with Raymond M. Wilmotte, 1970, 152 pp.
TR:135:1099
Transportation Research Needs in Civil Engineering, TE3:Aug 71:541:8343
Dsc: Melvin W. Jackson, TE1:Feb 72:156:8685
Clo: TE4:Nov 72:9309
TR:137:830
The Use of Underground Space to Achieve National Goals, UNSANS:73, 335pp.
TR:139:415

Baker, Robert J.
Engineering Considerations in Disinfection, NSCD:71:683

Baker, Susan P.
Problems in Assuring the Safety of Pedestrians, BP73:Dec 73:364

Baker, Wallace H.
Mohr-Coulomb Strength Theory for Anisotropic Soils, with Raymond J. Krizek, SM1:Jan 70:269:7015
TR:136:442
See Raymond J. Krizek, IR3:Sept 69:409:6785

Baker, Warren J.
Doctoral Education and the Practicing Professional, with Edward J. Rhomberg, CEE:Feb 74:1-764

Bakke, Harold P.
Staggered Truss Building System, with Lawrence A. Kloiber and Albert C. Nuhn, CE:Nov 69:56
TR:135:787

Bakken, Asbjern
Dsc, CE:Aug 70:68, on Shotcrete Support in Rock Tunnels in Scandinavia, CE:Jan 70:72

Bakker, C. T.J.
See J. Witteveen, TB:73:II-15-386

Bakker, W. T.
The Dynamics of a Coast with a Groyne System, with E. H.J. Klein Breteler and A. Roos, 12CEC:71:1001
The History of the Dutch Coast in the Last Century, with D. Sj. Joustra, 12CEC:71:709

Balachandran, Gunaratnam
Hydrodynamic Pressures in Stratified Reservoir, with Tharakkal E. Unny and David S. Weaver, TN:EM4:Aug 73:912:9898

Baladi, George Y.
Dsc, with William H. Perloff, SM1:Jan 69:431:6324, of "Body-Force Stresses in Gravity Structures", SM1:Jan 68:205:5749

Baladi, Sam G.
Dsc, CE:Oct 72:66, on Corps of Engineers Plans Regional Water Quality Program, CE:Mar 72:37

Balakrishnan, Srinivasalu
Nitrogen Removal By Modified Activated Sludge Process, with W. Wesley Eckenfelder, Jr., SA2:Apr 70:501:7236
TR:136:901
Dsc, with W. Wesley Eckenfelder, Jr., SA1:Feb 69:185:6372, of "Recent Approaches for Trickling Filter Design", SA1:Feb 68:65:5798

Balakrishna Rao, H. A.
See Kaare Hoeg, SM2:Mar 70:429:7138

Balbiani, Andrew S.
Proposals for Gaining Acceptance for Gaining Acceptance for Urban Freeways, with Richard J. Naish and Daniel M. Reisner, TE4:Nov 70:585:7672
TR:136:1278

Balch, Norval
Marine Monitoring of the Victoria Sewerage System, with Derek V. Ellis and Jack L. Littlepage, CE13:72:III-2117

Baldin, V. A.
Determination of Stresses in Columns of Steel Framed Tall Buildings, TB:73:C-AC17-131

Baldur, Roman
Structural Optimization by Inscribed Hyperspheres, EM3:June 72:503:8934
TR:138:242

Baldwin, Glenn S.
Truck escape lanes on mountain roads, CE:July 74:64

Baldwin, John R.
Causes of Delay in the Construction Industry, with James M. Manthei, Harold Rothbart and Robert B. Harris, CO2:Nov 71:177:8501
Dsc: Harry D. Lovering, CO2:Sept 72:359:9155
Clo: CO1:July 73:206:9822
TR:139:41

Baliga, Kalyanpur Y.
See John T. O'Connor, SA6:Dec 70:1377:7767

Ball, David J.
Simulation of Piers in Hydraulic Models, WW1:Feb 74:23:10313

Ball, Henry F., Jr.
Dsc, CE:Sept 73:31, on "Quo Vadis, ASCE?", CE: June 73:59

Ball, James W.
Cavitation in Butterfly Valves, with J. Paul Tullis, HY9:Sept 73:1303:9993
Errata: HY4:Apr 74:620:10441
TR:139:364
See Robert A. Robertson, HY7:July 71:889:8229

Ball, John E.
Environmental Engineering Education -- An Employer's View, with John B. Malouf, CEE:Feb 74:1-426

Ball, Robert E.
Computer Analysis of Buckling of Imperfect Shells, with Bruce A. Ryan, ST10:Oct 73:2097:10072
TR:139:486
Dsc, EM5:Oct 71:1584:8406, of "Response Computation Using Truncated Taylor Series", EM2:Apr 71:295:8019
See Charles C. Cromer, EM3:June 71:657:8187

Ball, William E., Jr.
Three-Dimensional Forward and Inverse Computations, SU2:Nov 72:167:9361
Errata: SU1:Sept 73:146:9965
TR:139:350
Three-Dimensional Intersection-- A Vector Approach, SU1:Sept 73:63:10030
TR:139:530
Three-Dimensional Positioning—by Multilateration, SU1:May 74:63:10524
Three-Dimensional Resection--A Vector Approach, SU1:Sept 73:87:10007
TR:139:444

Balla, Arpad
See Dafalla A. Turabi, SM1:Jan 68:291:5769
See Dafalla A. Turabi, SM6:Nov 68:1271:6228

Balloffet, Armando
Dam Collapse Wave in a River, with Eric Cole and Armando F. Balloffet, HY5:May 74:645:10523
One-Dimensional Analysis of Floods and Tides in Open Channels, HY4:July 69:1429:6695
TR:135:13
Dsc, HY3:May 68:804:5920, of "Tidal Velocities Across A Partly-Completed Barrage", HY5:Oct 67: 85:5427
Dsc, IR3:Sept 68:357:6088, of " Rectangular Cutthroat Flow Measuring Flumes", IR:Dec 67:1: 5628
Dsc, with Robert H. Jankowski, HY10:Oct 70:2135: 7568, of "Numerical Method of Computing Flow Profiles", HY1:Jan 70:75:7005

Balloffet, Armando F.
See Armando Balloffet, HY5:May 74:645:10523

Balsara, Jimmy P.
Blast Loaded Buried Arches, EM1:Feb 70:1:7058
TR:136:478

Balsillie, J. H.
State of Groin Design and Effectiveness, with Dennis W. Berg, CE13:72:II-1367

Balter, Robert B.
Residential Community Features Novel Dam and Sewer, CE:May 73:46
Dsc: Jacob S. Parker, Jr., CE:July 73:28
TR:139:198
Dsc, 4PCSM:72:III131, of "Slope Stability in Residual Soils", 4PCSM:71:187

Baltosser, R. W.
See John I. Myung, RM13:72:31

Baltzer, Robert A.
Computer Simulation of Unsteady Flows in Waterways, with Chintu Lai, HY4:July 68:1083: 6048
Dsc: Jean Andre Cunge, HY2:Mar 69:758:6433
Clo: HY2:Feb 72:383:8681
TR:135:655

Baluch, Mohammed H.
Finite Element Approach to Plane Microelasticity, with John E. Goldberg and Severino L. Koh, ST9: Sept 72:1957:9203
TR:138:461

Bamford, R. M.
See Robert J. Melosh, ST4:Apr 69:661:6510

Banavalkar, Prabodh V.
Analysis of Thin-Steel Hyperbolic Paraboloid Shells, with Peter Gergely, ST11:Nov 72:2605:9356
TR:138:557

Bandel, Hannskarl
Composite Cores and Columns, TB:73:Ia-3-632
Structural Systems for Very Tall Buildings, TB:73:Ia-3-627

Bandy, Martin A.
See T. J. Chung, TN: EM4:Aug 71:1315:8273

Bandyopadhya, M.
See V. Raman, SA6:Dec 69:1013:6950

Bandyopadhyay, K. K.
Dsc, WW2:May 73:281:9694, of "Mathematical Model of River Hooghly", WW2:May 72:225:8866
See Amarendra N. Biswas, HY1:Jan 71:175:7783

Bandyopadnyay, M.
Synthetic Storm Pattern and Run-off for Gauhati, India, HY5:May 72:845:8887
Dsc: Yu-Leuk Choi, HY3:Mar 73:547:9580
Clo: HY11:Nov 73:2128:10109
TR:139:48

Banerjee, Himangsu K.
See Amitabha Ghosal, CO4:Dec 74:631:11034

Banerjee, Kalidas
Dsc, SM2:Feb 71:510:7866, of "Analysis of Circular Footings on Layered Soils", SM4:July 70:1289:7408
Dsc, SM9:Sept 72:961:9158, of "Initial Settlement of Structures on Clay", SM10:Oct 71:1359:8438

Banerjee, S. P.
An Analysis of Elliptic-Paraboloid Shell, ST10:Oct 68:2213:6151
Clo: ST8:Aug 69:1771:607
TR:135:766

Banerji, Shankha K.
Dsc, SA3:June 69:672:6582, of "Validity of Energy Change as a Growth Parameter", SA2:Apr 68:193: 5881
Dsc, SA4:Aug 69:781:6706, of "Problems of Toxicity Measurements in Activated Sludge", SA2:Apr 68: 247:5894
Dsc, SA6:Dec 69:1191:6931, of "Dynamic Model of the Anaerobic Digestion Process", SA1:Feb 69:95: 6418
Dsc, with C. Michael Robson, EE6:Dec 74:1283: 10971, of "Sewage Chlorination Versus Toxicity -- A Dilemma?", EE6:Dec 73:761:10190

Bankofier, Duane E.
See John D. Jenkins, PES:72:I-723

Banks, Don C.
Study of Clay Shale Slopes, RM13:72:303
Dsc, with Bruce N. Mac Iver, SM5:May 71:791:8083, of "Review of Shearing Strength of Rockfill", SM4:July 70:1159:7394

Banks, Harvey O.
Dsc, WW4:Nov 68:516:6204, of "Preservation of Estuaries by Tidal Inlets", WW4:Nov 67:133:5583

Bansal, Mahendra K.
Dispersion in Natural Streams, HY11:Nov 71:1867:8540
  Dsc: Y. Lam Lau, HY5:May 72:963:8859; Edward R. Holley, HY6:June 72:1089:8925; Richard G. Warnock and Tagadur P. Halappa Gowda, HY12:Dec 72:2231:9391
  Clo: HY6:June 73:980:9760
  TR:139:9

Banys, Ray J.
See Quentin A. Edson, PO1:Jan 71:61:7801

Bara, John P.
Investigation of Earth Dam Foundations, EFSE:Aug 74:381

Baracos, A.
See C. Vogel, SM11:Nov 73:1016:10112

Barata, Fernando Emmanuel
The Allowable Settlement and the Design of Foundations, 4PCSM:71:II197

Baratta, Alessandro
A Remark on the Probabilistic Analysis of Structural Safety, TB:73:Ib-10-1039

Barazzoni, Glauco
See Pericle Quadrio Curzio, SUSS:July 73:79

Barbarossa, Nicholas L.
State Viewpoint on River Basin Planning, WW2:May 68:217:5955
  Dsc: Roy F. Bessey, WW4:Nov 68:533:6204
  Clo: WW2:May 69:221:6928
  TR:135:736
See Gerald T. McCarthy, HY2:Mar 68:375:5841

Barber, James C.
See Francis E. Gartrell, SA6:Dec 70:1321:7761

Barber, Russell B.
See Garrison Kost, ST4:Apr 74:743:10481

Barbrow, L. E.
Metrication in the United States, a Status Report, PP4:Oct 72:505:9276
  TR:138:555

Barcelo, Julio Patriarca
Experimental Study of the Hydraulic Behaviour of Inclined Groyne Systems, 12CEC:71:1021

Barclay, D. E.
See J. T. Gilchrist, PO2:Nov 68:161:6230

Barden, Laing
Engineering Behavior and Structure of Compacted Clay, with Geoffrey R. Sides, SM4:July 70:1171:7397
  Dsc: N. Keith Tovey, SM4:Apr 71:694:8014; J. G. Cabrera and I. J. Smalley, SM5:May 71:802:8083; A. David Alcott and Norbert O. Schmidt, SM5:May 71:803:8083
  Clo: SM12:Dec 71:1708:8556
  TR:137:50
Time Dependent Deformation of Normally Consolidated Clays and Peats, SM1:Jan 69:1:6337
  Dsc: Mei Ban Lo, SM1:Jan 70:317:6989; Leonard K. Walker, SM1:Jan 70:319:6989; E. T. Hanrahan and P. X. Goodwin, SM1:Jan 70:321:689
  Clo: SM9:Sept 71:1337:8347
  TR:136:1055
Volume Change Characteristics of Unsaturated Clay, with Anthony O. Madedor and Geoffrey R. Sides, SM1:Jan 69:33:6338
  TR:135:935
Dsc, with Trevor J. Poskitt, SM1:Jan 69:406:6324, of "General Stress-Strain-Time Function for Soils", SM1:Jan 68:21:5728
See Peter W. Rowe, SM1:Jan 69:353:6324
See Peter W. Rowe, SM1:Jan 69:439:6324

Bardoff, Julian L.
Inspection, Maintenance and Remedial Treatment: San Francisco Water Department, with Paul T. Matsumura, IMROD:Sept 73:849

Barenberg, Ernest J.
Book Review: Design of Functional Pavements, CE:Apr 73:40

Barford, Jeromy C.
Dsc, UP1:Mar 70:100:7119, of "Accessibility and Environmental Quality", UP1:Apr 69:43:6518

Barge, Daniel B., Jr.
New ASCE Officers Installed in Sansas City: 1974, CE:Oct 74:92

Bargman, Robert D.
How Urgent the Need to Recycle Solid Waste, CE:Sept 72:107
  Dsc: M. J. Mighdoll, CE:Nov 72:67; Wallace E. Strikney, CE:Dec 72:31; Finley B. Laverty, CE:Jan 73:59; Bernard L. Weiner, CE:Jan 73:63
  TR:138:434
Water Reclamation in Los Angeles, with George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204
  Errata: EE5:Oct 74:1191:10836
  TR:139:500

Barker, Bruce
Dsc, with Gerald D. Seinwill, WW4:Nov 70:874:7645, of "Problems of Inland Waterway Lock Dimensions", WW2:May 70:451:7295
Dsc, with Gerald D. Seinwill, SA1:Feb 71:124:7865, of "Total Dollar Benefit of Water Pollution Control", SA3:June 70:665:7323

Barker, Paul E.
Cubic Interpolation For Numerical Flood Routing, with Thomas P. Propson, TN: HY1:Jan 72:309:8617

Barker, Richard M.
Joint Effects in Bedded Formation Roof Control, with Fritz Hatt, RM14:73:247
Stress Concentrations Near Holes in Laminates, with Jon R. Dana and Charles W. Pryor, Jr., EM3:June 74:477:10590
See Charles W. Pryor, Jr., EM6:Dec 70:967:7760

Barker, Walter R.
See James P. Sale, SM12:Dec 73:1077:10240

Bar-Kochba, Yoseph
Factors Affecting Floods from Small amd Large Watersheds, with Andrew L. Simon, IRS:Sept 72:87

Barloon, Marvin J.
Dsc, TE2:May 70:244:7251, of "Economic Location of Locks", TE1:Feb 69:77:6397

Barnes, Albert H.
See Shih-Tun Su, HY11:Nov 70:2185:7650

Barnes, George D.
Modification of Major Corridor Location Criteria, TE1:Feb 73:31:9541
TR:139:153

Barnes, James I.
Report of Workshop B's First Session, ECCD:72:329

Barnett, Alistair G.
See Alex J. Sutherland, HY11:Nov 72:1969:9330

Barnett, Jonathan
The Future of Tall Buildings, State-of-Art Report 3A, TB:73:Ia-1-85

Barnett, Joseph
Express Bus Mass Transit, TE2:May 70:133:7256
Clo: TE2:May 71:385:8082
TR:136:830
Dsc, TE3:Aug 72:735:9080, of "The Driver and the Road", TE4:Nov 71:609:8513
Dsc, TE4:Nov 73:964:10110, of "Expressway Rapid Transit", TE4:Nov 72:1023:9388

Barnett, Norman E.
See Richard D. Woods, GT11:Nov 74:1231:10949

Barnett, Ralph L.
Optimum Prestressed Tubular Columns, ST2:Feb 70: 291:7083
TR:136:564

Barnett, Robert O.
See Jesse F. Allred, PO1:May 73:019:9695

Barnett, Stewart C.
Movable Roof for Municipal Pool, CE:Jan 70:61

Barnett, Tim P.
Wave Prediction, PITO:74:11

Barnhart, Edwin L.
Transfer of Oxygen in Aqueous Solutions, SA3:June 69:645:6639
Dsc: Peter Wilderer, SA2:Apr 70:630:7190
Clo: SA6:Dec 70:1439:7713
TR:136:775

Baron, Frank
Inelastic Response for Arbitrary Histories of Loads, with Mahadeva S. Venkatesan, EM3:June 69:763: 6634
TR:135:19
Nonlinear Analysis of Cable and Truss Structures, with Mahadeva S. Venkatesan, ST2:Feb 71:679: 7937
Dsc: John J. Jonatowski and Charles Birnstiel, ST12:Dec 71:2895:8557
TR:137:884
Nonlinear Formulations of Beam-Column Effects, with Mahadeva S. Venkatesan, ST4:Apr 71:1305: 8080
TR:137:901

Baron, Melvin L.
Influence of Constitutive Models on Ground Motion Predictions, with Ivan Nelson and Ivan S. Sandler, EM6:Dec 73:1181:10210
TR:139:513

Barr, David I. H.
Dsc, HY1:Jan 68:333:5703, of "Heterogeneous Flow of Solids in Pipelines", HY3:May 67:145:5244
Dsc, with John F. Riddell, PL1:Oct 68:175:6133, of "Settling Parameter in Solids Pipelining", PL2:July 67:1:5340
Dsc, with John F. Riddell, PL1:Oct 68:182:6133, of "Homogeneous Suspensions in Circular Conduits", PL2:July 67:63:5352
Dsc, with James J. Sharp, HY6:Nov 68:1537:6200, of "Three-Dimensional Density Current", HY6:Nov 67:1:5549

Barr, David J.
Aerospace Technical Applications in Civil Engineering, TE4:Nov 74:959:10945

Barr, Douglas W.
Private Enterprise Aids Public Recreation, IAWM:72: 399

Barrett, Bruce R.
Monitors Solve Fish-kill Mystery, CE:Jan 71:40
TR:137:18

Barrett, J. W. Hugh
Computing Backwater at Open Channel Constrictions, with Gaylord V. Skogerboe, HY7: July 73:1043:9841
Dsc: Verne R. Schneider and Lee A. Druffel, HY5:May 74:705:10505
Clo: HY12:Dec 74:1839:10974
TR:139:316
See Gaylord V. Skogerboe, HY6:June 73:921:9799

Barrett, John R.
Dsc, SM4:July 69:1128:6643, of "Undrained Stress Distribution by Numerical Methods", SM6:Nov 68: 1333:6243

Barrett, Robert J.
See James W. Dunham, WW1:Feb 74:13:10325
See James W. Dunham, CE:Mar 74:70

Barrett, William S.
Dsc, CE:Aug 72:64, on Needed: A National Land Use Policy, CE:May 72:52

Barriage, Joan B.
Benefit-Cost Analysis of Delay Reduction With STOL, with Stanley P.E. Price, TE1:Feb 73:43: 9544
TR:139:159

Barriga, Alfredo
See Clayton T. Crowe, TN: ST8:Aug 74:1745:10723

Barron, Reginald A.
Abutment and Foundation Treatment for High Embankment Dams on Rock, SM10:Oct 72:1017: 9270
TR:138:491
Dsc, PISST:Aug 68:40, of "Foundation Precompression with Vertical Sand Drains", PISST: 71:9
Dsc, SM5:Sept 70:1831:7499, of "Foundation Precompression With Vertical Sand Drains", SM1: Jan 70:145:7019
Dsc, SM5:May 71:822:8083, of "Phreatic Surface Location after Drawdown", SM1:Jan 71:47:7806

Barry, B. Austin
Collective Bargaining on the Campus, PP4:Oct 72: 551:9277
TR:138:563
Surveyor 1984, EI3:July 74:235:10658

Barry, David E.
Dsc, SA6:Dec 69:1208:6931, of "Engineering Aspects of Wastewater Contracts", SA3:June 69: 465:6602

Barry, Robert E.
Computer Model for Thermal Plume, with David P. Hoffman, PO1:June 72:117:8985
Errata: PO1:May 73:259:9690
TR:138:286

Barsoum, Roshdy S.
Dsc, EM2:Apr 70:174:7188, of "Elastic Buckling of Two Component Columns", EM3:June 69:611:6612
Dsc, ST8:Aug 74:1739:10697, of "Linear Stability Analysis of Beam-Columns", ST12:Dec 73:2439: 10232

Bartlett, Albert A.
The Highway Explosion, CE:Dec 69:71
Dsc: Randolph Russell, CE:Apr 70:49; Samuel B. Blumbert, CE:Apr 70:49; John G. Viner, CE: Sept 70:77
TR:135:1051

Bartlett, John V.
Precast Concrete Tunnel Linings for Toronto Subway, with Ted M. Noskiewicz and James A. Ramsay, CO2:Nov 71:241:8498

Bartlett, Lloyd T.
See Paul R. Wolf, SU1:Sept 73:121:10028

Bartlett, Paul E.
See Shen C. Yuan, IR2:June 67:1:5257

Bartley, Thomas R.
Environmental Aspects of Aquatic Plant Control, with Edward O. Gangstad, IR3:Sept 74:231:10810

Barton, Furman W.
Pressurized Tubes Constrained by Rigid Collars, with Thomas H. Dawson, TN: EM3:June 73:9765
The Role of Consulting in Faculty Development, with Fred C. McCormick and Henry L. Kinnier, CEE:Feb 74:1-962
See Robert E. Fulton, EM3:June 71:865:8214

Barton, James R.
Rehabilitation of a Channelized River in Utah, with Parley V. Winger, HYB:Aug 73:1

Barton, Nicholas
Progressive Failure of Excavated Rock Slopes, RM13:72:139

Barton, Robert M.
Prestressed Precast Concrete Railroad Bridges, ST12: Dec 68:2885:6302
Dsc: William G. Byers, ST7:July 69:1592:6644; Anatol A. Eremin, ST9:Sept 69:1993:6755
Clo: ST4:Apr 70:843:7191
TR:135:967

Barton, Thomas G.
Concrete T-Beams Subject to Combined Loading, with D. Wayne Kirk, ST4:Apr 73:687:9655
Dsc: Anil K. Kar, ST11:Nov 73:2330:10113; Madhusudan Chakraborty, ST3:Mar 74:707: 10381
Clo: ST9:Sept 74:1951:10772
TR:139:293

Bartu, Allen S.
Dsc, PO2:Dec 74:213:10976, of "Seismic Design Spectra for Nuclear Power Plants", PO2:Nov 73: 287:10142

Basak, Sanjay
See Amruthur S. Ramamurthy, HY5:May 70:1105: 7257

Basco, David R.
Drag Forces on Baffle Blocks in Hydraulic Jump, with John R. Adams, HY12:Dec 71:2023:8599
Dsc: Hari R. Sharma, HY10:Oct 72:1884:9222
TR:138:72
Flow Field Surrounding a Suction Pipe Inlet, with William J. Apgar, HYB:Aug 73:121
Dsc, HY1:Jan 69:549:6323, of "Profile of the Hydraulic Jump", HY3:May 68:663:5931

Base, Geoffrey D.
Sustained and Fluctuating Loading on Bolted Joints, with Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73:2123:10055
Dsc: Arie Huizer, ST7:July 74:1530:10637
Errata: ST7:July 74:1532:10637
TR:139:474
Dsc, with C. Christopher Simpson, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST12: Dec 71:2920:8557, of "Bolted Joints Under Sustained Loading", ST3:Mar 71:905:7996

Basler, E.
See Niels C. Lind, TB:73:Ib-10-961

Basore, Carl E.
Sand Densification by Piles and Vibroflotation, with Joseph D. Boitano, SM6:Nov 69:1303:6892
Dsc: Sachinder N. Gupta, SM4:July 70:1473: 7385; Eugene A. Miller and Lyle E. Lewis, SM5:Sept 70:1817:7499; George O.N. Reed, SA6:June 71:919:8158
Clo: SM6:June 71:921:8158
TR:136:567
Sand Densification by Piles and Vibroflotation, with Joseph D. Boitano, PISST:71:203
Dsc: Sachinder N. Gupta, PISST:71:224; Eugene A. Miller and Lyle E. Lewis, PISST:71:226; George O.N. Reed, PISST:71:230
Clo: PISST:71:232

Bass, Jim O.
See Bruce R. Laverty, CEE:Feb 74:1-400

Bassett, Day L.
See William E. Hart, IR4:Dec 68:419:6284

Batanero, Juan
Load Factor (Limit States) Design, Theme Report, TB:73:II-19-825

Bates, A. Allan
Low-Cost Housing: Is the Soviet Union's Factory-Made Housing the Answer?, CE:Sept 69:44
Dsc: Robert J. Ritchey, CE:Jan 70:79
TR:135:831

Bates, Robert C.
Shotcrete Safety and Environmental Control, SUSS: July 73:130
Dsc, SUSS:July 73:431, of "Polymer Shotcrete", SUSS:July 73:418
See Sidiq M. Dar, GT2:Feb 74:123:10364

Bates, William F., Jr.
Structural Analysis by Computer Graphics, ST11:Nov 69:2433:6914
TR:136:1099

Bathe, Klaus-Jurgen
Eigensolution of Large Structural Systems with Small Bandwidth, with Edward L. Wilson, EM3:June 73: 467:9782
TR:139:323
Large Eigenvalue Problems in Dynamic Analysis, with Edward L. Wilson, EM6:Dec 72:1471:9433
Dsc: Vernon B. Watwood, EM4:Aug 73:891:9894; Ronald Ian S. Miller and Brian Arthur Radomske, EM5:Oct 74:1041:10837; Alan Jennings and Brian R. Corr, EM5:Oct 74:1043: 10837
Clo: EM5:Oct 74:1044:10837
TR:139:155

Batterman, Steven C.
Buckling of Rings, with Alan I. Soler, TN: EM6:Dec 70:1291:7715
Plastic Stability of Spherical Shells, 1969
TR:135:54

Battjes, Jurjen A.
Refraction of Water Waves, WW4:Nov 68:437:6206
TR:136:637
Run-Up Distributions of Waves Breaking on Slopes, WW1:Feb 71:91:7923
Errata: WW1:Feb 72:103:8686
TR:137:895
Set-Up due to Irregular Waves, CE13:72:III-1992
Dsc, WW2:May 69:241:6528, of "Tide Gage Frequency Response", WW3:Aug 68:317:6072

Bauer, Daniel P.
- Generalized Stream Temperature Analysis System, with Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167

Bauer, Kurt W.
- The Comprehensive Plan in Transportation Planning, TE3:July 70:421:7493
  - Dsc: Robert L. McFall, TE2:May 71:387:8082
  - Clo: TE1:Feb 72:144:8685
  - TR:137:79

Bauer, Sebastian W.
- Free Overfall As Flow Measuring Device, with Walter H. Graf, IR1:Mar 71:73:7987
  - Dsc: M. V. Jagannadha Rao and Nagar S. Lakshmana Rao, IR4:Dec 71:656:8553; Eric Markland, IR4:Dec 71:656:8553; Gershon Kulin, IR1:Mar 72:159:8750; Clifford D. Smith, IR1:Mar 72:162:8750; Charles D. Morris, IR1:Mar 72:164:8750; Pashupati N. Modi, IR1:Mar 72:165:8750
  - Clo: IR3:Sept 72:500:9157
  - TR:138:12
- Dsc, HY5:May 74:707:10505, of "Infiltration and Antecedent Precipitation", HY8:Aug 73:1235:9940

Bauer, William J.
- Dsc, CE:Aug 72:46, on Corps of Engineers Plans Regional Water Quality Program, CE:Mar 72:37
- Dsc, CE:Jan 74:24, on Land Application of Treated Sewage, CE:Sept 73:103

Bauld, Nelson R., Jr.
- See Nuri Akkas, EM3:June 71:727:8189
- See Conor D. Johnson, EM6:Dec 71:1643:8598

Baum, Richard
- Service Systems, Theme Report, TB:73:Ia-2-305

Bauman, Richard D.
- User Oriented Approach to Housing Design for Indians, with Arn Henderson, UP1:Mar 74:29:10384

Baumann, E. Robert
- Five Year Study of Des Moines River Water Quality, with J. G. DeBoer and Charles S. Oulman, IR73:Aug 73:711
- See Richard R. Dague, IR4:Dec 68:441:6298
- See Jerry Y.C. Huang, SA6:Dec 70:1460:7713
- See Jerry Y. C. Huang, SA2:Apr 71:171:8060

Baumgarten, Ralph M.
- Dsc, CO1:June 70:88:7308, of "OPBID: Competitive Bidding Strategy Model", CO1:July 69:85:6690

Baumgartner, Donald J.
- See Arnold B. Joseph, CEO-II:70:465

Bawa, Kanwal S.
- Development of Shotcrete for Metro Construction in Washington, SUSS:July 73:33

Baxter, Samuel S.
- Annual Address, PP1:Oct 71:5:8466
  - Dsc: Tien H. Wu, PP2:Apr 72:291:8818; James T.P. Yao, PP3:July 72:465:9001
  - Clo: PP3:July 73:405:9824
  - TR:139:8
- Antidote for Environmental Hysteria, PP1:Jan 72:1:8663
  - Dsc: Charles D. Crosthwaite, PP4:Oct 72:729:9224
  - TR:138:180
- Are We Really in Trouble, WQEF:Mar 70:83
- Blueprint for the New ASCE Year, CE:Jan 71:43
  - TR:137:27
- Challenges for ASCE, CE:July 71:67
  - TR:136:1334
- Civil Engineering Management in Public Practice, PP1:July 69:23:6662
  - Dsc: John D. Bristor, PP1:Sept 70:151:7549
  - TR:136:761
- Introduction to Session VI -- Applications of New Technology to the Solution of Environmental Problems, PWS:Nov 72:201
- Professional Briefs: Immediate Past President Sam Baxter represented ASCE, CE:Mar 72:86
- Dsc, PWS:Nov 72:115, of "Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment", PWS:Nov 72:81
- Dsc, PWS:Nov 72:159, of "Health Aspects of Water Management", PWS:Nov 72:133

Bay, Robert D.
- 1974 ASCE Officers Installed In New York, CE:Oct 73:88

Bayazit, Mehmetcik
- Resistance to Reversing Flows over Movable Beds, HY4:July 69:1109:6649
  - TR:135:78
- Dsc, HY11:Nov 70:2394:7641, of "Runoff Forecasts by Linear Predictive Filter", HY3:Mar 70:681:7146
- Dsc, HY5:May 71:754:8081, of "Predicting Concentration Profiles in Open Channels", HY10:Oct 70:1983:7618
- Dsc, HY9:Sept 74:1294:10770, of "Sediment Transport: New Approach and Analysis", HY11:Nov 73:2041:10167

Bayles, D. Jack
- Nonlinear Vibrations of Rectangular Plates, with Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727
  - TR:139:328
- Dsc, ST2:Feb 70:415:7047, of "Finite-Difference Methods for Plate Vibration Problems", ST3:Mar 69:441:6477

Bays, Gail
- The Engineering Societies Library, CE:Aug 74:88
- Miss Bays Added To ASCE Staff, CE:Apr 73:92
- New Look To ASCE Professional Staff: Bays, CE:Oct 73:57

Bazan, Enrique
- Seismic Response of One Story X-Braced Frames, with Emilio Rosenblueth, TN: ST2:Feb 74:489:10341

Bazant, Zdenek P.
- Comparison of Approximate Linear Methods for Concrete Creep, with Leonard J. Najjar, ST9:Sept 73:1851:10006
  - Errata: ST:Dec 74:2521:10977
  - TR:139:456
- Creep and Shrinkage Law for Concrete at Variable Humidity, with Spencer T. Wu, EM6:Dec 74:1183:10995
- Dirichlet Series Creep Function for Aging Concrete, with Spencer T. Wu, EM2:Apr 73:367:9645
  - TR:139:254
- Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, with Mahjoub El Nimeiri, EM6:Dec 73:1259:10247
  - TR:139:544
- Long-Wave Extensional Buckling of Large Regular Frames, with M. Christensen, ST10:Oct 72:2264:9301
  - TR:138:504
- Stiffness Method for Curved Box Girders at Initial Stress, with Mahjoub El Nimeiri, ST10:Oct 74:2071:10877
- Thermoviscoelasticity of Aging Concrete, with Spencer T. Wu, EM3:June 74:575:10621
- Dsc, ST12:Dec 70:2682:7714, of "Behavior of Concrete Under Varying Strain Gradients", ST8:Aug 70:1675:7484
- Dsc, EM4:Aug 74:819:10694, of "Efficient Method for Solution of Viscoelastic Problems", EM6:Dec 73:1119:10206
- Dsc, ST9:Sept 74:1976:10772, of "Incremental Finite Element Matrices", ST12:Dec 73:2423:10226

Bazaraa, Abdel Rahman S.
See Ralph B. Peck, SM3:May 69:905:6525

Bazilevich, Vadim Aleksandrovich
Dsc, HY9:Sept 74:1285:10770, of "Incipient Motion and Sediment Transport", HY10:Oct 73:1679:10067

Beal, David B.
Dsc, with Robert J. Kissane, ST11:Nov 69:2541:6867, of " Horizontally Curved Girders-State of the Art", ST5:May 69:853:6546

Beard, George L.
Owner-Engineer-Contractor Economic Considerations in Dam Construction, ECCD:72:503

Beard, Leo R.
Drought Severity and Water Supply Dependability, with Harold E. Kubik, IR3:Sept 72:433:9219
  Dsc: John C. Schaake, Jr., Guillermo Vicens, Eric Wood, Roberto Lenton and Alonso Rhenals, IR3:Sept 73:409:9962
  TR:139:175
Probabilities of Rare Floods, IMROD:Sept 73:314
Status of Water Resource Systems Analysis, HY4:Apr 73:559:9658
  TR:139:246
See E. R. Close, HY5:May 70:1167:7297

Beaton, John L.
Making Highways Skid-proof, CE:Mar 71:42
  Errata: Corrections, John L. Beaton, CE:Aug 71:63
  TR:137:190

Beaufait, Fred W.
See Karl C. Muhlbauer, ST12:Dec 69:2783:6958

Beaver, Bob
Area Infrared Locates Solid Ground in Mined Area, with Jack Wood, CE:Mar 73:62
  TR:139:112

Beazley, Jon S.
Modern Day Surveys for Highway Location and Design, SU1:Apr 70:11:7196
  TR:136:727

Beck, Allan D.
Analysis of Inner Plant Passage of Estuarine Biota, with Don C. Miller, EPCE:Aug 74:199

Beck, Charles F.
The Civil Engineer's Role in the Power Industry, EPCE:Aug 74:1
The Computer's Role in Transmission Line Design, EC5:70:63
Computer's Role in Transmission Line Design, ST1:Jan 71:63:7817
  Dsc: Harihar De and George R. Sinclair, ST10:Oct 71:2610:8411
  Clo: ST5:May 72:1187:8861
  TR:137:503
Responsibilities of Computer-Aided Design, CE:June 72:58
  TR:138:288

Beck, Earl J.
Mossyrock Project River-Diversion and Care of Fish, PO1:Jan 71:1:7800
  TR:137:105

Beck, Hubert
Stability, Theme Report, with Kon Zilch, TB:73:III-23-499

Beck, Louis A.
See Thomas A. Tamblyn, SA4:Aug 68:728:6049

Becker, C. Dale
See David L. Schreiber, PO2:Dec 74:139:11001

Becker, Edgar
Dsc, SM1:Jan 72:138:8622, of "Vibratory Densification of Damp Clayey Sands", SM8:Aug 71:1069:8320

Becker, Eric B.
See James Colville, ST3:Mar 73:349:9593

Becker, James M.
Fatigue Failure of Welded Tubular Joints, with William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
  TR:138:62

Becker, John C.
Alaska Builds Highway Over Muskeg and Permafrost, CE:July 72:75
  TR:138:349

Becker, Leonard
Timing and Sizing of Complex Water Resource Systems, with William Wen-Gong Yeh, HY10:Oct 74:1457:10883
See William Wen-Gong Yeh, HY11:Nov 73:2013:10177

Becker, Robert J.
Dsc, CE:Apr 74:22, on The Fickle Mississippi, CE:Dec 73:60

Beckman, Wallace J.
See Edward B. Fitzpatrick, Jr., CE:Sept 74:83

Beckner, Horace S.
See George E. Day, PO1:Jan 71:203:7803
See George E. Day, PO1:Jan 71:250:7784

Beckwith, William F.
See Jerald P. Peterson, HY6:June 74:773:10622

Bedford, Keith W.
See Fred G. Haag, HY12:Dec 71:2051:8610

Bedrosian, Bedros
Acoustic Approximations in Fluid-Shell Interactions, with Frank L. DiMaggio, EM3:June 72:731:8998
  Errata: EM4:Aug 72:1002:9125
  TR:138:337

Beebe, Robert G.
Weather Modification and People, OIDS:72:435

Beedle, Lynn S.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-513
Introduction to Tall Buildings Conference, TB:73:C-21
Introduction to Tall Buildings Proceedings, TB:73:C-1
New ASCE Officers Installed in Kansas City: 1974, CE:Oct 74:92
Planning and Desing of Tall Buildings, with Le-Wu Lu, TB:74, 5200pp.
  TR:139:173
Recent Developments in Plastic Design Practice, with Le-Wu Lu and Lee C. Lim, ST9:Sept 69:1911:6781
  Errata: ST7:July 70:1602:7386
  TR:135:259
Survey of Current Structural Research, with Warren A. Shaw, 1970, 290 pp.
  TR:135:1096
Dsc, PP1:Jan 72:145:8621, of "Tall Buildings--A Technological Assessment", PP1:Oct 71:111:8476

Beene, Ralph R. W.
A Study of a Slide-prone Clay in Panama, 4PCSM:71:II129
Dsc, SM7:July 73:573:9825, of "Analysis of Waco Dam Slide", SM9:Sept 72:869:9210

Beer, Carl
Dsc, SA2:Apr 70:647:7190, of "Phosphate Removal: Summary of Papers", SA5:Oct 69:803:6807

- Dsc, SA2:Apr 70:648:7190, of "Phosphate Removal at Baltimore, Maryland", SA5:Oct 69:817:6817
- Dsc, SA6:Dec 70:1452:7713, of "Evaluation of Anaerobic Denitrification Processes", SA2:Apr 70:267:7211

Beetle, George R.
- Engineering and Society: A Contemporary Challenge, CE:Feb 71:51
    - Dsc: Robert F. Borg, CE:July 71:40
    - TR:137:126
- Dsc, with Thomas B. Furmaniak and Ghebreiesus Yiesghen, TE4:Nov 73:966:10110, of "Computer Simulation of Subway Environment", TE1:Feb 73:53:9518

Beg, M. I.
- Finite Difference Approach to Hyperbolic Paraboloids, ST2:Feb 72:429:8730
    - Dsc: William C. Schnobrich, David A. Pecknold and Chang-Koon Choi, ST8:Aug 72:1885:9079
    - TR:138:146

Begell, Richard G.
- See Normand L. Moore, SU1:May 71:83:8098

Beggs, James M.
- Designing Transportation for People, MTI:May 72:7

Behera, Umakanta
- Reinforcement for Torque in Spandrel L-Beams, with K. S. Rajagopalan and Phil M. Ferguson, ST2:Feb 70:371:7103
    - TR:136:581
- Torsion, Shear, and Bending on Stirruped L-Beams, with Phil M Ferguson, ST7:July 70:1271:7419
    - Dsc: Ganpat S. Pandit, ST4:Apr 71:1374:8015
    - Errata: ST11:Nov 71:2757:8485
    - TR:137:70
- Dsc, ST11:Nov 70:2537:7644, of "Spandrel-Slab Interaction", ST1:Jan 70:89:7017
- Dsc, ST3:Mar 71:977:7944, of "Concrete Beams in Bending, Torsion and Shear", ST5:May 70:885:7270
- Dsc, ST3:Mar 71:996:7944, of "What Do We Know About Torsion in Concrete Members", ST6:June 70:1185:7372
- See K. S. Rajagopalan, ST9:Sept 72:2097:9209

Behlke, Charles E.
- Artificial Sea Ice Structures For Alaskan Ports, with Alexander R. McKay, CEO-II:70:361

Behn, Vaughn C.
- Dsc, Cornell Project, CE:June 74:26
- See Richard N. White, CEE:Feb 74:1-787

Behrend, Herbert
- Mobile Homes and New Communities, UP2:Nov 74:181:10915

Beik, Lewis A.
- See Assad Abdul-Baki, SM2:Mar 70:545:7158

Beimborn, Edward A.
- Impedance Minimization Travel Choice Process, TE2:May 72:177:8882
    - TR:138:140
- Terminal Access and the Choice of Intercity Modes, TE3:Aug 69:463:6731
    - Dsc: Richard F. Broberg, TE2:May 70:248:7251
    - Clo: TE1:Feb 71:165:7864
    - TR:136:117
- See Curtis W. Richards, TE3:Aug 73:435:9923
- See Frederick J. Wegmann, EI4:Oct 74:313:10863

Belford, Don
- Composite Steel-Concrete Building Frame, CE:July 72:61
    - TR:138:334

Beliveau, Jean-Guy
- See Robert H. Scanlan, EM4:Aug 74:657:10709

Bell, Dave
- See David Brenchley, CE:Mar 73:83

Bell, Frederick C.
- Generalized Rainfall-Duration-Frequency Relationships, HY1:Jan 69:311:6357
    - Dsc: Frederic T. Mavis, HY6:Nov 69:2191:6866
    - Clo: HY7:July 70:1608:7384
    - TR:135:980

Bell, Gordon L.
- Dsc, PES:73:III-127, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589
- Dsc, PES:73:III-127, of "Hydraulic Fracturing in Low Dams of Dispersive Clay", PES:72:I-653

Bell, Hans F.
- Notes on Trees and Tree Planting, CE:July 73:77
    - TR:139:310

Bell, James M.
- General Slope Stability Analysis, SM6:Nov 68:1253:6222
    - Errata: SM6:Nov 69:1564:6894
    - TR:135:906
- Noncircular Sliding Surfaces, SM3:May 69:829:6567
    - Dsc: P. Purushothamaraj, SM1:Jan 70:357:6989
    - Clo: SM5:Sept 70:1807:7499
    - TR:135:990
- Dsc, SM1:Jan 69:340:6324, of "Deformation of Sand in Shear", SM5:Sept 67:283:5470
- See V. Miguel Ponce, SM4:Apr 71:625:8062

Bell, John C.
- Partially Cracked Finite Elements, with David G. Elms, TN: ST7:July 71:2041:8226

Bell, Lansford C
- Analysis of Curved Girder Bridges, with Conrad P Heins, Jr., ST8:Aug 70:1657:7462
    - Dsc: Douglas A. Nettleton, ST2:Feb 71:739
    - Clo: ST12:Dec 71:2886:8557
    - TR:137:115
- Student Assistance for Local Governments, CEE:Feb 74:1-143
- See Conrad P. Heins, Jr., ST4:Apr 72:831:8835

Bell, Milo C.
- See Ronald E. Nece, HYB:Aug 73:31

Bell, Thomas H.
- See Kingsley G. Williams, ISSF:Aug 72:699

Bella, David A.
- Difference Modeling of Stream Pollution, with William E. Dobbins, SA5:Oct 68:995:6192
    - Dsc: Edward R. Holley, SA5:Oct 69:968:6802
    - Clo: SA2:Apr 70:610:7190
    - TR:135:608
- Dissolved Oxygen Variations in Stratified Lakes, SA5:Oct 70:1129:7628
    - Errata: SA5:Oct 71:765:8409
    - TR:136:1237
- Ecological Importance Of Temporal Variations, TN: SA4:Aug 72:685:9084
- Environmental Planning and Ecological Possibilities, with W. Scott Overton, SA3:June 72:579:8994
    - Dsc: Robert C.H. Wilson, EE2:Apr 73:162:9635; Frederick C. Dean and Samuel J. Harbo, Jr., EE3:June 73:385:9758
    - Clo: EE4:Aug 74:1035:10693
    - TR:139:331
- Estimating Dispersion Coefficents In Estuaries, with William J. Grenney, TN: HY3:Mar 72:585:8754
- Finite-Difference Convection Errors, with William J. Grenney, SA6:Dec 70:1361:7744
    - Dsc: Douglas G. Fox, SA5:Oct 71:766:8409
    - Clo: SA5:Oct 72:773:9225
    - TR:137:850
- Fundamentals of Comprehensive Environmental Planning, EI1:Jan 74:17:10267
- Dsc, SA2:Apr 69:358:6485, of "Atmospheric Oxygenation in a Simulated Stream", SA2:Apr 68:319:5905

- Dsc, SA6:Dec 69:1184:6931, of "Impoundment and Temperature Effect on Waste Assimilation", SA1: Feb 69:37:6406
- Dsc, PP4:Oct 73:536:10040, of "Engineering and Public Service - A Renaissance", PP1:Jan 73:1:9486
- Dsc, EE6:Dec 74:1293:10971, of "Oxygen Depletion Model for Cayuga Lake", EE1:Feb 74:41:10346

Bellomo, Salvatore J.

- Benefit Measurements of Highway Electronic Route Guidance, with George K. Young, Jr., TE1:Feb 72: 51:8742
  - Dsc: Bernard T. Higonnet, TE1:Feb 72:188:9526
  - TR:138:90
- Selected Approaches to Environmental Impact Evaluation of Regional Alternatives, with Sally D. Liff, UT73:May 73:273

Belloni, Michele

- Soil-Structure Interaction, with Michele B. Jamiolkowski, TB:73:Ia-11-990

Bellows, W. S., Jr.

- Concrete Frame Construction, State-of-Art Report 6, TB:73:Ia-4-777

Bellport, Bernard P.

- Construction Innovations In Reclamation Work, CO1:Mar 71:79:7999
  - TR:137:915
- USBR Specifications Focus on Environment, CE:July 71:50
  - Dsc: Michael Goodman, CE:Dec 71:70
  - TR:137:454
- Dsc, PL1:Oct 68:198:6133, of "Use of Pipelines in the California Water Project", PL3:Nov 67:25:5584

Belonogoff, George

- Computer Simulation of Waterhammer Effects, TE3: Aug 72:521:9104
  - Dsc: Cheng W. Wang, TE3:Aug 73:679:9896
  - Clo: TE2:May 74:526:10508
  - TR:139:35

Below, Kevin D.

- Dsc, ST9:Sept 74:1970:10772, of "Torsion and Bending of Prestressed Concrete Beams", ST11: Nov 73:2229:10129

Beltaos, Spyridon

- Impinging Circular Turbulent Jets, with Nallamuthu Rajaratnam, HY10:Oct 74:1313:10852

Belyaev, V. S.

- See R. V. Ozmidov, ISSF:Aug 72:595

Belyea, P. S.

- See C. A. Ponder, CE:Jan 69:58

Belytschko, Ted B.

- Finite Element Method for Elastic Plastic Plates, with Milan Velebit, EM1:Feb 72:227:8724
  - Dsc: Jan Backlund, EM6:Dec 72:1603:9390
  - Clo: EM4:Aug 73:883:9894
  - TR:139:31
- Plane Stress Limit Analysis by Finite Elements, with Philip G. Hodge, Jr., EM6:Dec 70:931:7746
  - Dsc: Raffaele Casaciario, Antonio Di Carlo and Gianfranco Valente, EM5:Oct 71:1560:8406
  - TR:137:869
- Dsc, ST8:Aug 70:1836:7442, of "Theory of Nonlinear Elastic Structures", ST12:Dec 69:2687:6943
- Dsc, EM1:Feb 74:130:10303, of "Elastic-Plastic Analysis by Quadratic Programming", EM6:Dec 72:1547:9435
- See Lawrence A. Loziuk, HY11:Nov 72:1983:9372
- See Lawrence A. Loziuk, PO2:Nov 73:349:10150

Bemben, Stanley M.

- The Vertical Holding Capacity of Marine Anchors In Sand, with Edward H. Kalajian, CEO-II:70:117

Benassini, Aurelio

- See Raul J. Marsal, EFFD:Mar 74:249

Bender, Donald L.

- See John A. Roberson, HY12:Dec 71:2106:8552
- See David L. Schreiber, HY3:Mar 72:429:8773

Bender, Ostap

- Dsc, CE:Oct 72:82, on Poor Structural Design Brings West Gate Bridge Failure, CE:June 72:47

Bendixen, Thomas W.

- See Ronald A. Popkin, SA2:Apr 68:271:5899
- See Robert M. Clark, SA1:Feb 71:33:7875

Benedict, Arthur H.

- Dynamic Leaching Studies on Pulpwood Bark Residues, with James J. McKeown and Russell D. Hart, EE4:Aug 74:869:10701
- Static Leaching Studies on Pulpwood Bark Residues, with James J. McKeown and Russell D. Hart, EE3: June 74:529:10572

Benedict, Barry A.

- Dsc, SA1:Feb 71:112:7865, of "Predicting Effects of Dead Zones on Stream Mixing", SA2:Apr 70:319: 7218
- Dsc, with Bent A. Christensen, WW1:Feb 71:213: 7868, of "Self-Stabilizing Tendencies of Alluvial Channels", WW2:May 70:235:7263
- Dsc, SA4:Aug 71:537:8269, of "Heated Discharge from Flume into Tank", SA6:Dec 70:1415:7762
- See Edward M. Polk, Jr., HY10:Oct 71:1639:8446
- See Louis H. Motz, HY1:Jan 72:181:8669
- See Jerry L. Anderson, ISSF:Aug 72:469

Benedict, Corey

- See Royal H. Brooks, IR3:Sept 71:455:8389

Benjamin, Jack R.

- Making Decisions in the Face of Uncertainty, IMROD:Sept 73:356
- Probabilistic Methods, TB:73:Ib-10-1013
- Probabilistic Models for Seismic Force Designs, ST5: May 68:1175:5950
  - Dsc: Abraham M. Hasofer, ST1:Jan 69:133:6325; Luis Esteva, ST2:Feb 69:309:6373
  - Clo: ST10:Oct 69:2322:6803
  - TR:135:623
- Probabilistic Structural Analysis and Design, ST7:July 68:1665:6019
  - Dsc: Frederic T. Mavis, ST3:Mar 69:528:6430; John A. Blume, ST4:Apr 69:776:6486; Jawalker K. Sridhar Rao, ST7:July 69:1572:6644
  - Clo: ST1:Jan 70:129:6990
  - TR:135:676
- See Joseph I. Folayan, SM4:July 70:1127:7390

Benjamin, Neal B.H.

- Competitive Bidding: The Probability of Winning, CO2:Sept 72:313:9218
  - Dsc: Pertti Naykki, CO1:July 73:224:9822
  - TR:139:304
- Sensitivity Analysis of Douglas Equipment Life Model, CO1:Mar 72:61:8796
  - Errata: CO1:July 73:215:9822
  - TR:139:165
- Simulating Effects of Weather on Construction, with Theodore W. Greenwald, CO1:July 73:175:9888
  - TR:139:541
- Dsc, CO1:June 70:91:7308, of "OPBID: Competitive Bidding Strategy Model", CO1:July 69:85:6690

Benjamin, T. Brooke

- Dsc, EM6:Dec 68:1585:6260, of "Solution for Gravity Flow Under a Sluice Gate", EM1:Feb 68: 153:5797

Bennett, Allyn C.

- See H. N. McGill, IR73:Aug 73:501

Bennett, Edwin R.
Economic Aspects of Sludge Dewatering and Disposal, with David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Dsc: P. Aarne Vesilind, EE5:Oct 73:754:10035
Clo: EE3:June 74:761:10564
TR:139:8

Bennett, Fred
Dsc, CE:Jan 71:67, on New Paving Concept for Newark Airport, CE:Sept 70:95

Bennett, James E.
Summary of Session V -- Foreign Practices in Concrete Dam Construction, ECCD:72:477

Bennett, James P.
At-Stream-Velocity Pumping Sediment Sampling System, HY6:June 73:873:9801
Dsc: J. L. Chao, HY6:June 74:826:10567
TR:139:303
Dsc, HY9:Sept 71:1533:8345, of "Indeterminate Hydraulics of Alluvial Channels", HY11:Nov 70:2309:7696
Dsc, SA5:Oct 72:802:9225, of "Effects of Dispersion on DO-sag in Uniform Flow", SA1:Feb 72:169:8743
Dsc, HY1:Jan 74:240:10251, of "Unit-Response Method of Open-Channel Flow Routing", HY1:Jan 73:179:9499
Dsc, with Harvey E. Jobson, EE4:Aug 74:1040:10693, of "Oxygen Sag Curve with Thermal Overload", EE5:Oct 73:569:10045
See Ronald E. Rathbun, SA5:Oct 69:985:6802
See Erich J. Plate, EM6:Dec 69:1307:6955

Bennett, John A.
Dsc, CE:Apr 72:62, on Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61

Bennett, John C.
See Raymond H. Ellis, TE3:Aug 74:661:10737

Bennett, Ray S.
Rehabilitation of Irrigation System, with Charles F. Lurvey, IRS:Sept 72:151
See Gaylord V. Skogerboe, HY2:Feb 71:362:7863
See Lloyd H. Austin, IR3:Sept 71:433:8366
See Gaylord V. Skogerboe, IR4:Dec 72:569:9438

Bennett, W. Burr, Jr.
Future of Prestressed Concrete, CE:July 69:41
TR:135:244

Benson, Barrett E.
See John T. O'Connor, SA6:Dec 70:1335:7740

Benson, Fred J.
A Proposed Doctor of Engineering Program, with Charles H. Samson, Jr., CEE:Feb 74:1-772

Benson, Manuel A.
Dsc, HY2:Feb 72:408:8681, of "Flood Frequency Estimating Techniques for Small Watersheds", HY9:Sept 71:1441:8383

Benson, Raymond P.
Rock Mechanics at Churchill Falls, with Robert J. Conlon, Andrew H. Merritt, Paul Joli-Coeur and Don U. Deere, URC:72:407

Bentley, Richard L.
See Ronald G. Moreland, PO1:May 73:041:9714

Benton, Walter B.
Select Reservoir Withdrawal by Multilevel Intakes, with William J. Wall and Shelton R. McKeever, PO1:Jan 70:109:7029
TR:136:409

Benton, William H.
See William F. Hill, Jr., NSCD:71:223
See William F. Hill, Jr., SA5:Oct 71:601:8423

Benuska, Kalmar L.
See Ray W. Clough, EM3:June 67:129:5292

Benveniste, Jacques E.
See David H. Cheng, ST12:Dec 71:2928:8557

Benz, Leo C.
Drainage Analysis of a Confining Formation, with Eugene J. Doering, IR73:Aug 73:225
See Eugene J. Doering, IR2:June 72:275:8964

Benzies, J. Y.
Graphical Method for Finding All Roots of Quadratic and Cubic Equations, CE:Jan 71:53
Dsc: Graphic Solution of Quadratic Equations, Max Kurtz, CE:Apr 71:65; Solving Quadratics on a Slide Rule, Park K. Chen, CE:Sept 71:72
Errata: Corrections, Max Kurtz, CE:Aug 71:63
TR:137:37

Benziger, C. P.
See Mircea S. Vasilescu, URC:72:21

Ben-Zvi, Arie
Dsc, HY3:May 68:830:5920, of "Determination of Efficient Open Channel Sections", HY6:Nov 67:103:5567
Dsc, HY2:Mar 69:735:6433, of "Design Hydrographs for Pennsylvania Watersheds", HY4:July 68:937:6036
Dsc, HY12:Dec 70:2628:7711, of "Laminar and Turbulent Overland Flow Hydrographs", HY2:Feb 70:441:7069
Dsc, HY7:July 73:1189:9823, of "Kinematic Wave Nomograph for Times of Concentration", HY10:Oct 72:1765:9275
See Ven Te Chow, HY11:Nov 73:2023:10172

Beran, Max
Dsc, HY12:Dec 74:1843:10974, of "Elevation Dependent Model for Estimating Annual Runoff", HY12:Dec 73:2293:10245

Bercha, Frank G.
Numerical Analysis of Thick Shells of Revolution, with Peter G. Glockner, EM5:Oct 73:1053:10093
TR:139:482
Thick Shell and Oriented Surface Theories, with Peter G. Glockner, EM4:Aug 72:823:9095
Errata: EM4:Aug 73:889:9894
TR:139:79
Thick-Shell Stress Resultants, with Peter G. Glockner, TN: EM3:June 72:757:8931

Beredugo, Youpele O.
See Milos Novak, SM12:Dec 72:1291:9412

Berg, Dennis W.
Time-Interval Photography of Littoral Phenomena, with Eugene F. Hawley, CE13:72:II-725
See J. H. Balsillie, CE13:72:II-1367

Berg, Gerald
Integrated Approach to Problem of Viruses in Water, SA6:Dec 71:867:8590
Dsc: Malay Chaudhuri, SA6:Dec 72:1045:9393
TR:138:122
An Integrated Approach to the Problem of Viruses in Water, NSCD:71:339

Berg, Glen V.
Building Practices for Disaster Mitigation: Book Review, CE:Jan 74:30
See Subhash C. Goel, ST8:Aug 68:1907:6061
See Chang-Kuei Sun, EM1:Feb 73:183:9565
See Robert D. Hanson, ST1:Jan 74:175:10289

Berg, Paul F.
Some Biological Impacts of Converting Powerplants from Oil to Coal, EPCE:Aug 74:623

Berg, William D.
Local Rural Road Costs and Economies of Scale, TE4:Nov 72:881:9340
Dsc: David A. Weaver, TE3:Aug 73:685:9896
Clo: TE2:May 74:527:10508
TR:139:72
More Efficient Local Rural Road Administration, TE4:Nov 74:975:10942
See Herman A.J. Kuhn, CEE:Feb 74:1-104

Berger, Bernard B.
Current Perspectives in Disinfection, NSCD:71:1
Engineering Evaluation of Virus Hazard in Water, by the Committee on Environmental Quality Management of the Sanitary Engineering Division, SA1:Feb 70:111:7112
Dsc: Francois A. Van Duuren, SA5:Jan 70:1286:7569
TR:136:1064
Review of "A Strategy for a Livable Environment", SA6:Dec 67:171:5689
Dsc: E. J. Kilcawley, Paul W. Purdom and Sergei N. Grimm, SA3:June 69:667:6582
Clo: SA1:Feb 70:165:7046
Social and Ecological Implications of Proposals for Out-of-Basin River Diversions, PP1:Oct 71:95:8481
TR:137:1004

Berger, Paul D.
"America Burning," the Report of the National Commission on Fire Prevention and Control (Book Review), CE:Mar 74:38

Berger, Richard J.
See Alfred E. Caswell, EPCE:Aug 74:587

Berger, Wallace G.
Behavioral Evaluation of Pedestrian Countermeasures, BP73:Dec 73:112

Bergeron, William Joseph
See Robert Lee Thoms, RM14:73:393

Bergh, Sverre E.
Infrastructure Planning: Force Behind Port of Rotterdam's Growth, CE:May 71:79
TR:137:384

Berghinz, Carlo
Venice is Sinking into the Sea, CE:Mar 71:67
Dsc: Submerging City, Sterling McKihrick, CE:Mar 71:52
TR:137:241

Bergmann, E.
Wall Panel Resistance to Tornado-Borne Debris, with R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425

Bergmann, James M.
See David R. Dawdy, IR73:Aug 73:619

Bergstrom, Richard N.
Seismic Analysis of Nuclear Power Plant Structures, with Shih-Lung Chu and Robert J. Small, PO2:Mar 71:367:7977
Dsc: Melvin W. Jackson, PO4:Dec 71:888:8554
TR:137:931
Significance of Safety in Civil Engineering Practice, in the Public Interest, by the ASCE Task Committee on Safety Policy, EI1:Jan 74:11:10299
Dsc: E. Montford Fucik, EI4:Oct 74:371:10835

Berk, Ralph G.
Disposal Well Problems in Chicago and Bakersfield Areas, SA5:Oct 71:675:8405
TR:137:1028

Berkhoff, J. C.W.
Computation of Combined Refraction-Diffraction, CE13:72:I-471

Berklite, Ronald B.
See C. J. Garrison, EM1:Feb 73:99:9563

Berkowitz, Carl
Getting the Job Done, with Richard Cohen, BP73:Dec 73:282

Berkowitz, John
Highway and Utility Share Corridor, CE:Nov 74:61

Berkson, Harold
See T. A. Wastler, CEO-II:70:221

Berlamont, Jean
Solutions for Lateral Outflow in Perforated Conduits, with Andre Van der Beken, HY9:Sept 73:1531:10004
TR:139:378
See Marc DeSomer, HY12:Dec 70:2638:7711

Berlin, Geoffrey N.
Computerized Residential Refuse Districting, UP2:Nov 74:173:10916

Berlyand, M. E.
Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, with E. L. Genikhovich, ISSF:Aug 72:125

Bernal, Reynaldo
See R. Wayne Skaggs, IR3:Sept 72:363:9183

Bernard, Michael C.
Buckling of Columns with Random Initial Displacements, with John L. Bogdanoff, EM3:June 71:755:8194
TR:137:600

Berndt, Harold D.
See Jimmy R. Williams, HY12:Dec 72:2087:9426

Bernhart, Walter D.
Determination of Perspective Generating Parameters, SU2:Sept 68:95:6093
TR:135:747

Bernstein, Leon
Dsc, IR4:Dec 69:648:6930, of "Salt Balance, Irrigation Efficiency, and Drainage Design", IR1:Mar 69:153:6465
See Jan van Schilfgaarde, IR73:Aug 73:647
See Jan van Schilfgaarde, IR3:Sept 74:321:10822

Bernstein, Lev B.
Tidal Power Station on USSR's Arctic Coast, CE:Apr 74:46

Berry, Derek F.
Geomechanical Instrumentation in Mexico Tunnels, URC:72:51

Berry, George R., Jr.
Dsc, CE:Mar 72:77, on Can Development and Ecology be Reconciled?, CE:Apr 71:67

Berry, George T.
Power Generation Under IJC Regulation, PO2:Nov 68:217:6257
TR:136:620

Berry, Ormond Robert
Architectural Seismic Detailing, State-of-Art Report 3, TB:73:Ia-12-1115
First National Bank of Oregon, TB:73:C-P-258
United California Bank, TB:73:C-P-251

Bert, Charles W.
Shear-Flexible Orthotropic Plates Loaded in Plane, with Shyming Chang, EM6:Dec 72:1499:9450
TR:138:602

Bertelsen, Jens Aage
See Ove Skovgaard, WAVES:Sept 74:761

Bertero, Vitelmo V.
Beam-Column Subassemblages Under Repeated Loading, with Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
  Dsc: Norman W. Hanson, ST1:Jan 73:225:9462
  Clo: ST7:July 73:1649:9826
  TR:139:67
Ductility and Seismic Response, TB:73:Ib-6-303
Effects of Generalized Excitations on the Non-Linear Behavior of Reinforced Concrete Structures, State-of-Art Report 5, TB:73:III-22-431
Steel-Encased Expansive Cement Concrete Column, with Saad E. Moustafa, ST11:Nov 70:2267:7660
  TR:137:841
See Boris Bresler, ST6:June 68:1567:6013
See James C. Anderson, ST6:June 70:1246:7314
See Egor P. Popov, ST6:June 73:1189:9790
See Stephen A. Mahin, ST6:June 74:1225:10614

Berthouex, Paul M.
Design Capacities to Accommodate Forecast Uncertainties, with Lawrence B. Polkowski, SA5: Oct 70:1183:7633
  Errata: SA5:Oct 71:766:8409
  TR:136:1180
Monte Carlo Simulation of Industrial Waste Discharges, with Linfield C. Brown, SA5:Oct 69: 887:6836
  TR:136:318
Ordering Sewer Design Calculations, with Gary Wagner and Lawrence J.P. Scully, TN: EE6:Dec 74:1303:10978
Problems Associated with Planning BOD Experiments, with William G. Hunter, SA3:June 71:333:8202
  Dsc: Veerasamy Kothandaraman, SA6:Dec 71: 951:8555
  Clo: SA4:Aug 72:659:9077
  TR:137:742
Some Historical Statistics Related to Future Standards, EE2:Apr 74:423:10468
Statistical Experimental Design: BOD Tests, with William G. Hunter, SA4:Aug 71:393:8286
  TR:137:786
Dsc, SA5:Oct 72:804:9225, of "Design and Economics of Joint Wastewater Treatment", SA1: Feb 72:153:8746
See William C. Boyle, EE2:Apr 74:391:10451

Bertle, Frederick A.
Conversion of Maximum Rainfalls to Floods (Bureau of Reclamation Techniques), IMROD:Sept 73:302
Selecting Spillway Floods for Existing Structures (Bureau of Reclamation Application), IMROD:Sept 73:328

Bertram, L.
Dsc, with Anatole Longinow, ST2:Feb 74:481:10306, of "Residential Buildings Engineered to Resist Tornadoes", ST4:Apr 73:701:9668

Berwanger, Carl
Strength Development of Concrete Exposed in Winter, with V. Mohan Malhotra, EM2:Apr 74: 305:10489
Dsc, ST12:Dec 69:2992:6932, of "Bridge Tests Predicted by Finite Difference Plate Theory", ST2: Feb 69:249:6421

Bespalow, E. F.
The Story of Tom Lee, CE:Jan 70:84

Bespflug, Keith E.
See Eli I. Robinsky, SM9:Sept 73:649:10009

Bessey, Roy F.
Dsc, Organizing to Solve Environmental Problems, CE:Mar 72:66
Planning for Resources--Environmental Conservation, HY11:Nov 73:2061:10173
  Errata: HY5:May 74:717:10505
  TR:139:463
Dsc, PO2:Nov 68:246:6201, of "River-Basin Planning for Private Development", PO1:May 68:67:5946
Dsc, WW4:Nov 68:533:6204, of "State Viewpoint on River Basin Planning", WW2:May 68:217:5955
Dsc, WW2:May 69:223:6528, of "Federal View of Interagency River Basin Planning", WW3:Aug 68: 305:6067
Dsc, PO1:May 73:261:9690, of "Logical Approaches to Power Supply and Environment", PO2:Oct 72: 181:9257

Bestor, George C.
City Planning Bibliography, with Holway R. Jones, CPB:72, 518pp.
  TR:138:266
Towards New Towns for America-Slowly, UP1:Mar 73:47:9591
  Dsc: Leland M. Orrett, UP1:Mar 74:113:10382
  TR:139:106
Trends in Residential Development, CE:Sept 69:83
  TR:135:897

Betson, Roger P.
Analytically Derived Unit Graph and Runoff, with Ralph F. Green, HY6:Nov 68:1489:6256
  Dsc: Terence O'Donnell, F. Victor Appleby and Richard P. Ibbitt, HY6:Nov 69:2160:7248
  Clo: 1970
  TR:135:274

Bettigole, Neal H.
Dsc, CE:June 70:46, on Civil Engineering Today: A Profession in Crisis-Part II, CE:Feb 70:51

Betz, Jack M.
Research Needs in Sanitary Engineering, SA2:Apr 72:299:8833
  Dsc: Dennis W. Weeter, SA5:Oct 72:805:9225; Edmond B. Pugsley, SA5:Oct 72:806:9225; Douglas V. Smith, SA6:Dec 72:1055:9393; Santosh R. Goswami, SA6:Dec 72:1056:9393; Ralph Wagner, EE1:Feb 73:97:9521; Ashok N. Shahane, EE1:Feb 73:97:9521
  Clo: EE5:Oct 73:744:10035
  TR:139:193

Bezdek, Roger H.
See Bruce M. Hannon, PP4:Oct 73:521:10080

Bezzone, A. P.
Pine Valley Creek--a First, CE:Aug 74:72

Bhagavantam, D.
Dsc, HY1:Jan 69:480:6323, of "Boundary-Layer Development at Curved Conduit Entrances", HY1: Jan 68:195:5756
Dsc, HY11:Nov 73:2140:10109, of "Orifice Losses for Laminar Approach Flow", HY11:Nov 72:2015: 9370

Bhagavantam, Dasika
Dsc, HY12:Dec 74:1842:10974, of "Studies on Seepage from Canals with Partial Lining", HY12: Dec 73:2333:10197

Bhal, Nripendra S.
Dsc, ST5:May 74:1144:10506, of "The Shear Strength of Reinforced Concrete Members", ST6: June 73:1091:9791

Bhamidipaty, Suryanarayana
Laboratory Study of Degradation and Aggradation, with Hsieh W. Shen, WW4:Nov 71:615:8493
  Dsc: Sutesaburo Sugio, WW4:Nov 72:588:9310
  TR:138:40

Bhandari, Dev R.
See J. Tinsley Oden, EM1:Feb 73:131:9554

Bhasin, Rakhishwar N.
Dsc, SM6:Nov 69:1574:6894, of "Controlled Gradient Consolidation Test", SM1:Jan 69:77:6327
Dsc, HY9:Sept 70:1918:7497, of "Erodibility of Channels With Cohesive Boundary", HY3:Mar 70: 755:7156

Bhaskaran, Ravikumar
Dsc, SM1:Jan 71:249:7785, of "Undrained Strength of Anisotropically Consolidated Sand", SM2:Mar 70:411:7136
Dsc, SM3:Mar 71:584:7943, of "In Situ Strength of Rolled and Hydraulic Fill", SM3:May 70:881:7273
Dsc, SM8:Aug 71:1128:8270, of "Strength of Anisotropically Consolidated Compacted Clay", SM6:Nov 70:2025:7703
Dsc, SM10:Oct 71:1503:8410, of "Undrained Strength of Compacted Clay", SM1:Jan 71:219:7833
Dsc, SM3:Mar 72:304:8751, of "Evaluation of Pore Pressures Beneath and Embankment", SM6:June 71:881:8213
See Kolinjuvadi S. Sankaran, SM8:Aug 73:635:9892

Bhatia, Harbhajan S.
See J. W.S. de Graft-Johnson, SM11:Nov 72:1245:9375

Bhatt, Prabhakara
Deep Beam on Statically Indeterminate Supports, EM4:Aug 73:793:9902
  Errata: EM3:June 74:617:10565
  TR:139:369
Dsc, ST7:July 73:1672:9826, of "Influence of Joints in Panelized Structural Systems", ST9:Sept 72:1943:9207

Bhattacharya, Sunil K.
Deltaic Activity of Bhagirathi-Hooghly River System, WW1:Feb 73:69:9538
  TR:139:169
Evaluation of Harbor Deepening Projects, with Amarendra N. Biswas, WW1:Feb 73:111:9575
  Errata: WW4:Nov 73:501:10114
  TR:139:217

Bhattacharys, Bijoy K.
Spherical Structural Systems In Fluid Media, with John F. Carney, III, CEO-II:70:555

Bhattacharyya, Dibakar
See Robert B. Grieves, SA3:June 69:515:6610

Bhaumik, Anjan K.
See Jeremy Isenberg, EM3:June 71:901:8207

Bhave, Pramod R.
Chart for Classification of Flow Profiles in Wide Rectangular Channels, CE:July 70:62
  Dsc: Herman J. Koloseus, CE:Nov 70:61
  Errata: CE:Nov 70:61
  TR:136:552

Bhayani, Kiran L.
See Calvin P.C. Poon, SA2:Apr 71:161:8020

Bhole, Anand G.
See Kenneth J. Ives, EE1:Feb 73:17:9540

Bhowmik, Nani G.
Dsc, HY7:July 70:1641:7384, of "Fluctuating Pressures in Spillway Stilling Basins", HY6:Nov 69:2071:6915
Dsc, HY7:July 70:1647:7384, of "Graphical Solution to Hydraulic Jump", HY1:Jan 70:103:7014
Dsc, HY2:Feb 71:364:7863, of "Open Channel Expansions Fitted with Local Hump", HY5:May 70:1105:7257

Bhuiya, Rezaul Karim
Stochastic Analysis of Periodic Hydrologic Process, HY7:July 71:949:8242
  TR:137:1005
Dsc, HY2:Feb 71:360:7863, of "Risks in Hydrologic Design of Engineering Projects", HY4:Apr 70:959:7229

Bianchi, Dennis H.
See L. Douglas James, HY4:July 69:1470:6641

Bibby, Robert
Mathematical Model of Leaky Aquifer, with Daniel K. Sunada, IR3:Sept 71:387:8350
  TR:137:555

Bickel, John O.
Dsc, World Trade Center, CE:Oct 71:90
  Dsc: Roger H. Gilman, CE:Feb 72:65

Bickley, David T.
Probability Distribution of Maximum Sustained Load, TN: ST11:Nov 74:2361:10904
Dsc, ST7:July 74:1528:10637, of "Spatial and Temporal Variability of Live Loads", ST5:May 73:903:9747

Bidde, Devidas D.
Laboratory Study of Lift Forces on Circular Piles, WW4:Nov 71:595:8495
  Dsc: Jade Dattatri, WW3:Aug 72:421:9081
  TR:138:60

Biedermann, Harold G.
Ethics of Negotiating with Prospective Employers, PP1:Dec 67:27:5656
  Dsc: Thambo Kandiah Ramesvara, PP1:July 69:92:6642
  TR:135:892

Biehl, Theodore G.
In-Line Structure Stores and Treats Combined Overflows, with David M. Waring, CE:Sept 72:62
  Dsc: Floyd A. Skow, CE:Jan 73:84
  TR:138:398

Bielak, Jacobo
Base Moment for a Class of Linear Systems, EM5:Oct 69:1053:6810
  TR:136:277
See Ismael Herrera, EM5:Oct 73:1097:10041

Biesecker, James E.
Ground Water Quality, West Jefferson County, Colo., with Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417

Biesel, Francis
Probabilistic Aspects of Seiche Action on Ships, BMS:71:27
Refraction de la Houle avec Diffraction Moderee, CE13:72:I-491
Use of Models for the Study of the Behavior of Moored Ships, BMS:71:136
  Dsc: Fernando Vasco Costa, BMS:71:139; Fernando Vasco Costa, BMS:71:143; Francis Biesel, BMS:71:145
Dsc, BMS:71:145, of "Use of Models for the Study of the Behavior of Moored Ships", BMS:71:136

Biggs, John M.
An Integrated System For RC Building Design, with Peter J. Pahl and Harry N. Wenke, EC5:70:1
Integrated System For RC Building Design, with Peter J. Pahl and Harry N. Wenke, ST1:Jan 71:13:7816
  Dsc: Surendra K. Goel, ST11:Nov 71:2759:8485
  Clo: ST5:May 72:1186:8861
  TR:137:485

Biggs, Robert B.
Environnental Effects of Overboard Spoil Disposal, SA3:June 68:477:5979
  TR:135:630

Bigham, Robert E.
Dsc, SM1:Jan 70:309:6989, of "Performance of Embankments Constructed Over Peat", SM1:Jan 69:53:6333

Bigler, Alexander B.
Integrating the Planning and Management of Metropolitan Water Resources into a Regional Context, UWRM:71:81

Bijker, Eco W.
Longshore Transport Computations, WW4:Nov 71:687:8546

Billington, David P.
Art in Engineering - The Need for a New Criticism, PP4:Oct 73:499:10102
Dsc: Luis P. Saenz, EI3:July 74:261:10633; Robert N. Scanlan, EI3:July 74:264:10633
TR:139:523
Deck-Stiffened Arch Bridges of Robert Maillert, ST7: July 73:1527:9862
Dsc: Thomas C. Kavanagh, ST4:Apr 74:829:10442; Thomas R. Kuesel, ST4:Apr 74:832:10442; Rowland J. Mainstone, ST8:Aug 74:1728:10697
TR:139:413
Engineering Education and the Origins of Modern Structures, CE:Jan 69:52
TR:135:23
Esthetics in Structural Design, CE:Oct 73:36
TR:139:439
See Robert Mark, ST9:Sept 69:1939:6791
See Yung-shih Wang, EM4:Aug 74:719:10720
See Yung-shih Wang, EM5:Oct 74:1005:10874
See John F. Abel, PO2:Dec 74:209:10976
See Richard D Larrabee, ST12:Dec 74:2367:11002

Binger, Wilson V.
Tarbela Dam Project, Pakistan, PO2:Oct 72:221:9265
Dsc: Raphael G. Kazmann, PO2:Nov 73:437:10111
Clo: PO1:July 74:10636
TR:139:75
Dsc, CE:Apr 71:41, on Population and People, CE: Dec 70:27

Bingham, George S.
Bonneville Power Administration Electric Transmission and the Environment — Past, Present and Future, EPCE:Aug 74:579

Bird, G. Richard
Dsc, CE:June 74:20, on President's Inaugural Address: ASCE, an Action Profile, CE:Jan 74:66

Bird, Harold Crusius
Memoir of, TR:139:560

Bird, John W.
Dsc, IR3:Sept 74:402:10771, of "State Water Rights Laws", IR4:Dec 73:449:10217

Birdsall, Blair
Main Cables of Newport Suspension Bridge, ST12: Dec 71:2825:8606
Dsc: Tadeusz Janiszewski, ST2:Nov 72:335:8926; Hubert Shirley-Smith, ST11:Nov 72:2637:9307; William K. McGrath, ST12:Dec 72:2816:9395; Hugh S.G. Knox, ST12:Dec 72:2818:9395
Clo: ST6:June 73:1315:9763
TR:139:15
Dsc, ST8:Aug 72:1883:9079, of "Mechanical Properties of Structural Cables", ST12:Dec 71:2837:8604
See Carl H. Gronquist, CEWAU:74:52

Birkeland, Halvard W.
Dsc, CE:July 70:57, on Long Prestressed Piles, CE: Apr 70:50
See Donald D. Casad, CE:July 70:42

Birkeland, Philip W.
Dimensional Tolerance - Concrete, State-of-Art Report 5, with Leonard J. Westhoff, TB:73:Ib-9-845

Birkemoe, Peter C.
Bolted Galvanized Bridges-Engineering Acceptance Near, with D. C. Herrschaft, CE:Apr 70:42
TR:136:326
Fatigue of A514 Steel in Bolted Connections, with Donald F. Meinheit and William H. Munse, ST10: Oct 69:2011:6811
Errata: ST6:Sept 70:68:7567
TR:136:255
Fatigue of Bolted High Strength Structural Steel, with Ramachandran Srinivasan, ST3:Mar 71:935:7997
Errata: ST1:Jan 72:360:8623
TR:137:407
See Rajasekharan S. Nair, ST2:Feb 74:351:10373

Birnstiel, Charles
See Gunnar A. Harstead, ST10:Oct 68:2371:6173
See Ronald J. Alvarez, ST11:Nov 69:2477:6922
See John J. Jonatowski, ST6:June 70:1143:7364
See John J. Jonatowski, ST12:Dec 71:2895:8557

Bishara, Alfred G.
Concrete Beams with Prestressed Reinforcement, with Filomeno N. Almeida, ST7:July 70:1445:7411
Dsc: Jehangir F. Mirza and Paul Zia, ST2:Feb 71:737:7867
Clo: ST11:Nov 71:2755:8485
TR:136:1319
Continuous Beams With Prestressed Reinforcement, with George E. Mason and Filomeno N. Almeida, ST9:Sept 71:2261:8387
TR:137:1020
Reinforced Concrete Rectangular Columns in Torsion, with Jong-Cherng Peir, ST12:Dec 68:2913:6305
Clo: ST3:Mar 71:953:7944
TR:136:29
Rotational Capacity of Prestressed Concrete Beams, with Gurcharan S. Brar, ST9:Sept 74:1883:10821

Bishop, A. Alvin
See S. Abdollah Jenab, IR3:Sept 69:361:6768
See I-pai Wu, IR3:Sept 70:223:7506

Bishop, A. Bruce
Water Reuse Systems Analysis, with David W. Hendricks, SA1:Feb 71:41:7898
Dsc: David H. Marks and Guy Leclerc, HY4:Aug 71:541:8269; Lucien Duckstein and Chester C. Kisiel, SA6:Dec 71:939:8555
Clo: SA4:Aug 72:657:9077
TR:137:582

Bishop, Floyd A.
General Statement of Principles to be Included in State Water Rights Laws, IR2:June 72:317:8996
Dsc: Robert L. McFall, IR1:Mar 73:115:9581; Robert E. Vansant, IR1:Mar 73:115:9581; W. Franklin G. Cardy, IR2:June 73:192:9761; Raphael G. Kazmann, IR2:June 73:192:9761; Deon Axthelm, IR2:June 73:194:9761; William R. Walker, IR2:June 73:195:9761
Clo: IR1:Mar 74:90:10380
TR:139:91

Bishop, Harold F.
Master Planning Methodology for Urban Drainage, HY1:Jan 74:189:10290
Dsc: Bernard L. Golding, HY9:Sept 74:1301:10770

Bishop, William M.
See C. W. Sheffield, IR73:Aug 73:691

Biskup, J. T.
Welding Inspection, State-of-Art Report 6, TB:73:Ib-9-851

Bisplinghoff, Raymond
Welcoming Remarks at the Tall Buildings Conference, TB:73:C-31

Bissell, Robert B.
See Charles L. Armentrout, HY2:Feb 70:307:7052

Biswas, Amarendra N.
Sediment Transport in Tidal River, with Arun K. Chakrabarti, HY11:Nov 74:1677:10964
Suspended Load In Bhagirathi River System, TN: HY1:Jan 72:315:8617
Dsc, with K. K. Bandyopadhyay, HY1:Jan 71:175: 7783, of "River Channel Patterns", HY1:Jan 70: 201:7038
Dsc, with Arunendu Sen, HY5:May 71:747:8081, of "Nonequilibrium Transport of Suspended Sediment", HY7:July 70:1567:7430
Dsc, WW2:May 71:431:8086, of "Potamology Data Collection on Lower Mississippi River", WW3:Aug 70:601:7466
Dsc, WW1:Feb 72:102:8686, of "Supercarriers Versus U.S. Harbor Dimensions", WW1:Feb 71:19:7904
Dsc, with Prabhat K. Chatterjee, HY10:Oct 74:1495: 10839, of "Sediment Transport: New Approach and Analysis", HY11:Nov 73:2041:10167
See Sunil K. Bhattacharya, WW1:Feb 73:111:9575

Biswas, Asit K.
Beginning of Quantitative Hydrology, HY5:Sept 68: 1299:6123
  Dsc: Raymond L. Nace, HY22:Mar 69:770:6433
  Clo: HY2:Feb 70:84:7045
  TR:135:752
Social and Institutional Aspects of Irrigation and Drainage, OIDS:72:261
Dsc, PO1:May 68:109:5921, of "Dam Safety-An Objective of Federal Licensing", PO1:Mar 67:67: 5155
Dsc, HY6:Nov 68:1573:6200, of "Environmental Aspects of River Basin Planning", HY6:Nov 67: 323:5605
Dsc, with Beni P. Sengal, HY5:Sept 69:1763:6784, of "Optimum Investment in Structural Flood Control", HY6:Nov 68:1507:6238
Dsc, CE:June 71:40, on Model Law to Improve Dam Safety, CE:Mar 71:53
Dsc, CE:Feb 72:65, on Dams and Ecology: Can They be Made Compatible?, CE:Sept 71:76
Dsc, PP4:Oct 73:546:10040, of "The Critical U.S. Energy Situation", PP2:Apr 73:171:9685
Dsc, HY1:Jan 74:245:10251, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Biswas, Jayanta K.
Three-Dimensional Analysis of Shear Wall Buildings to Lateral Load, with Wai K. Tso, ST5:May 74: 1019:10537
Dsc, with Wai K. Tso, ST11:Nov 70:2540:7644, of "Lateral-Load Analysis of Asymmetric Multistory Structures", ST2:Feb 70:317:7089
See Wai K. Tso, ST3:Mar 73:365:9604

Bittner, Joseph H.
A Radiological Approach to Littoral Drift Problems, CEO-II:70:725

Bitton, Gabriel
Protection of E. Coli by Montmorillonite in Seawater, with Ralph Mitchell, TN: EE6:Dec 74: 1310:10978

Bivins, William S.
Dsc, HY1:Jan 74:252:10251, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Bizri, H.
See Boris Bresler, TB:73:Ib-8-723

Bjerrum, Laurits
Embankments on Soft Ground, PES:73:II-1
  Dsc: Robert D. Holtz and Jan Wennerstrand, PES:73:III-59
Laurits Bjerrum, 54, Dies In London, CE:May 73:90
Progressive Failure in Slopes of Overconsolidated Plastic Clay and Clay Shales, SM5:Sept 67:1:5456
  Dsc: Frederic H. Kellogg, SM1:Jan 69:337:6324
  Clo: SM5:Sept 69:1255:6754
  TR:135:371
Session III - Shallow Foundations, PES:73:III-167
Memoir of, TR:138:616

Black, A. P.
See Riley N. Kinman, 4NSCD:71:11

Black, David K.
Saturating Laboratory Samples by Back Pressure, with Kenneth L. Lee, SM1:Jan 73:75:9484
  TR:139:208
See Kenneth L. Lee, SM2:Feb 72:181:8728

Black, Jared L.
Directional Spectra Model for Ocean Waves, WAVES:Sept 74:713
Dsc, WW2:May 71:440:8086, of "Wave Attenuation by Porous Walled Breakwater", WW3:Aug 70:643: 7468

Black, Ralph J.
See Richard D. Vaughan, SA2:Apr 69:233:6500

Black, William L.
See Bobby O. Hardin, SM2:Mar 68:353:5833

Blackburn, Robert D.
Biological Control of Aquatic Weeds, with David L. Sutton and Thomas Taylor, IR3:Sept 71:421:8362
  TR:137:996

Blackwell, Larry G.
Dsc, SA1:Feb 71:105:7865, of "Response of Activated Sludge to Organic Transient Loadings", SA2:Apr 70:333:7205

Blain, Wilber A.
Dsc, SA5:Oct 69:956:6802, of "Evaluation of Nitrification in Streams", SA5:Oct 68:883:6159
Dsc, SA5:Oct 69:974:6802, of "Ammonia Nitrogen Losses from Streams", SA6:Dec 68:1085:6282

Blair, P. M.
Buoy for Recording Ocean Wave Height and Period, WAVES:Sept 74:254

Blaisdell, Fred W.
Energy Loss at Pipe Junctions, with Philip W. Manson, IR3:Sept 67:59:5411
  Dsc: W. Hall C. Maxwell, IR2:June 68:280:5964; Bezzam C. Syamala Rao and Nagar S. Lakshmana Rao, IR3:Sept 68:352:6088; U. N. Chindarkar and Subir Kar, IR4:Dec 68:523:6261
  Clo: IR2:June 70:218:7311
  TR:135:833
Dsc, with Philip W. Manson and Kesavarao Yalamanchili, HY4:July 68:1168:6015, of "Hydraulics of Spatially Varied Pipe Flow", HY6: Nov 67:281:5599
Dsc, IR4:Dec 69:630:6930, of " Entry Velocity Control Limits Drain Sedimentation", IR4:Dec 68: 455:6300
Dsc, IR2:June 71:325:8156, of "Irrigation Channel Structures, Victoria, Australia", IR2:June 70:131: 7371
Dsc, with Kesavarao Yalamanchili, HY12:Dec 72: 2236:9391, of "Siphons: Some Scale-Effects in Models", HY1:Jan 72:45:8629
Dsc, with Clayton L. Anderson, HY12:Dec 72:2237: 9391, of "Siphons: Some Scale-Effects in Models", HY1:Jan 72:45:8629
Dsc, HY12:Dec 72:2239:9391, of "Siphons: Some Scale-Effects in Models", HY1:Jan 72:45:8629
Dsc, HY8:Aug 74:1172:10696, of "Air Flow in Combined Intake and Shaft Spillway", HY7:July 73:1097:9859

Blakeley, Max
Dsc, SA3:June 68:565:5965, of "Distribution of Pesticides in California", SA5:Oct 67:27:5510

Blakeley, Roger W.G.
Prestressed Concrete Sections with Seismic Loading, with Robert Park, ST8:Aug 73:1717:9906
  TR:139:434

Blakely, Loren E.
Dsc, with Richard D. Pomeroy, SA3:June 68:563:5965, of "Distribution of Pesticides in California", SA5:Oct 67:27:5510

Blakey, Frank A.
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, with John L. Heiman, TB:73:III-25-775

Blakey, Lewis H.
Dsc, CE:Apr 72:71, on Recycling Civil Engineering Education, CE:Oct 71:101

Blakney, William G.G.
Dsc, CE:Apr 72:59, on Anti-Technology--The New Myth, CE:Jan 72:68
Dsc, CE:July 73:22, on Where, Oh Where, Is Your Right-Of-Way Line? , CE:Mar 73:52

Blanc, Frederick C.
See Richard J. Thornton, EE4:Aug 73:535:9946

Blanchard, Bruce
See Michael Alexander, CE:Aug 69:51

Blanchard, Bruce J.
See Donn G. DeCoursey, HY7:July 70:1435:7405

Blanchard, George L.
Dsc, with Andre Reimbert, ST2:Feb 69:282:6373, of "Bin Loads", ST4:Mar 68:1011:5916

Blanchet, Ch.
Mardyck Lock Acts as Salt-Water Barrier, with B. Quetin, WW4:Nov 72:561:9387
TR:138:600

Blanck, Jan A.
Shotcrete Durability and Strength - A Practical Viewpoint, SUSS:July 73:320

Blaney, Harry F.
Dsc, with William Wen-Gong Yeh, IR1:Mar 69:251:6428, of "Pan Evaporation and Evapotranspiration from Climatic Data", IR2:June 68:243:5988
Dsc, with William Wen-Gong Yeh, IR4:Dec 69:643:6930, of "Water Consumption in the Lower Colorado River Valley", IR1:Mar 69:65:6457
See William Wen-Gong Yeh, IR1:Mar 69:237:6428
See William Wen-Gong Yeh, IR1:Mar 69:246:6428

Blaylock, Albert J.
Reinforced Masonry Engineering Handbook by J. E. Amrhein (Book Review), CE:Dec 72:11

Blaze, James Robert
Restructuring Freight Transportation in Chicago, TE3:Aug 72:577:9115
TR:138:353

Blench, Thomas
Regime Theory Design of Canals with Sand Beds, IR2:June 70:205:7381
Errata: IR3:Sept 71:532:8346
TR:136:1001
Dsc, HY4:Apr 70:1057:7189, of "Friction-Factors for Flat-Bed Flows in Sand Channels", HY4:July 69:1227:6678
Dsc, HY10:Oct 70:2126:7568, of "Similarity in Unlined Irrigation Canal Systems", HY1:Jan 70:13:6993
Dsc, HY12:Dec 70:2659:7711, of "Erodibility of Channels With Cohesive Boundary", HY3:Mar 70:755:7156
Dsc, HY11:Nov 71:1908:8483, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams", HY1:Jan 71:101:7786
Dsc, HY1:Jan 72:284:8620, of "Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division", HY4:Apr 71:523:8076
See Richard H. Cooper, HY5:May 72:827:8873

Blessis, George H.
Construction Education at North Carolina State, CEE:Feb 74:1-613

Blesso, Francis J.
HUD Sewer Policy in Urban Renewal Areas, UP1:July 72:33:9035
TR:138:246

Blest, David Charles
Streamlines in Two-Dimensional Laminar Branch Flows, HY1:Jan 72:171:8656
TR:138:127

Bletzacker, Richard W.
Book Review: Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, CE:June 73:34

Blevins, Ralph W.
Moving Walks, BP73:Dec 73:463
Variable Speed Walkways, with Victor J. Dietz and Richard D. Burson, MTI:May 72:347

Blight, Geoffrey E.
Flow of Air Through Soils, SM4:Apr 71:607:8026
TR:137:422
Fracture of Pavement Materials, TE4:Nov 73:801:10139
Dsc: Edwin T. Brown, TE4:Nov 74:1002:10901
TR:139:499
Indirect Determination of In Situ Stress Ratios in Particulate Materials, EFSE:Aug 74:350
In Situ Strength of Rolled and Hydraulic Fill, SM3:May 70:881:7273
Dsc: Carl-Eric R. Wiesel, SM2:Feb 71:483:7866; Ravikumar Bhaskaran, SM3:Mar 71:584:7943
Clo: SM10:Oct 71:1485:8410
TR:136:1300
Permanent Deformation in Asphaltic Materials, TE1:Feb 74:263:10327

Blinco, Paul H.
Characteristics of Turbulent Boundary Shear Stress, with Daryl B Simons, EM2:Apr 74:203:10477
Measurement of Instantaneous Boundary Shear Stress, with Daryl B. Simons, HYB:Aug 73:43
See Emmanuel Partheniades, HY1:Jan 69:515:6323
See Robert P. Apmann, WW3:Aug 69:319:6724
See Emmanuel Partheniades, HY1:Jan 70:272:6988

Bliss, W. E., Jr.
Design And Construction Of The Makai Range Habitat, CEO-II:70:369

Block, Jacques V.
Planning Airports System in Paris Area, TE2:May 69:253:6535
Errata: TE2:May 70:244:7251
TR:135:337

Bluestein, Jeffrey L.
Rational Design of Light Gage Beams, with Atle Gjelsvik, ST7:July 70:1535:7421
Dsc: Wei-Wen Yu, ST12:Dec 70:2675:7714; Bandhuvula V. Subrahmanyam, ST3:Mar 71:1007:7944; Kothapalli Ramaiah Venkataramaiah and John Roorda, ST4:Apr 71:1376:8015; Shien T. Wang, ST5:May 71:1639:8084
Clo: ST12:Dec 71:2884:8557
TR:137:81

Blum, Werner
Roof Assembled on Ground, Hoisted into Place, with Philip Wesler, CE:Jan 74:44

Blumbert, Samuel B.
Dsc, CE:Apr 70:49, on The Highway Explosion, CE:Dec 69:71

Blume, John A.
Analysis of Dynamic Earthquake Response, State-of-Art Report 3, TB:73:Ib-6-191

Building Columns under Strong Earthquake Exposure, ST9:Sept 71:2351:8398
TR:137:802
Probability, Statistics and Decision-Making for Civil Engineers, by Jack R. Benjamin and C. Allin Cornell (Book Review), CE:Jan 71:12
Vibrations of Soils and Foundations, by F.E. Rickart, Jr., J.R. Hall, Jr., and R.D. Woods (Book Review), CE:Nov 70:23
Dsc, ST4:Apr 69:776:6486, of "Probabilistic Structural Analysis and Design", ST7:July 68:1665:6019
Dsc, ST6:June 69:1374:6583, of "Inelastic Earthquake Response of Tall Steel Frames", ST8:Aug 68:1907:6061
See Nathan M. Newmark, PO2:Nov 73:287:10142

Blyskowski, A. H.
Dsc, HY9:Sept 71:1565:8345, of "Flood Regulation by Columbia Treaty Projects", HY1:Jan 71:143:7798
Dsc, HY1:Jan 72:296:8620, of "Flood Control Release Optimization Using Methods from Calculus", HY5:May 71:691:8117

Bo, Gian Mario
Dsc, ST2:Feb 72:520:8684, of "Relaxation Tests on Alloy Steel Bars", ST5:May 71:1533:8128

Boardman, Richard M.
See Walter A. Lyon, CE:Apr 70:32

Boardman, Thomas J.
See Walter H. Kraft, TE1:Feb 72:103:8740

Board of Direction, ASCE
ASCE'S Response to the Spencer Proposals, CE:Aug 70:46
TR:136:613

Bobisch, William J.
Material Safety Requirements of Hyperbaric Facilities, with Michael Yachnis, ST7:July 72:1465:9019
TR:138:322

Bock, Paul K.
Bureau of Reclamation Examination Program, IMROD:Sept 73:50
See Melvin A. Jabara, IMROD:Sept 73:541

Bock, R. W.
Problems Encountered in Construction of Dam Foundations, with W. G. Harber and M. Arai, EFFD:Mar 74:87
See Fred C. Walker, SM10:Oct 72:1099:9272

Bodig, Jozsef
See James R. Goodman, ST11:Nov 70:2301:7682
See Adam Al-Dabbagh, ST3:Mar 72:569:8784

Bodner, Richard M.
Optimal Routing of Refuse Collection Vehicles, with E. Alan Cassell and J. Peter Andros, SA4:Aug 70:893:7451
 Dsc: Robert P. Stearns, SA6:Dec 70:1469:7713; David H. Marks and Jon C. Liebman, SA1:Feb 71:130:7865
 Clo: SA5:Oct 71:764:8409
 TR:139:13

Bodziuch, John J.
Concrete Formwork for Washington, D.C. Metro, CE:July 74:76

Boehler, J. P.
Dsc, with Jean-Pierre Giroud and Jean-Pierre Obin, SM10:Oct 71:1493:8410, of "Bearing Capacity of Footings on Anisotropic Soils", SM6:Nov 70:1967:7677

Boehmer, Jan Willem
See John T. Christian, SM4:July 70:1435:7437
See John T. Christian, SM7:July 72:693:9030

Boericke, Ralph R.
Hydraulics and Thermal Dispersion in an Irregular Estuary, with Darryl W. Hall, HY1:Jan 74:85:10282
 Errata: HY12:Dec 74:1848:10974

Bogan, Richard H.
See Charles R. Ott, SA2:Apr 70:455:7233
See Charles R. Ott, SA1:Feb 71:1:7879
See LaVere B. Merritt, EE1:Feb 73:35:9578

Bogdanoff, John L.
See Michael C. Bernard, EM3:June 71:755:8194

Bohan, Joseph P.
Mechanics of Stratified Flow Through Orifices, with John L. Grace, Jr., HY12:Dec 70:2401:7757
 Dsc: Danny L. King and Perry L. Johnson, HY9:Sept 71:1535:8345
 Errata: HY1:Jan 72:274:8620
 Clo: HY8:Aug 72:1450:9076
 TR:137:541

Bohannan, Billy
FPL Timber Bridge Deck Research, ST3:Mar 72:729:8779
 TR:138:169
Structural Engineering Research in Wood, ST2:Feb 68:403:5784
 TR:135:418
See Joseph A. Liska, ST12:Dec 73:2345:10230

Boileau, P. L.
Summary of Workshop B - Shotcrete Design, SUSS:July 73:232

Boitano, Joseph D.
See Carl E. Basore, SM6:Nov 69:1303:6892
See Carl E. Basore, PISST:71:203

Bolch, W. Emmett
See William A. Goldsmith, SA5:Oct 70:1115:7611

Bole, James B.
Wave Energy Transfer Mechanisms in Wind-Wave Tunnels, WW4:Nov 74:325:10932
Dsc, WW2:May 73:288:9694, of "Physical Scales for Generation of Wind Waves", WW2:May 72:163:8879

Boley, Lucius R.
Creativity and the Civil Engineer, CEWAU:74:6

Bolognesi, Arnoldo J.L.
Extended Use of Oedometer Test Data, TN: GT9:Sept 74:1075:10774
Dsc, SM1:Jan 69:379:6324, of "Stress Path Method", ST6:Nov 67:309:5613
Dsc, SM3:May 69:909:6525, of "Settlement of Spread Footings on Sand", SM3:May 68:735:5959
Dsc, SM6:Nov 70:2155:7643, of "Tests on Instrumented Piles, Ogeechee River Site", SM2:Mar 70:561:7170
Dsc, SM4:Apr 71:702:8014, of "Nonlinear Analysis of Stress and Strain in Soils", SM5:Sept 70:1629:7513
See O. A. Varde, 4PCSM:71:II179
See Carlos A. Micucci, 4PCSM:71:II309

Bolton, C.
See J. Aguirre, TB:73:C-P-466

Bolton, Gerald
See Carl E. Murphree, HY2:Mar 68:515:5868

Bolton, Richard
Stresses in Circular Plates on Elastic Foundations, EM3:June 72:629:8972
 Dsc: Peter M. Byrne, EM2:Apr 73:415:9636
 Clo: EM5:Oct 73:1095:10041
 TR:139:62

Bolvin, Richard
La Protection des Plages du Littoral du Lac Saint-Jean, with Yvon Cousineau, CE13:72:II-1485

Bomba, John G.
Annotated Bibliography of State-of-the-Art Articles for Pipelines in the Ocean. Progress Report of the Task Committee on Pipelines in the Oceans, Committee on Pipeline Planning, PITO:74:81
Final Report of the Task Committee on Pipelines in the Oceans — Introduction, PITO:74:1

Bomze, Herman
Dynamic Response Of Submerged Sphere, CEO-II:70:511

Bonakdarpour, Bijan P.
See Conrad P. Heins, Jr., ST4:Apr 72:831:8835

Bonar, Albert J.
Research on Pipeline Flotation, with Osman I. Ghazzaly, TE2:May 73:211:9718
  TR:139:235

Bondurant, Donald C.
Dsc, HY11:Nov 72:2051:9305, of "River Bed Degradation After Closure of Dams", HY4:Apr 72:591:8814

Bonforte, Gilbert A.
Longest Vehicular Rock Tunnel in North America, CE:Oct 74:56

Bonneau, William F.
See Terence J. McGhee, EE6:Dec 73:883:10205

Bonnefille, Rene
Methodes de Mesure et Traitement de la Houle, CE13:72:I-315

Bonton, R. Brian
See Kenneth W. Heathington, PP1:Oct 71:65:8457

Bonvissuto, Vincent
See Milton Alpern, CEE:Feb 74:1-913

Booker, John R.
Torsion of Multilayered Rectangular Section, with Sritawat Kitipornchai, EM5:Oct 71:1451:8415
  Dsc: Edwin F. Strandberg, EM5:Oct 72:1306:9221
  Clo: EM3:June 73:597:9759
  TR:139:3
Dsc, SM4:Apr 73:358:9639, of "Consolidation of a Layer Under a Strip Load", SM7:July 72:693:9030

Boominathan, S.
Dsc, SM3:May 70:1049:7249, of "Settlement of Building on Deep Compressible Soil", SM3:May 69:769:6547

Boon, J. D., III
See W. Harrison, 12CEC:71:1201

Boonyakachon, Kach
See Masaru Tanaka, EE5:Oct 73:749:10035

Boos, George Frederick, Jr.
Memoir of, TR:138:617

Booth, Weldon S.
Footblock Design, CE:Aug 74:59

Borchardt, Jack A.
See Mark J. Hammer, SA5:Oct 69:907:6845

Borcherding, John D.
Construction Productivity and Job Satisfaction, with Clarkson H. Oglesby, CO3:Sept 74:413:10826
Dsc, CO1:July 73:219:9822, of "Motivation of Construction Craftsmen", CO2:Sept 72:257:9185

Borden, Russell C.
Application of Epoxy Resins in Tunnel Lining Concrete Repair, with Carl E. Selander, CO2:Sept 72:161:9180
  Errata: CO1:July 73:218:9822
  TR:139:206

Bordovsky, David G.
See Edward A. Hiler, OIDS:72:579

Bores, P. S.
Sea Observation in Coastal Areas: The Spanish Offshore Network, WAVES:Sept 74:13

Boresi, Arthur P.
See Henry L. Langhaar, EM5:Oct 70:753:7635
See John L. Ford, EM2:Apr 74:173:10476

Borg, Neville
Re-Cycling of Land Resources, PWS:Nov 72:39

Borg, Robert F.
Dsc, CE:July 71:40, on Engineering and Society: A Contemporary Challenge, CE:Feb 71:51
Dsc, CO1:July 73:213:9822, of "Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts", CO1:Mar 72:103:8781
Dsc, CO4:Dec 74:658:10970, of "Subsurface Construction Contracts—A Contractor's View", CO2:June 74:153:10608

Borges, J. Ferry
Stiffness and Crack Control, Summary, TB:73:III-24-727

Borgin, Karl B.
Laminated Wood Beams Reinforced with Steel Strips, with Gerrit F. Loedolff and Gerald R. Saunders, ST7:July 68:1681:6020
  Dsc: Anatol A. Eremin, ST3:Mar 69:532:6430
  Clo: ST1:Jan 70:131:6990
  TR:135:682

Borgman, Leon Emry
Confidence Intervals for Ocean Wave Spectra, CE13:72:I-237
Maximum Wave Height Probabilities for a Random Number of Random Intensity Storms, 12CEC:71:53
Ocean Wave Simulation for Engineering Design, WW4:Nov 69:557:6925
  TR:136:1213
Probabilities For Highest Wave In Hurricane, WW2:May 73:185:9705
  TR:139:280
Statistical Reliability of Computations Based on Wave Spectral Relations, WAVES:Sept 74:362
See Narayana N. Panicker, 12CEC:71:117
See Per Moller Bruun, 12CEC:71:473

Borrelli, John
Treated Water Storage for Design Capacity Reduction, with Thomas M. Rachford, EE4:Aug 73:517:9941
  TR:139:267
See William E. Hart, IR2:June 72:267:8976

Borta, Michael L.
See Norman D. Witteveen, TE3:Aug 74:553:10721

Bortz, Seymour A.
Recycling Wastes for Structural Application, with Murray A. Schwartz, EM2:Apr 73:249:9648
  Dsc: Krishnaiyengar Rajagopalan, EM2:Apr 74:459:10439
  Clo: EM6:Dec 74:1256:10972
  TR:139:272
See Madan M. Singh, SUSS:July 73:200

Bostleman, Richard L.
See Tung Au, CO1:July 69:25:6647

Botsai, Elmer E.
Designing Against Infiltration, State-of-Art Report 4, TB:73:Ia-12-1131

Bottoms, Eric E.
Economic Location of Locks, TE1:Feb 69:77:6397
  Dsc: Alan R. Chandler, TE4:Nov 69:700:6868; John J. Franco, TE4:Nov 69:700:6868; Herbert D. Vogel, TE4:Nov 69:704:6868; Carl H. Gaum, TE1:Feb 70:117:7048; Edmund H. Lang, TE1: Feb 70:119:7048; John P. Davis, TE1:Feb 70: 121:7048; Marvin J. Barloon, TE2:May 70:244: 7251; Minard I. Foster, TE3:Aug 71:576:8268
  Clo: TE1:Feb 72:141:8685
  TR:137:32
Dsc, WW1:Feb 70:161:7049, of "Tonnage Capacity of Locks", WW2:May 69:201:6577

Boughton, Neville O.
Elastic Analysis for Behavior of Rockfill, SM5:Sept 70:1715:7532
  TR:136:1042

Boulware, Robert L.
California Seals Salt-Damaged Bridge Decks, with Arthur L. Elliott, CE:Oct 71:42
  TR:137:612

Bourgeois, Claude
Bayonne River Bridge, CE:June 69:43
  TR:135:431

Bourke, Robert H.
See Bard Glenne, WW4:Nov 72:433:9371

Bourodimos, Efstathios L.
Characteristics of Open Tube Wave Attenuation System, with Arthur T. Ippen, WW4:Nov 68:465: 6234
  Dsc: Melville S. Priest, WW2:May 69:259:6528; T. Milne Dick, WW3:Aug 69:430:6709; Wyndham J. Roberts, WW3:Aug 69:433:6709; A. O. Ofuya, WW3:Aug 69:435:6709; Adel M. Kamel, WW4:Nov 69:588:6869
  Clo: WW3:Aug 70:723:7443
Wave Transformation in an Open Channel Transition, with Arthur T. Ippen, HY5:Sept 68: 1317:6128
  Dsc: K. N. Shivashankara Rao, HY4:July 69: 1475:6641
  TR:135:747

Bouthillier, Patrick H.
Oxygen Depletion in Ice Covered River, SA2:Apr 72:341:8841
  Dsc: Thiruvenkatachari Viraraghavan, SA6:Dec 72:1058:9393; Clarence R. Forsberg, SA6:Dec 72:1058:9393
  Clo: EE3:June 73:380:9758
  TR:139:209

Bouton, Harry R.
Memoir of, TR:139:561

Bouwer, Herman
Ground Water Recharge Design for Renovating Waste Water, SA1:Feb 70:59:7096
  TR:136:468
Infiltration of Water into Nonuniform Soil, IR4:Dec 69:451:6937
  Dsc: D. L. Brakensiek, IR3:Sept 70:358:7498; Yu-Si Fok, IR4:Dec 70:492:7712
Planning and Interpreting Soil Permeability Measurements, IR3:Sept 69:391:6775
  TR:135:1014
Salt Balance, Irrigation Efficiency, and Drainage Design, IR1:Mar 69:153:6465
  Dsc: Abdelwahab M. Amer, IR4:Dec 69:646: 6930; Leon Bernstein, IR4:Dec 69:648:6930
  Clo: IR3:Sept 70:349:7498
  TR:135:995
Salt Penetration Technique for Seepage Measurement, with R. C. Rice, IR4:Dec 68:481: 6304
  Dsc: Robert L. McFall, IR4:Dec 69:638:6930
  Clo: IR3:Sept 70:344:7498
  TR:135:912
What's New in Deep-Well Injection?, CE:Jan 74:58

Bouwkamp, Jack G.
Large Diameter Pipe Under Combined Loading, with R. M. Stephen, TE3:Aug 73:521:9907
  TR:139:346
Ultimate Strength of Concrete Box Girder Bridge, with Alexander C. Scordelis and S. Tanvir Wasti, ST1:Jan 74:31:10293
  Dsc: Lennart G. Elfren, ST12:Dec 74:2526:10977
See Alexander C. Scordelis, ST1:Jan 70:65:7016
See James M. Becker, ST1:Jan 72:37:8624
See Alexander C. Scordelis, ST10:Oct 73:2031:10069

Bouws, E.
See H. M. van Aken, WAVES:Sept 74:281

Bowden, Nicholas White
Memoir of, TR:137:1053

Bowen, Anthony J.
Edge Waves and the Littoral Environment, CE13:72: II-1313

Bowen, F. M.
See W. H. Arch, TB:73:Ia-4-823

Bowen, Gordon
Metrication Progress in the United Kingdom, PP4: Oct 72:511:9261
  TR:138:523

Bower, Blair T.
Residuals in Manufacture of Paper, with George O.G. Lof and William M. Hearon, EE1:Feb 73:1: 9543
  Dsc: Cheng H. Chiang, EE5:Oct 73:756:10035
  Errata: EE3:June 74:762:10564
  TR:139:29
See W. Charles Howe, IR4:Dec 70:387:7721
See Daniel P. Loucks, EE6:Dec 73:813:10202

Bower, Charles A.
Salt and Water Balance in Coachella Valley, California, with James R. Spencer and L. O. Weeks, IR1:Mar 69:55:6437
  Dsc: Raymond A. Hill, IR4:Dec 69:641:6930
  Clo: IR3:Sept 70:347:7498
  TR:135:965

Bower, John E.
Design of Beams With Web Openings, ST3:Mar 68: 783:5869
  Dsc: Anatol A. Eremin, ST2:Feb 69:272:6373; Frank J. Marino, ST2:Feb 69:272:6373
  TR:135:471
Predicted Pullout Strength of Sheet-Piling Interlocks, SM10:Oct 73:765:10077
  TR:139:446
Suggested Design Guides for Beams with Web Holes, ST11:Nov 71:2707:8536
  Dsc: Michael M. McCormick, ST12:Dec 72:2814: 9395
  Clo: ST6:June 73:1312:9763
  TR:139:7

Bower, Rodney
Should Engineers Engage in Collective Bargaining, CE:Oct 74:104

Bower, Warren H.
Lateral Analysis of Plywood Diaphragms, ST4:Apr 74:759:10494

Bowering, R. J.
See J. William Kamphuis, 12CEC:71:575

Bowers, C. Edward
Fluctuating Pressures in Spillway Stilling Basins, with Frank Y. Tsai, HY6:Nov 69:2071:6915
Dsc: Eric J. Lesleighter, HY6:June 70:1369:7310; M. H. Abdul Khader, HY7:July 70:1640:7384; Nani G. Bhowmik, HY7:July 70:1641:7384; Carl J. Huval and Frank M. Neilson, HY8:Aug 70:1754:7439
Clo: HY3:Mar 71:454:7940
TR:136:322
Dsc, with Frank Y. Tsai, HY1:Jan 74:236:10251, of "Damage to Karnafuli Dam Spillway", HY12:Dec 72:2155:9452
See Charles C.S. Song, EE6:Dec 73:785:10209

Bowler, E. H.
A Description of Three Wave Measuring Instruments, WAVES:Sept 74:562

Bowler, Richard Kyle
Memoir of, TR:135:1120

Bowles, Joseph E.
Dsc, SM6:June 73:478:9762, of "Bearing Capacity Theory From Experimental Results", SM12:Dec 72:1311:9411

Bowman, John C., Jr.
See Paul R. Fisher, EFFD:Mar 74:121

Bowman, Joseph R.
Dsc, WW2:May 68:258:5924, of "Dredging Fundamentals", WW3:Aug 67:45:5390

Bowman, Waldo G.
Engineers in Public Practice Face the Union Problem, CE:Apr 69:49
Dsc: Joseph P. Lawlor, CE:Sept 69:48
TR:135:509
Dsc, PWS:Nov 72:235, of "Application of New Technology to the Solution of Environmental Problems", PWS:Nov 72:219

Boyce, David E.
Assessing Impact of Urban Transportation, TE3:Aug 72:645:9111
Clo: TE3:Aug 73:682:9896
TR:139:43

Boyce, Earnest
Dsc, CE:Feb 72:42, on Professional Input to Engineering Education, CE:Aug 71:27

Boyd, Donald E.
See Tung D. Lin, EM3:June 71:829:8206
See Jack W. Vetter, EM1:Feb 72:177:8726
See D. Jack Bayles, ST5:May 73:853:9727

Boyd, Donald W.
Development of a Water Planning Model for Montana, with Theodore T. Williams, HYB:Aug 73:269

Boyd, Edwin I.
See Richard A. Schleusener, HY9:Sept 72:1515:9187

Boyd, J. L.
See Peter Ackers, WAVES:Sept 74:523

Boyd, Walter K.
Factors Affecting Environmental Performance of High-Strength Bolts, with W. S. Hyler, ST7:July 73:1571:9866
TR:139:418

Boyer, Leroy T.
Experiences With An Interactive Computing System, with John C. Casson, EC5:70:467
Experiences with Interactive Computing System, with John C. Casson, ST1:Jan 71:289:7853
TR:137:356
See Richard N. Wright, EC5:70:801
See Richard N. Wright, ST1:Jan 71:481:7856
See Robert C. Volkman, CO1:Mar 72:1:8756
See Antonio J. Vergara, CO4:Dec 74:543:11021

Boyer, Peter B.
Gas Supersaturation Problem in the Columbia River, IRS:Sept 72:205

Boyer, Robert E.
Predicting Pavement Performance, with Milton E. Harr, TE2:May 74:431:10533

Boyer, Walter C.
Containerization - A System Still Evolving, WW4:Nov 72:461:9317
TR:138:494

Boyko, Boris I.
See Keith L. Murphy, SA2:Apr 70:211:7200

Boyle, William C.
Pitfalls in Parameter Estimation for Oxygen Transfer Data, with Paul M. Berthouex and Thomas C. Rooney, EE2:Apr 74:391:10451
See C. Robert Baillod, SA2:Apr 70:525:7239
See Harold J. Jebens, SA3:June 72:547:8974
See Kenneth Ligman, EE1:Feb 74:201:10372

Boyne, Grahame G.
Dsc, SA6:Dec 71:945:8555, of "Optimization in Design of Hydraulic Network", SA2:Apr 71:141:8032

Bozozuk, Michael
Foundation Failure of the Vankleek Hill Tower Silo, PES:72:I-885
The Gloucester Test Fill, with Gerald A. Leonards, PES:72:I-299
Minor Principal Stress Measurements in Marine Clay with Hydraulic Fracture Tests, EFSE:Aug 74:333
Dsc, EFSE:Aug 74:370, of "Benefits of Tunnel Measurements", EFSE:Aug 74:366

Braaksma, John P.
Improving Airport Gate Usage with Critical Path, with John H. Shortreed, TE2:May 71:187:8090
TR:137:326

Brach, Philip L.
C.E. Technology Minority Student Considerations, CEE:Feb 74:1-296

Bracy, Lynwood R.
See Yin-Chao Yen, EM5:Oct 70:641:7607

Bradley, Keith T.
See Desmond M. Connor, OIDS:72:279

Bradley, Michael D.
Environment, Power, and Impact Assessment — The Politics of Information, EPCE:Aug 74:653

Bradley, Richard A.
Shearing Effects On Settling of Activated Sludge, with Ray B. Krone, SA1:Feb 71:59:7926
Dsc: P. Aarne Vesilind, SA4:Aug 71:544:8269; Mushti Narayana Rao, SA5:Oct 71:781:8409; Yerachmiel Argaman, SA5:Oct 71:783:8409; Richard I. Dick, SA6:Dec 71:942:8555
TR:137:890

Bradshaw, John P.
See H. Gordon Larew, CEE:Feb 74:1-406

Brady, Derek K.
See Loren D. Jensen, PO1:Jan 71:209:7802

Bragdon, Clifford R.
Noise Control in Urban Planning, UP1:Mar 73:15:9590
TR:139:78

Brahme, Shashikant B.
See Chintaman V. Gole, WW4:Nov 74:411:10903

Brakel, J.
List of Limit States, State-of-Art Report 2, TB:73:III-26-863

Brakensiek, D. L.
Dsc, IR3:Sept 70:358:7498, of "Infiltration of Water into Nonuniform Soil", IR4:Dec 69:451:6937

Bramlete, T. Taz
See John W. Leonard, TN: EM6:Dec 70:1277:7715

Bramnick, Z.
See Bernard E. Howard, HW1:June 68:61:5987

Brand, Daniel
Demand Responsive Transportation Systems, UTI:71:327
General Introduction, UTI:71:5
Introduction to Section III: Analyzing Innovative Transportation Alternatives, UTI:71:185
Introduction to Section I: Problem Definition, UTI:71:1

Brand, Edward W.
Load Tests on Small Foundations in Soft Clay, with Chai Muktabhant and Anan Taechathummarak, PES:72:I-903
Dsc: Jacob Feld, PES:73:III-174
See Za-Chieh Moh, PES:72:I-243

Brand, Lawrence H.
A Water Management Structure, CE:Oct 69:59
TR:135:944

Brandenburger, Arthur J.
Dsc, SU2:Sept 68:291:6091, of "Control for Antarctic Ice Cap Reconnaissance", SU1:Jan 68:1:5716

Brandes, Robert J.
See Frank D. Masch, 12CEC:71:2031
See Shih-Ang Zagustin, CE13:72:III-2429

Brandow, Gregg E.
See A. Stanley Lucks, TN: SM1:Jan 72:155:8618

Brandt, G. Donald
Design of Laterally Unsupported Beams, CE:Feb 74:60
Errata: CE:May 74:84

Brandtzaeg, Anton
Dsc, WW2:May 70:576:7252, of "Damage Function of Rubble-Mound Breakwaters", WW3:Aug 69:345:6743

Brannock, Robert N.
Dsc, CE:Apr 73:47

Bransby, Peter L.
Dsc, SM3:May 70:1061:7249, of "Model Study of Passive Pressure in Sand", SM4:July 69:969:6655
See W. D. Liam Finn, SM6:Nov 70:1917:7670
See W. D. Liam Finn, SM4:Apr 71:639:8039

Branson, Dan E.
Dsc, ST12:Dec 71:2907:8557, of "Finite Element Analysis of Reinforced Concrete Slabs", ST3:Mar 71:785:7963

Brant, Austin E., Jr.
Evaluation of Airfield Performance by Simulation, with Patrick J. McAward, Jr., TE2:May 74:505:10552
Urban Transportation Needs: Problems and Solutions, with Dana E. Low and Gerald P. Shea, NA:Mar 71:13
See Alvin S. Goodman, WW4:Nov 68:513:6204

Brar, Gurcharan S.
See Alfred G. Bishara, ST9:Sept 74:1883:10821

Brashear, H. R.
Processing and Analysis of Radioisotopic Sand Tracer (RIST) Study Data, with E. H. Acree, F. N. Case, P. A. Turner and David B. Duane, 12CEC:71:821
See E. H. Acree, 12CEC:71:815

Brater, Ernest F.
Wave Forces on Submerged Pipe Lines, with Roger Wallace, CE13:72:III-1703

Braudo, C. J.
Detection of Upward Percolation of Saline Lake Water, with F. Mero and A. Mercado, HY9:Sept 70:1795:7519
TR:137:137

Brauns, Dave
Dsc, CE:July 74:22, on San Antonio: Classic "Stop the Freeway" Case, CE:July 73:59

Brawner, C. O.
Stability Studies of a Footwall Slope in Layered Coal Deposit, with D. L. Pentz and J. C. Sharp, RM13:72:329

Bray, Dale I.
Dsc, HY12:Dec 72:2247:9391, of "Critical Review of Sediment Transport Experiments", HY5:May 72:827:8873
See Rolf Kellerhals, HY8:Aug 71:1165:8279

Bray, Oscar S.
ASCE and Social Issues, CE:May 71:58
Dsc: Mekong River Development, Warren E. Howland, CE:Sept 71:93; Robert A. May, CE:Dec 71:42
TR:137:354
ASCE's New President Outlines a Suggested Course, CE:Dec 71:38
TR:137:759
Breaking New Ground, PP1:Oct 71:1:8473
TR:137:824
Introduction to Session II -- Recycling of Land Resources, PWS:Nov 72:37
One Man's View of Registration Today, PP1:July 69:1:6653
Dsc: Murray I. Mantell, PP1:Sept 70:144:7549; Philip D. Roos, PP1:Sept 70:145:7549; Cornelius Wandmacher, PP1:Sept 70:148:7549
Clo: PP1:Oct 71:225:8408
TR:136:126
State of the Society, PP4:Oct 72:481:9291
TR:138:602
Welcoming Remarks at the Tall Buildings Conference, TB:73:C-27

Brebbia, Carlos A.
Geometrically Nonlinear Finite-Element Analysis, with Jerome J. Connor, EM2:Apr 69:463:6516
TR:136:731
See Robert A. Adey, EM6:Dec 73:1119:10206

Brebner, A.
See P. D. Treloar, 12CEC:71:257
See H. P. Riedel, CE13:72:I-587
See M. J. Paul, CE13:72:II-1217

Brechting, Frank J., Jr.
Prestressed Concrete for County Bridge Solves Maintenance Problems, CE:June 70:74
Errata: CE:Oct 70:66
TR:136:562

Bree, D.
Dsc, with H. S. Rao, HY3:Mar 73:540:9580, of "Computer Analysis of Water Distribution Systems: Part II--Numerical Solution", HY3:Mar 72:447:8782

Breen, John E.
Fabrication and Tests of Structural Models, ST6:June 68:1339:5989
Dsc: T. Ivan Campbell, ST3:Mar 69:501:6430; John S. Gero, ST3:Mar 69:503:6430
Clo: ST11:Nov 69:2520:6867
TR:135:640
See Wayne Henneberger, CE:June 74:54

Breitenbach, E. Allen
See Willem F. Brutsaert, IR3:Sept 71:405:8376

Brekke, Tor L.
Summary of Session III - European Shotcreting Practices, SUSS:July 73:96
See Richard E. Goodman, SM3:May 68:637:5937
See J. C. Sharp, RM14:73:481

Brenchley, David
Purdue Students Tackle Social Projects, with Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83
TR:139:151

Brenman, Harry
Environmental Considerations in Design of Transmission Lines, with Dwight A. Covington, PO3:June 70:369:7350
TR:136:1152

Brennan, Paul J.
See James A. Mandel, ST7:July 71:1947:8260

Brenner, R. Peter
See Donald H. Gray, IAWM:72:295

Brenner, Raymond M.
Plastic Relining of Small-Diameter Pipes, SA2:Apr 70:297:7216
TR:136:549

Brensers, D. Shankarachar
Dsc, with T. R. Chandrasekhara, HY8:Aug 70:1747:7439, of "Local Scour Around Bridge Piers", HY6:Nov 69:1919:6891

Bresler, Boris
Behavior of Reinforced Concrete under Repeated Load, with Vitelmo V. Bertero, ST6:June 68:1567:6013
Dsc: Anatol A. Eremin, ST3:Mar 69:528:6430
Clo: ST11:Nov 69:2523:6867
TR:135:672
Reinforced Concrete Column Response to Fire, with H. Bizri, TB:73:Ib-8-723
Stability, Summary Report, TB:73:III-23-631

Breth, Herbert
Axial Stress-Strain Characteristics of Sand, with Ernst Schuster and Prabhakar J. Pise, SM8:Aug 73:617:9919
Dsc: Eldon Burley, Roger C. Harvey and Arthur W.T. Daniel, GT5:May 74:559:10504
TR:139:387
See Thomas Kluber, SM11:Nov 71:1609:8484

Bretnall, William C.
See R. M. Gensert, TB:73:III-27-1069

Bretschneider, Charles L.
Revisions to Hurricane Design Wave Practices, CE13:72:I-167
See Shan-Hwei Ou, WAVES:Sept 74:728

Brett, Robert W.J.
See John J. Davis, EE3:June 73:301:9803

Brettle, Horace J.
Ultimate Strength Design of Composite Columns, ST9:Sept 73:1931:9975
TR:139:442

Breuning, Siegfried M.
Measuring and Interpreting Consumer Preferences, UTI:71:307

Breusers, Herman N. C.
See Alan T. Roper, HY7:July 70:1636:7384

Brewer, John H.
See Leonard J. Langfelder, SM3:May 70:1081:7249

Brewer, Kenneth A.
Straddling the Picket Fence, with Stanley L. Ring and Robert L. Carstens, CEE:Feb 74:1-6

Brezenski, Francis T.
Estuary Water Quality and Salmonella, NSCD:71:481

Brezonik, Patrick L.
Activated Sludge ATP: Effects of Environmental Stress, with James W. Patterson, SA6:Dec 71:813:8581
TR:137:902
Chemistry of N and Mn in Cox Hollow Lake, Wis., Following Destratification, with Joseph J. Delfino and G. Fred Lee, SA5:Oct 69:929:6850
Errata: SA4:Aug 70:1012:7441
TR:136:790
See James W. Patterson, SA4:Aug 70:775:6706
See Earl E. Shannon, SA1:Feb 72:37:8735

Brickell, D.
See Cecil M. Segedin, ST1:Jan 68:41:5711

Bridgefarmer, J. C.
See Roman Wolchuk, CE:Apr 70:71

Brier, Burgess Buell
Memoir of, TR:138:618

Brierley, Gary
Dsc, with David Thompson, SM11:Nov 72:1273:9306, of "Heave and Lateral Movements Due to Pile Driving", SM11:Nov 71:1513:8497

Briggs, Karl
Dsc, TE4:Nov 74:1000:10901, of "Planning Criteria for Bikeways", TE3:Aug 73:609:9928

Briggs, Richard E.
Overview of Transportation Legislation, PP3:July 73:381:9883
TR:139:400

Briggs, Robert C., Jr.
Pavement Crushed, Reused to Strengthen Runway Base, CE:Apr 73:82
TR:139:191

Bright, Thomas R.
Service Volumes for Functional Classification, TE4:Nov 70:561:7671
Errata: TE4:Nov 71:714:8486
TR:136:1189

Brightman, Thomas O.
See Robert I. Carr, CO1:Mar 74:59:10428

Brill, Earl D., Jr.
See Jon C. Liebman, SA5:Oct 71:786:8409

Brill, Murray I.
Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), CE:June 72:56
Dsc: James R. Libby, CE:Dec 72:58; Benton S. Murphy, CE:Dec 72:58
Clo: CE:Jan 73:80
TR:138:284
Dsc, CE:Jan 73:52, on An American Engineer in Israel, CE:June 72:63

Brinckloe, William D.
Graduate Management Curricula for Experienced Engineers, with Alfred C. Ingersoll and Ricardo Gonzales, Jr., CE:Sept 74:99
Mid-Career Administrative Training for Engineers, EI4:Oct 74:325:10866

Brindley, John H.
Dsc, SA5:Oct 72:795:9225, of "Systems Analysis of Water Distribution Networks", SA6:Dec 71:825: 8575

Brink, Marjorie
People Handling Systems at Tampa International Airport, MTI:May 72:223

Brink, Warner E.
See Daniel M. Oldenziel, HY7:July 74:935:10672

Brink-Kjaer, O.
See I. A. Svendsen, CE13:72:I-365

Brissette, Richard F.
See David J. D'Appolonia, SM3:May 68:735:5959

Bristor, John D.
Dsc, CO1:Jan 68:109:5701, of "Bidding Stratagies and Probabilities", CO1:Mar 67:75:5159
Dsc, CO2:Oct 68:261:6131, of "Business Failures in Construction", CO2:Sept 67:73:5453
Dsc, CO1:July 69:138:6640, of "Construction Personnel Management", CO1:Jan 68:95:5765
Dsc, CO1:July 69:139:6640, of "Bidding--Work Loading Game", CO2:Oct 68:127:6141
Dsc, IR4:Dec 69:603:6930, of "Competition for Recreation Water in California", IR3:Sept 68:295: 6109
Dsc, CO1:June 70:86:7308, of "Project Planning Game for Foundation Excavation", CO1:July 69:11: 6646
Dsc, PP1:Sept 70:151:7549, of "Civil Engineering Management in Public Practice", PP1:July 69:23: 6662
Dsc, PP1:Sept 70:153:7549, of "Position Paper on Civil Engineering Education, by the ASCE Committee on Engineering Education", PP1:July 69:29:6671
Dsc, ST9:Sept 70:1979:7567, of "Structural Timber Research at Forest Products Lab", ST12:Dec 69: 2891:6980
Dsc, CO1:Mar 71:167:7939, of "Construction Expediting", CO1:June 70:19:7356
Dsc, PP1:Oct 71:231:8408, of "Guide for Public Agency Professional Development", PP1:Sept 70: 55:7553
Dsc, with Howard L. Underberger, CO2:Nov 71:337: 8482, of "Report on Recommended Amendments to AIA General Conditions (A-201), Eleventh Edition, September, 1967, by the Committee on Contract Administration of the Construction Division", CO2:Oct 70:165:7640
Dsc, CO1:Mar 72:133:8748, of "A Profile of the Future Construction System", CO1:Mar 71:147: 7938

Bristow, B.
See D. J. Neff, IAWM:72:347

Britton, Paul W.
Improving Manual Solid Waste Separation Studies, SA5:Oct 72:717:9234
  Errata: EE4:Aug 73:561:9893
  TR:139:391

Broadbent, C. D.
Rheologic Aspects of Rock Slope Failure, with K. C. Ko, RM13:72:573

Broberg, Richard F.
Dsc, TE3:Aug 69:582:6708, of "People, Planning, and the Political Process", PL1:Oct 68:29:6158
Dsc, TE2:May 70:248:7251, of "Terminal Access and the Choice of Intercity Modes", TE3:Aug 69:463: 6731
Dsc, CE:June 70:47, on Urban Renewal-Past, Present and Future, CE:Sept 69:61
Dsc, TE4:Nov 70:654:7642, of "Interceptor Drains in Heavy Clay Soils", TE1:Feb 70:1:7066

Brock, Richard R.
Development of Roll-Wave Trains in Open Channels, HY4:July 69:1401:6704
  Dsc: Gunnar N. Thorsky and Phil C. Haggman, HY4:Apr 70:1069:7189
  Clo: HY11:Nov 70:2376:7641
Ground-Water Recharge Strip Basin-Experiment, with Abnish C. Amar, HY4:Apr 74:569:10503
Periodic Permanent Roll Waves, HY12:Dec 70:2565: 7764
  Dsc: V. S. Sampath, HY8:Aug 71:1251:8267
  Clo: HY9:Sept 72:1717:9156
  TR:137:671
Power Law Solutions for Vertical Plumes, HY9:Sept 70:1803:7523
  Dsc: Udayagiri Mohan Rao, HY4:Apr 71:629: 8012
  Clo: HY11:Nov 71:1900:8483
  TR:137:147

Brockenbrough, Roger L
Criteria for Heat Curving Steel Beams and Girders, ST10:Oct 70:2209:7638
  TR:136:1058
Experimental Stresses and Strains from Heat Curving, with Kenneth D. Ives, ST7:July 70:1305: 7400
  TR:136:989
Strength of Square-Tube Connections Under Combined Loads, ST12:Dec 72:2753:9425
  Dsc: Bharat L. Mehrotra, ST1:Jan 74:271:10253
  Errata: ST4:Apr 73:798:9640
  Clo: ST8:Aug 74:1706:10697
  TR:139:170
Structural Metals-Steel, CE:Aug 69:35
  TR:135:587
Survey of Curved Girder Bridges, CE:Feb 73:54
  TR:139:76
Theoretical Stresses and Strains from Heat Curving, ST7:July 70:1421:7410
  TR:136:1005

Brockman, Lawrence R.
See Curtis L. Craig, URC:72:167

Brodfeld, Bruno
See Robert J. McAllister, PO3:June 70:289:7319
See Ralph W. Gunwaldsen, PO4:Dec 71:767:8572

Brodie, Hilton J.
Dsc, CE:June 70:58, on Short-Cut Computation of Vertical Highway Curves, CE:Nov 69:68

Brodka, Jan
Optimization of Steel-Building Components, State-of-Art Report 4, with Josef Wilbik, TB:73:II-14-201

Broeders, W. P.A.
Wave Conditions and Coastal Structures, with G. van Loenen, WAVES:Sept 74:543

Brogan, Darryl K.
See Charles G. Culver, ST10:Oct 72:2291:9302

Broman, R.
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, SDNPF:Dec 73:151

Broms, Bengt B.
End Bearing and Skin Friction Resistance of Piles, with Lars Hellman, SM2:Mar 68:421:5846
  Dsc: Vasant N. Vijayvergiya and Lymon C. Reese, SM2:Mar 69:665:6429; Richard E. Mabry, SM2:Mar 69:668:6429; Dinesh Mohan and G. S. Jain, SM2:Mar 69:668:6429
  Clo: SM6:Nov 69:1538:6894
  TR:135:745
Settlements of Pile Groups, PES:73:III-181

Shear Strength of Reinforced Concrete Beams, ST6: June 69:1339:6636
  Dsc: Ake Holmberg, ST12:Dec 69:3003:6932; A. R. Santhakumar, ST4:Apr 70:846:7191
  Clo: ST12:Dec 70:1655:7714
  TR:136:148
See Robert D. Holtz, PES:72:I-435

Bromwell, Leslie G.
Recording Inclinometer for Measuring Soil Movement, with Christopher R. Ryan and William E. Toth, 4PCSM:71:II333
See W. David Carrier, III, SM11:Nov 73:979:10156

Bronzini, Michael S.
See Joseph L. Carroll, TE3:Aug 71:527:8311

Brookhart, George C.
Surface Treatment of High-Strength Bolted Joints, with I. H. Siddiqi and Desi D. Vasarhelyi, ST3:Mar 68:671:5851
  Dsc: Herbert M. Mandel, ST1:Jan 69:126:6325
  Clo: ST8:Aug 69:1768:6707
  TR:135:450

Brooks, Norman H.
Selective Withdrawal from Density-Stratified Reservoirs, with Robert C.Y. Koh, HY4:July 69: 1369:6702
  Dsc: Timothy W. Kao, HY4:Apr 70:1068:7189; Walter O. Wunderlich and Rex A. Elder, HY5: May 70:1207:7248
  Clo: HY12:Dec 70:2614:7711
  TR:136:101
See Loh-Nien Fan, SA6:Dec 68:1295:6262
See Svein Vigander, HY2:Feb 70:509:7085

Brooks, Royal H.
Drainage of Soil Profiles, with Corey Benedict, Gilbert L. Corey and Arthur T. Cores, IR3:Sept 71: 455:8389
  TR:137:654
See John C. Nibler, IRS:Sept 72:25

Broome, Kenneth R.
Floating Dry Docks for Ship Launching, with William S. Gaither, WW1:Feb 70:121:7110
  TR:136:831

Brosh, Aviel
See Michael Poreh, HY4:Apr 70:903:7208

Brosman, David R.
Dsc, with Joseph F. Malina, Jr., SA3:June 72:606: 8928, of "Backwashing of Granular Water Filters", SA6:Dec 71:903:8605

Brosz, Delvin D.
Irrigation Scheduling Using Mean Evapotranspiration Rates, OIDS:72:561

Brotchie, A. F.
Econometric Model to Aid in Urban Planning Decisions, with Ron Sharpe and A. Raymond Toakley, UP1:Mar 73:25:9587
  TR:139:53

Brotchie, John F.
Systematic Design of Multistory Buildings, ST7:July 74:1489:10678
Water Resources Planning Model, TN: HY10:Oct 71: 1801:8413
See Michael Raymond Toakley, CO2:Sept 72:149: 9163
See M. P.T. Linzey, TB:73:C-AC31-183

Brotton, Derick M.
See David Johnson, ST12:Dec 69:2589:6938

Broughton, Peter
See James F. Dickie, EM3:June 71:951:8217
See James F. Dickie, ST1:Jan 72:380:8623
See James F. Dickie, EM5:Oct 72:1308:9221
See James F. Dickie, EM1:Feb 73:1:9520

Broussard, Alan A.
See King-Yuen Chu, PO1:July 74:85:10654

Browand, F. K.
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, with Y. H. Wany, ISSF: Aug 72:493

Brown, Carey H.
See John M. Hayes, CE:Dec 71:63

Brown, Colin B.
Flexible Culverts Under High Fills, with David R. Green and Stuart Powsey, ST4:Apr 68:905:5888
  Dsc: Anatol A. Eremin, ST2:Feb 69:277:6373
  TR:135:513
Safety Of An Elastic Beam-Column, with Roger J. Evans, TN: ST3:Mar 72:805:8755

Brown, Curtis M.
Dsc, SU2:Sept 68:286:6091, of "Survey and Property Corner Monumentation", SU2:Oct 67:75:5513

Brown, Daniel H.
Dsc, CE:Mar 71:52, on Dsc, Automobile Exhaust Pollutants, CE:Nov 70:36

Brown, Daniel M.
See Karl L. Reichelt, EC5:70:377
See Karl L. Reichelt, ST1:Jan 71:237:7836

Brown, Desloge
Dam Inspection Program of the Federal Power Commission, IMROD:Sept 73:23

Brown, Donald N.
Flexible Pavement for Tomorrow's Major Airports, with George M. Hammitt, II and Donald M. Ladd, TE4:Nov 69:617:6874
  TR:136:223

Brown, Douglas R.
Compaction Grouting, with James Warner, SM8:Aug 73:589:9908
  Dsc: Robert Wade Brown, GT3:Mar 74:378: 10378; Hong Yau Wong, GT5:May 74:556: 10504
  Clo: GT12:Dec 74:1300:10973
  TR:139:372
See James Warner, GT6:June 74:653:10606

Brown, Edwin T.
Improved Compression Test Technique for Soft Rock, with Louis P. Gonano, TN: GT2:Feb 74:196: 10310
Strength of a Model of Jointed Rock, with David H. Trollope, SM2:Mar 70:685:7185
  Errata: SM1:Jan 71:257:7785
  TR:136:882
Strength of Models of Rock with Intermittent Joints, SM6:Nov 70:1935:7697
  TR:136:1280
Dsc, with John A. Hudson, EM5:Oct 72:1310:9221, of "Griffith Fracture Criterion and Concrete", EM6:Dec 71:1663:8597
Dsc, TE4:Nov 74:1002:10901, of "Fracture of Pavement Materials", TE4:Nov 73:801:10139
See John A. Hudson, RM13:72:773
See John A. Hudson, RM14:73:25

Brown, F. Stewart
Dam Safety-An Objective of Federal Licensing, PO1: Mar 67:67:5155
  Dsc: Alfred R. Golze, PO2:Oct 67:104:5479; Shu-t'ien Li, PO2:Oct 67:105:5479; Asit K. Biswas, PO1:May 68:109:5921
  Clo: PO2:Nov 68:237:6201
  TR:135:403
Waste Heat Disposal from Power Generating Stations, PO3:June 70:277:7317
  TR:136:982

Brown, Frederick R.
New ASCE Officers Installed in Kansas City: 1974, CE:Oct 74:92

Brown, George W.
Effects of Forest Management on Stream Temperature, IAWM:72:93

Brown, Gerald R.
Policy-Sensitive Model for Mode Split Planning, TE4:Nov 73:711:10123
TR:139:478
See V. Setty Pendakur, UP1:Apr 69:43:6518

Brown, Gilbert L.
Rock Stabilization at Morrow Point Power Plant, with Ernest D. Morgan and Jerry S. Dodd, SM1: Jan 71:119:7820
TR:137:278

Brown, Harry E.
Evaluating Watershed Management Alternativee, IR1:Mar 71:93:7952
Dsc: Chester C. Kisiel, IR4:Dec 71:654:8553; V. V. N. Murty, IR4:Dec 71:655:8553
Errata: IR3:Sept 72:499:9157
TR:137:911
Status of Pilot Watershed Studies in Arizona, IR1: Mar 70:11:7129
Errata: IR1:Mar 71:217:7941
TR:136:452

Brown, James C.
Physical Behavior of Flocculent Suspensions in Upflow, with Enrique LaMotta, SA2:Apr 71:209: 8054
Dsc: Anton A. Kalinske, SA5:Oct 71:792:8409; Denny S. Parker, SA5:Oct 71:793:8409; Wolfgang Merkel, SA5:Oct 71:795:8409; S. D. Shangarpawar and S. M. Dhabadgaonkar, SA6: Dec 71:948:8555; Igor Tesarik, SA1:Feb 72:259: 8682
Clo: SA5:Jan 72:777:9225
TR:137:892

Brown, John A.H.
Dsc, IR1:Mar 68:158:5826, of "Shihmen Embankment Dam in Taiwan, China", IR2:June 67: 1:5257

Brown, John F.
Environmental Aspects of Airport System Planning, TE4:Nov 70:543:7674
TR:136:1284

Brown, Karl B.
See George J. Mim Mack, CE:May 71:39

Brown, Linfield C.
Statistical Evaluation of Reaeration Prediction Equations, EE5:Oct 74:1051:10849
See Paul M. Berthouex, SA5:Oct 69:887:6836
See Stephen Walsh, EE3:June 73:333:9796

Brown, Lynn A.
Environmental Issues, Effects, and Solutions, IR73: Aug 73:511

Brown, Peter T.
Rectangular Loads on Inhomogeneous Elastic Soil, with Robert E. Gibson, TN: SM10:Oct 73:917: 10042
See Nicholas S. Trahair, ST8:Aug 70:1817:7442
See Ian K. Lee, ST11:Nov 72:2413:9352

Brown, Ralph D., Jr.
Planning's Role in Standards for Future Highways, TE2:May 71:227:8129
Dsc: William L. Knight, TE1:Feb 72:150:8685
Errata: TE4:Nov 72:9309
TR:137:910

Brown, Robert G.
Dsc, CE:Sept 73:31, on "Quo Vadis, ASCE?", CE: June 73:59
See Leonard A. LeSchack, CE:Feb 69:66

Brown, Robert J.
Pipeline Design to Reduce Anchor and Fishing Board Damage, TE2:May 73:199:9716
TR:139:230
See Douglas Anderson, IRS:Sept 72:353

Brown, Robert P.
See Charles G. Gunnerson, CEO-II:70:249
See Charles G. Gunnerson, SA6:Dec 70:1387:7769

Brown, Robert Wade
Dsc, GT3:Mar 74:378:10378, of "Compaction Grouting", SM8:Aug 73:589:9908

Brown, Russell H.
Dsc, with John C. Grogan, CO2:June 74:189:10563, of "Field Quality Control Test for Wetting Brick in Masonry Construction", CO1:July 73:5:9839

Brown, Stephen F.
Dynamic Response of Model Pavement Structure, with David I. Bush, TE4:Nov 72:1005:9363
Dsc: Kenneth R. Peattie, TE3:Aug 73:688:9896
Clo: TE1:Feb 74:281:10307
TR:139:103
Repeated Load Testing of a Granular Material, GT7: July 74:825:10684

Brown, Thomas L.
Dsc, with William H. Sammons, HY1:Jan 71:182: 7783, of "Flood Peaks from Small Southwest Range Watershed", HY3:Mar 70:773:7161

Browne, H. C.
Plastics in Construction, CE:Aug 69:39
TR:135:602

Browne, Robert Sewall
Pedestrian Precincts in City Centers, BP73:Dec 73: 248

Brownstein, Charles
Societal Factors and Tall Buildings, State-of-Art Report 2, with Leonard Ruchelman, TB:72:C-AC19-151

Browzin, Boris S.
Statistical Safety Factor Concept for Determining the Probable Maximum Flood, SDNPF:Dec 73:557
Dsc, with Gary H. Collison, SM1:Jan 71:250:7785, of "Bearing Capacity of Foundation on Sand", SM2: Mar 70:545:7158
Dsc, with Larry A. White, SM12:Dec 72:1404:9394, of "Approximate Solution to Flow Problems Under Dams", SM11:Nov 71:1573:8528
Dsc, HY4:Apr 74:614:10441, of "Nonlinear Equation of Unsteady Ground-Water Flow", HY3:Mar 73: 395:9589
Dsc, IR2:June 74:206:10568, of "Approximate Solution for Unconfined Seepage", IR1:Mar 73:71: 9607

Brozzetti, J.
Columns Design in Buildings, State-of-Art Report 1, with J. Fourcriat, TB:73:II-16-415

Bruce, John A.
Modern Applications of Traffic Control Devices, TE1:Feb 71:153:7906
TR:137:212

Bruch, John C., Jr.
Capillarity and Seepage from an Array of Channels, EM6:Dec 69:1403:6972
Clo: EM5:Oct 70:792:7574
TR:136:446

Nonlinear Equation of Unsteady Ground-Water Flow, HY3:Mar 73:395:9589
Dsc: Abnish C. Amar, HY2:Feb 74:330:10305; Boris S. Browzin, HY4:Apr 74:614:10441
Clo: HY10:Oct 74:1483:10839
TR:139:221

Brudeseth, J. T.
See Donald L. Woods, TE4:Nov 69:659:6896

Bruegging, Jerry J.
See Henry L. Langhaar, EM5:Oct 70:753:7635

Bruinette, Konstant E.
Kazerne Viaduct Collapse, with Alan J. Ockleston and Pieter C. Pretorius, ST2:Feb 74:335:10361
Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, TB:73:III-20-87

Brumund, William F.
Subsidence of Sand Due to Surface Vibration, with Gerald A. Leonards, SM1:Jan 72:27:8648
TR:138:133
Dsc, with Gordon W. Callender, Jr., SM8:Aug 72:830:9078, of "Consolidation at Constant Rate of Strain", SM10:Oct 71:1393:8447

Brungraber, Robert J.
Guide for the Design of Aluminum Transmission Towers, ST12:Dec 72:2785:9457
Errata: ST1:Jan 74:272:10253
TR:139:180
The Use of Lightweight Alloys in Tall Buildings, TB:73:Ia-3-623
See Jai B. Kim, PES:72:I-1105
See Jai B. Kim, TN: GT7:July 74:867:10641

Brunner, Dirk R.
Virus Inactivation During Phosphate Precipitation, with Otis J. Sproul, SA2:Apr 70:365:7220
Dsc: Malay Chaudhuri, David H. Foster and Richard S. Engelbrecht, SA1:Feb 71:118:7865
Clo: SA5:Oct 71:758:8409
TR:136:1253

Brunner, Frederick A.
Air Pollution Patterns in an Urban Street Canyon, with Karl B. Schnelle, Jr., EE2:Apr 74:311:10447

Brunnier, Henry J.
Eminent Rotarian, 89, says "get involved", CE:Jan 72:82

Bruschin, Jacques
Dsc, HY2:Feb 71:372:7863, of "Sedimentation Engineering, Chapter IV: Sediment Sources and Sediment Yields, Task Committee on Preparation of Manual on Sedimentation", HY6:June 70:1283:7337
Dsc, HY8:Aug 74:1183:10696, of "Energy Losses at 90° Pipe Junctions", HY9:Sept 73:1353:10022

Brusey, Walter G.
Investigations into Control of Seepage, IMROD:Sept 73:616

Brush, Birchard M.
Coastal Sand Management System, CE13:72:II-1503
See Robert L. Lowe, CE13:72:I-95

Brustkern, Richard L.
Analytical Treatment of Two-Phase Infiltration, with Hubert J. Morel-Seytoux, HY12:Dec 70:2535:7743
TR:136:1316

Brusven, Merlyn A.
See Robert J. Luedtke, HYB:Aug 73:259

Brutsaert, Wilfried
Review of Green's Function for Linear Open Channel, EM6:Dec 73:1247:10236
TR:139:535
Dsc, IR2:June 69:356:6581, of " Model Study of Boundary Effects on Ditch Drainage Division", IR4:Dec 68:493:6313
Dsc, HY2:Feb 72:406:8681, of "Mechanics of Sheet Flow Under Simulated Rainfall", HY9:Sept 71:1367:8373
See Rameshwar D. Verma, HY6:June 70:1331:7363
See Rameshwar D. Verma, HY8:Aug 71:1213:8337
See Rameshwar D. Verma, HY9:Sept 71:1493:8397
See John A. Mawdsley, HY1:Jan 73:99:9483

Brutsaert, Willem F.
Computer Analysis of Free Surface Well Flow, with E. Allen Breitenbach and Daniel K. Sunada, IR3:Sept 71:405:8376
TR:137:646
De Saint-Venant Equations Experimentally Verified, HY9:Sept 71:1387:8378
TR:137:649
Numerical Solution of Multiphase Well Flow, HY11:Nov 73:1981:10162
TR:139:451
Dsc, HY9:Sept 73:1632:9961, of "Perturbation Analysis of Two-Phase Infiltration", HY9:Sept 72:1527:9186

Bruun, Per Moller
Computer Modelling of Diffraction of Wind Waves, with Leon Emry Borgman, 12CEC:71:473
The History and Philosophy of Coastal Protection, CE13:72:I-33
Use of Volcanoes for Determination of Direction of Littoral Drift, with Gisli Viggosson, 12CEC:71:935
Dsc, WW3:Aug 68:380:6053, of "Preservation of Estuaries by Tidal Inlets", WW4:Nov 67:133:5583
Dsc, WW2:May 70:559:7252, of "Damage Function of Rubble-Mound Breakwaters", WW3:Aug 69:345:6743
Dsc, with Palmi Johannesson, WW1:Feb 72:113:8686, of "Irregular Wave Action on Rubble-Mound Breakwaters", WW2:May 71:279:8114
Dsc, WW2:May 72:281:8863, of "Offshore Floating Terminals", WW3:Aug 71:531:8295
Dsc, WW4:Nov 72:594:9310, of "Effect of Irregular Wave Trains on Rubble-Mound Breakwaters", WW1:Feb 72:1:8693
Dsc, with Franciscus Gerritsen, WW4:Nov 74:389:10903, of "Characteristics and Behavior of Pacific Coast Tidal Inlets", WW3:Aug 73:325:9927
Dsc, WW4:Nov 74:403:10903, of "Regime Equations and Tidal Inlets", WW3:Aug 73:393:9952
See Franciscus Gerritsen, WW2:May 69:231:6528

Bryan, Eric R.
Shear Flexibility and Strength of Corrugated Decks, with Wagih M. El-Dakhakhni, ST1:Nov 68:2549:6218
Dsc: J. C. Falkenberg, ST6:June 69:1382:6583
Clo: ST1:Jan 70:135:6990
TR:135:732
Stiffening Effect of Light Cladding, State-of-Art Report 4A, with J. M. Davies, TB:73:II-17-643

Bryant, A. H.
Cylindrical Shell Roofs with Draped Prestressing, with J. C. Scrivener, ST4:Apr 71:611:6496
TR:136:1083

Bryant, Edward A.
Dsc, CE:May 71:78, on The Alternative to Unionism, CE:Feb 71:43
See S. Brian McCann, CE13:72:II-1293
1973 Salary Survey, by the Committee on Employment Conditions of the Department of Professional Activities, EI2:Apr 74:127:10450

Bryant, Edward K.
Opportunities for American Engineers in Overseas Work, PP4:Oct 73:433:10084
TR:139:501
Opportunities for American Engineers in Overseas Work, CEWAU:74:227

Bryant, Kenneth A., Jr.
New Concepts in Suburban Drainage in Florida, with James N. Krider, IR73:Aug 73:471

Bryce, J. B.
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, with R. V. Elliott, ISSF:Aug 72:145

Bubenheim, Hans-Joachim
See Gert Konig, TB:73:III-23-613

Bubnov, S.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-518
Damage Evaluation, State-of-Art Report 5B, TB:73: Ib-6-247

Buchanan, George R.
Two-Dimensional Cable Analysis, ST7:July 70:1581: 7436
  Dsc: Frederic T. Mavis, ST12:Dec 70:2679:7714
  Clo: ST7:July 71:2020:8225
  TR:136:1021
Dsc, ST2:Feb 69:279:6373, of "Elasto-Plastic Analysis of Ribbed Plates", ST4:Apr 68:943:5892

Bucher, F.
See W. D. Liam Finn, SM5:May 71:808:8083

Buchert, Kenneth P.
Unreinforced Masonry Load-Bearing Walls, CE:Dec 73:64
Dsc, ST7:July 74:1532:10637, of "Shells for Standard Floor and Roof Elements", ST10:Oct 73:1999: 10096
Dsc, ST11:Nov 74:2352:10899, of "Shallow Spherical Shells Under Apex Loads", ST1:Jan 74:249:10262
See James O. Crooker, ST3:Mar 70:687:7180

Buchheim, Jerry F.
Irrigation Scheduling on the Minidoka Project, Idaho, OIDS:72:539

Buchignani, Albert L.
See Henry T. Taylor, PES:72:I-395
See James M. Duncan, SM9:Sept 73:687:10019

Buckingham, Phillip L.
Dsc, HY1:Jan 69:544:6323, of "Design of Optimal Hydraulic Networks", HY3:May 68:641:5930

Buckle, Ian G.
See Graham H. Powell, ST9:Sept 69:1953:6796

Buckner, R. B.
A New Philosophy on Preservation of Survey Evidence, SU2:Sept 70:213:7540
  Errata: SU1:May 71:148:8085
  TR:136:925

Bucks, Dale A.
Trickle Irrigation Design Requirements for Row Crops, IR73:Aug 73:673
See Lloyd E. Myers, IR3:Sept 72:341:9175

Budlong, Kathleen S.
See Robert H. Scanlan, EM4:Aug 74:657:10709

Buehl, Walker M.
See Suresh T. Gulati, TN: EM4:Aug 70:521:7444

Buehler, Bob J.
Reevaluating Spillway Adequacy of Existing Dams, IMROD:Sept 73:320

Buehler, John P.
Dsc, IR4:Dec 69:609:6930, of "Role of Irrigation in the West's Expanding Economy", IR4:Dec 68:401: 6281

Buehring, Norman L.
Developing Younger Member Communication, PP3: July 73:321:9876
  TR:139:335

Bufe, Charles G.
Strain and Tilt Observations Near an Active Fault, RM13:72:685

Bugge, William A.
BART in Operation—Innovations in Rapid Transit, TE2:May 74:335:10522
Private Engineering in Public Works, TE1:Feb 69:67: 6396
  Dsc: George L. Jackson, TE4:Nov 69:695:6868; Paul F. Keim, TE4:Nov 69:696:6868; Harvey W. Headley, TE4:Nov 69:697:6868
  Clo: TE3:Aug 70:435:7440
  TR:135:369

Bugliarello, George
Civil Engineering and National Goals in Bioengineering, PP4:Oct 72:645:9282
  TR:138:591
Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., HY7:July 72:1243:9072
  TR:138:397
Prospectives in Bioengineering Research for Civil Engineers, PP1:Oct 71:83:8461
  TR:137:982
Technological Innovation and Hydraulic Engineering, HY5:May 72:751:8897
  Dsc: Gordon R. Williams, HY10:Oct 72:1892: 9222
  TR:138:278
Toward A Socio-Technology of High Rise Buildings, with Harold Simon, TB:73:Ia-1-270
See Andrew K.C. Wong, EM6:Dec 70:1239:7779

Buhler, Johannes
See Noboru Sakuma, CE13:72:III-2005

Buick, Thomas R.
See Salim S. Hejal, TE2:Feb 71:1:7877

Bull, Keith D.
Seismic Design of Highway Structures, ST8:Aug 72: 1741:9135
  TR:138:393

Bullen, Allan G.R.
Strategies for Practical Expressway Control, TE3:Aug 72:599:9140
  TR:138:417
See James Cianciosi, UT73:May 73:33

Bullock, Geoffrey N.
Dsc, with Norman B. Webber, WW1:Feb 69:115: 6374, of "Laboratory Simulation of Sea Waves", WW2:May 68:159:5941

Bulsari, Bakul S.
Dsc, with Manhar C. Thakkar, ST8:Aug 70:1835: 7442, of "Optimum Elastic Design of Redundant Trusses", ST12:Dec 69:2589:6938
See Manhar C. Thakkar, ST1:Jan 72:61:8632
See Jawalker K. Sridhar Rao, ST5:May 72:1198:8861

Bunch, James E.
Mission of U.S. Lake Survey, SU2:Sept 70:181:7527
  TR:136:946

Bunch, James W.
Beach Nourishment at Virginia Beach, Virginia, 12CEC:71:967

Bunch, Thomas
Coordination of Mobile-Bed Hydraulics, HY6:Nov 69:1871:6884
Dsc: Thomas Maddock, Jr., HY6:June 70:1364:7310; Richard H. Cooper and Allan W. Peterson, HY9:Sept 70:1880:7497; Gerald Lacey, HY9:Sept 70:1886:7497
Clo: HY2:Feb 71:341:7863
TR:136:837

Bunk, David M.
See John B. Ciani, SU2:Nov 71:149:8496

Buragohain, Dhirendra N.
Analysis of Curved Box Girder Bridges, with Babu L. Agrawal, ST5:May 73:799:9715
TR:139:314

Buras, Nathan
Aqueduct Route Optimization by Dynamic Programming, with Ze'ev Schweig, HY5:Sept 69:1615:6779
Errata: HY8:Aug 70:1727:7439
TR:135:1060
Planning and Updating Farm Irrigation Schedules, with Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
TR:139:202

Burchert, Kenneth P.
Dsc, PO2:Dec 74:211:10976, of "Stability and Dynamic Analyses of Cooling Tower", PO2:Nov 73:339:10141

Burchinal, Jerry C.
See Syed R. Qasim, SA1:Feb 70:49:7078

Burco, Robert A.
Systems Innovations for Urban Transportation, with Clark D. Handerson, TE2:May 71:205:8126
TR:137:352

Burdette, Edwin G.
Behavior of Laterally Reinforced Concrete ColumnF, with Hubert K. Hilsdorf, ST2:Feb 71:587:7905
Dsc: Satyendra K. Ghosh, ST:July 71:2032:8225; V. Malakonda Reddy, K. Nagi Reddy and S. Ramaswamy Reddy, ST12:Dec 71:2894:8557
Clo: ST7:July 72:1657:9003
TR:137:519
Tests of Four Highway Bridges to Failure, with David W. Goodpasture, ST3:Mar 73:335:9627
Errata: ST12:Dec 73:2506:10185
TR:139:273

Burdin, Walter W.
Design of Carters Pumped Storage Project, PO3:June 70:383:7353
Dsc: Frederic L. Lawton, PO1:Jan 71:261:7784
Clo: PO3:July 71:721:8256
TR:136:1129

Bureau, Gilles J.
See Richard E. Goodman, RM14:73:441

Burgan, Ray W., Jr.
Bridge Construction Surveying, CO2:June 74:105:10602
Dsc: Peter D. Courtois, CO4:Dec 74:655:10970; Luke M. Snell, CO4:Dec 74:657:10970

Burges, Stephen J.
Probabilistic Short-Term River Yield Forecasts, with Allen E. Johnson, IR2:June 73:143:9785
Dsc: Edward A. McBean, IR1:Mar 74:96:10380
Clo: IR3:Sept 74:394:10771
TR:139:326
Some Factors Influencing Required Reservoir Storage, with Ray K. Linsley, HY7:July 71:977:8227
Dsc: E. M. Gosschalk and J. S. Colombi, HY4:Apr 72:717:8799
Clo: HY11:Nov 72:2038:9305
TR:137:993
Some Problems with Log-Normal Markov Runoff Models, HY9:Sept 72:1487:9169
TR:138:443
Dsc, HY10:Oct 71:1795:8407, of "Flood Control Release Optimization Using Methods from Calculus", HY5:May 71:691:8117

Burggraf, Frank B., Jr.
Dsc, CE:Dec 70:54, on Ecological Values and Regional Planning, CE:Aug 70:40

Burgh, John A.
See David M. Duttweiler, CE:May 69:47

Burgi, Philip H.
Seepage Effect on Channel Bank Stability, with Susumu Karaki, IR1:Mar 71:59:7968
Dsc: Richard P. Long, IR1:Mar 72:152
Clo: IR4:Dec 72:598:9392
TR:137:935

Burgreen, David
Higher Mode Buckling of Bimetallic Beam, with David Regal, EM4:Aug 71:1045:8305
TR:137:725
Thermal Buckling of a Bimetallic Beam, with Phillip J. Manitt, EM2:Apr 69:421:6509
Clo: EM1:Feb 70:89:7044
TR:136:745

Burkart, W. F.
Outline of Research Requirements for Construction, CO2:Oct 68:233:6189
Dsc: Carleton Coulter, III, CO1:July 69:141:6640; James Douglas, John W. Fondahl, Clarkson H. Oglesby and Henry W. Parker, CO1:July 69:142:6640
Clo: CO1:June 70:83:7308
TR:136:601

Burke, Harris H.
Current Practice in Abutment and Foundation Treatment, with Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
Errata: SM8:Aug 73:636:9892
TR:139:154
Soils Engineering For Wells Project, PO2:Mar 71:317:7976
Clo: PO1:June 72:170:8927
TR:137:220
See James G. Patrick, CE:Oct 70:61

Burke, Jack W.
See Schaefer J. Dixon, SM11:Nov 73:921:10133

Burke, Roger A.
Dsc, TE2:May 72:462:8862, of "Simulation of Waterway Transport Systems", TE3:Aug 71:527:8311

Burkhead, Carl E.
Analog Simulation of Activated Sludge Systems, with Don J. Wood, SA3:June 69:593:6631
Errata: SA2:Apr 70:628:7190
TR:135:9
Energy Concepts of Aerobic Microbial Metabolism, with Ross E. McKinney, SA2:Apr 69:253:6505
Dsc: Leo J. Hetling and Donald R. Washington, SA6:Dec 69:1206:6931
Clo: SA4:Aug 70:1002:7441
TR:135:1076

Burks, Lawrence H.
Dsc, CE:May 74:20, on California Tackles Highway Noise, CE:Nov 73:56

Burks, Samuel D.
Workshop A -- Advances in Concrete Technology, ECCD:72:153

Burlbaugh, Alfred G.
Dsc, TE4:Nov 71:718:8486, of "Wind Loading on Free-Swinging Traffic Signals", TE2:May 71:237:8140

Burley, Eldon
Dsc, with Roger C. Harvey and Arthur W.T. Daniel, GT5:May 74:559:10504, of "Axial Stress-Strain Characteristics of Sand", SM8:Aug 73:617:9919

Burmeister, Wesley J.
Wisconsin Paves Directly on Sand Subgrade, CE:Aug 73:52
TR:139:343

Burmister, Donald M.
Dsc, SM2:Feb 71:499:7866, of "Empirical Damping Constants for Sands and Clays", SM3:May 70:949:7296

Burn, Kenneth N.
See Carl B. Crawford, SM6:Nov 69:1325:6879
See Carl B. Crawford, PISST:71:235

Burnes, John A.
Dsc, SM2:Feb 71:509:7866, of "Decision Theory Applied to Settlement Predictions", SM4:July 70:1127:7390
Dsc, ST11:Nov 71:2767:8485, of "Bridge Engineer Looks at Esthetics of Structures", ST4:Apr 71:1227:8074
Dsc, ST1:Jan 73:217:9462, of "Structural Safety—A Literature Review", ST4:Apr 72:845:8842

Burnett, Eric F.P.
Influence of Joints in Panelized Structural Systems, with R. Clement S. Rajendra, ST9:Sept 72:1943:9207
Dsc: Prabhakara Bhatt, ST7:July 73:1672:9826
Clo: ST5:May 74:1143:10506
TR:139:127
Reinforced Concrete Beam-Column Connection, with Rajendra P. Jajoo, ST9:Sept 71:2315:8395
TR:137:793

Burnett, John A.
See John R. Sumner, GT1:Jan 74:53:10256

Burnett, Richard E.
Introductory Remarks, ECCD:72:347

Burnham, Robert
An Interdisciplinary Graduate Program, with Volker Hartkopf, Edward M. Krokosky and Irving J. Oppenheim, CEE:Feb 74:1-179

Burns, Robert E.
Urban Road Pricing Through Selective Parking Taxes, TE4:Nov 72:739:9316
TR:138:440

Buro, Michel
Prestressed Rock Anchors and Shotcrete for Large Underground Powerhouse, CE:May 70:60
Errata: CE:Sept 70:94
TR:136:427

Burrell, Montrust Q.
Minorities In Engineering - How Does Your Company Stack Up?, EI1:Jan 74:41:10271
Dsc: Sol E. Cooper, EI4:Oct 74:368:10835

Burroughs, Edward R., Jr.
Volume of Snowmelt Intercepted by Logging Roads, with Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770
Dsc: Charles F. Leaf, IR3:Sept 72:507:9157
Clo: IR1:Mar 73:113:9581
TR:138:145

Burson, Richard D.
See Ralph W. Blevins, MTI:May 72:347

Burton, Kenneth T.
See Thomas T.C. Hsu, ST1:Jan 74:209:10277

Burton, William J.
See Robert M. Sorensen, CE0-II:70:441

Busby, Henry R., Jr.
Response of Nonlinear Beam to Random Excitation, with Victor I. Weingarten, EM1:Feb 73:55:9530
TR:139:196

Busch, Arthur W.
See Edward D. Schroeder, SA2:Apr 68:193:5881

Busch, Charles D.
Dsc, with Eugene W. Rochester, Jr., IR2:June 72:330:8926, of "Model For Farm Irrigation in Humid Areas", IR3:Sept 71:369:8355

Busch, J. R.
Cultural Influences on Irrigation Drainage Water, with D. W. Fitzsimmons, G. C. Lewis, D. V. Naylor and R. D. Carlson, IRS:Sept 72:45

Busching, Fritz
See Alfred Fuhrboter, WAVES:Sept 74:649

Busching, Herbert W.
Construction Education in Civil Engineering, with J. Pat Cecil, CEE:Feb 74:1-607
Surface-Bonded Concrete-Block Panels, with Donald H. Hamilton and James G. Goree, EM2:Apr 74:359:10493

Buser, Warren M.
Containership Finger Pier has Unique Fender System, CE:Apr 71:58
TR:137:298

Bush, David I.
See Stephen F. Brown, TE4:Nov 72:1005:9363

Bush, Richard C.
Upgrading the Engineering Profession, CE:Jan 70:87

Butcher, Walter R.
Optimum Groundwater Level Decline in Eastern Washington, IRS:Sept 72:291

Butcher, William S.
Irrigation Engineering and National Goals, OIDS:72:13
Dsc, HY1:Jan 74:254:10251, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571
See Warren A. Hall, IR2:June 68:267:5993

Butler, Charles Mathews
Memoir of, TR:136:1338

Butler, Lorne J.
Eccentrically Loaded Welded Connections, with Shubendu Pal and Geoffrey L. Kulak, ST5:May 72:989:8874
TR:138:233

Butler, Stanley S.
Design Flood Frequency Curves, TN; HY3:Mar 71:479:7945
Discharge and Travel Time for Ground-Water Conduits, with David L. Gundlach, IR1:Mar 74:17:10393
Dsc, HY6:Nov 68:1583:6200, of "Experimental Examination of the Rational Method", HY6:Nov 67:353:5607

Butrico, Frank A.
Statewide Management -- What Does the Future Hold?, with James B. Coulter, CWFE:Mar 71:93
Statewide Management-What Does the Future Hold?, with James B. Coulter, SA1:Feb 72:247:8739
TR:138:244
Two Men Nominated For President Elect Frank A. Butrico, Nominee By Petition, CE:July 73:90
Views of Candidates for President-Elect: Butrico, CE:July 73:91

Butsch, Richard J.
Reservoir System Design Optimization, HY1:Jan 70: 125:7023
Dsc: Augustine O. Esogbue and Thomas L. Morin, HY10:Oct 70:2137:7568
Clo: HY5:May 71:731:8081
TR:136:408

Butterfield, Roy
See Geoffrey R. Tomlin, EM3:June 74:511:10604

Butts, Thomas A.
Fluorometer Calibration Curves and Nomographs, SA4:Aug 69:705:6728
Dsc: Thomas E. Bailey, SA2:Apr 70:633:7190; Frederick A. Kilpatrick, SA3:June 70:856:7313
Clo: SA6:Dec 70:1440:7713
TR:136:145
Statistical Assessment of DO in Navigation Pool, with Donald H. Schnepper and Ralph L. Evans, SA2:Apr 70:477:7235
Clo: SA4:Aug 71:529:8269
TR:136:881

Buyukozturk, Oral
Deformation and Fracture of Particulate Composite, with Arthur H. Nelson, EM3:June 72:581:8970
TR:138:292

Buzzell, James C., Jr.
See Dee Mitchell, SA4:Aug 71:453:8333

Bybordi, Mohammed
Ghanats of Iran: Drainage of Sloping Aquifer, IR3: Sept 74:245:10785

Bychenkov, Yu D.
See A. P. Vasiliev, TB:73:Ia-3-489

Byerly, Theodore C.
Farming, Forestry, and Water Quality, WQEF:Mar 70:115

Byers, William G
Impact from Railway Loading on Steel Girder Spans, ST6:June 70:1093:7341
Errata: ST4:Apr 71:1365:8015
TR:136:932
Dsc, ST6:June 68:1397:5995, of "Design of Hybrid Steel Beams, Report of Subcommittee 1 on Hybrid Beams and Girders, Joint ASCE-AAHSO Committee on Flexural Members", ST6:June 68: 1397:5995
Dsc, ST7:July 69:1592:6644, of "Prestressed Precast Concrete Railroad Bridges", ST12:Dec 68:2885: 6302
Dsc, ST11:Nov 70:2537:7644, of "Reliability-Based Structural Design", ST2:Feb 70:221:7072
Dsc, ST11:Nov 70:2545:7644, of "Stability Problems of Wood Truss Bridge", ST2:Feb 70:353:7095

Byrd, Lloyd G.
Criteria for Maintenance of Multilane Highways, Committee on Construction, Maintenance, and Operation of Highways, HW1:June 68:43:5986
Dsc: Bobby G. Page, TE2:May 69:393:6527
Clo: TE3:Aug 70:433:7440
TR:135:379
Criteria for Maintenance of Multilane Highways, Manual 53, prepared by the Committee on Construction, Maintenance, and Operation of Highways, 1971, 19 pp.
TR:136:1326

Byrne, Peter M.
Dsc, SM1:Jan 70:6989, of "Consolidation Under Constant Rates of Strain", SM2:Mar 69:519:6452
Dsc, SM9:Sept 72:963:9158, of "Consolidation at Constant Rate of Strain", SM10:Oct 71:1393:8447
Dsc, EM2:Apr 73:415:9636, of "Stresses in Circular Plates on Elastic Foundations", EM3:June 72:629: 8972
See W. D. Liam Finn, SM5:May 71:808:8083

Byrne, R. J.
See W. Harrison, 12CEC:71:1201

Byrne, Wayne S.
Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, CO1: Mar 72:103:8781
Dsc: Jack H. Eakin, CO1:July 73:212:9822; Robert F. Borg, CO1:July 73:213:9822
Clo: CO1:Mar 74:100:10377
TR:139:144

Cable, Carl C.
Optimum Dredging and Disposal Practices in Estuaries, HY1:Jan 69:103:6343
Dsc: John F. Riddell, HY6:Nov 69:2171:6866
Clo: HY5:May 70:1200:7248
TR:135:213

Cabrera, J. G.
Dsc, with I. J. Smalley, SM5:May 71:802:8083, of "Engineering Behavior and Structure of Compacted Clay", SM4:July 70:1171:7397

Caddie, George H.
Dsc, HY0:Oct 70:2141:7568, of "River Channel Patterns", HY1:Jan 70:201:7038
See Andrew M. Torrance, HY5:May 72:960:8859

Cafferty, Michael
Transit's Need for Assured Federal Aid, TE2:May 73:289:9735
TR:139:285
The Urban Transportation / Innovation Problem: Can New Concepts Help? - The Institutional Response, UTI:71:19

Cagley, James R.
Systems Approach to Building, CE:Apr 73:59
Dsc: Paul B. Richards, CE:Aug 73:20; James R. Cagley, CE:Aug 73:20
Clo: CE:Aug 73:20
TR:139:176
Dsc, CE:Aug 73:20, on Systems Approach to Building, CE:Apr 73:59

Cahill, Thomas H.
Evaluation of Phosphorus Dynamics in a Watershed, with Patricia Imperato and Francis H. Verhoff, EE2:Apr 74:439:10445

Cajiao, Ricardo
See Tomas Shuk, SM1:Jan 70:177:6996

Cakiroglu, Adam
Numerical Integration of Forced-Vibration Equations, with Gunay Ozmen, EM3:June 68:711:5968
Dsc: Robert O. Davis, Jr. and Phillip A. Abbott, EM1:Feb 69:297:6371
Clo: EM6:Dec 69:1435:6929
TR:135:558

Calcagni, E.
Characteristics of Chilean Tall Buildings, with G. Rudolfo Saragoni, TB:73:C-P-462
See Joaquin Monge, TB:73:III-21-310

Calder, David G.
Dsc, ST9:Sept 69:1991:6755, of "Continuous Method of Suspension Bridge Analysis", ST12:Dec 68:2861: 6280

Caldwell, Joseph M.
New Developments in the Field of Tidal Hydraulics, HY1:Jan 69:1:6339
TR:136:756

Caldwell, Noel L.
See James C. Farley, CEE:Feb 74:1-286

Calhoon, Max L.
Pressure-Meter Field Testing of Soils, CE:July 69:71
  Dsc: Gregory P. Tschebotarioff, CE:Apr 70:74
  Clo: CE:Apr 70:74
  TR:135:690
Simplified Method to Calculate Settlement Beneath Footings, CE:Feb 72:73
  TR:138:110
Dsc, CE:June 70:45, on Civil Engineering Today: A Profession in Crisis-Part II, CE:Feb 70:51
Dsc, SM3:Mar 72:306:8751, of "Initial Settlement of Structures on Clay", SM10:Oct 71:1359:8438

Calhoun, Charles A.
Current Water Systems Automation Research and Development in the Bureau of Reclamation, IR73:Aug 73:353

Calhoun, Ronald J.
See Edward B. Thornton, WW4:Nov 72:443:9318

Calkins, Myron D.
Collective Bargaining for Public Employees, CE:Oct 69:40
  TR:135:750
Planning Standards for Storm Drainage, UP1:Mar 70:53:7133
  Dsc: Harvey W. Duff and George C. C. Hsieh, UP2:Oct 70:167:7571
  Clo: UP1:Apr 71:120:8016
  TR:136:869
Professional Aspects of Public Works Management, CEE:Feb 74:1-339

Callahan, Joseph P.
Bridge Deck Deterioration and Crack Control, with James L. Lott and Clyde E. Kesler, ST10:Oct 70:2021:7579
  TR:136:1157

Callahan, William F.
See William H. Parker, III, CE:Sept 74:90

Callan, Michael D.
Dsc, EM3:June 69:797:6580, of "A Numerical Technique for Elastica Problems", EM5:Oct 68:1159:6182

Callander, R. A.
Dsc, WW4:Nov 71:766:8488, of "Flume Experiments on Alternate Bar Formation", WW1:Feb 71:155:7869

Calleja, Mario
The Normal and Inverted Rod Method: A Substitute For The Double-Rodded Level Run, CE:Aug 70:63
  TR:136:660

Callender, Gordon W., Jr.
See William F. Brumund, SM8:Aug 72:830:9078

Calvert, James D.
New Approach to Power Plant Siting, with William L. Heilman, PO1:June 72:93:8981
  TR:138:201

Cambefort, H.
Dsc, 4PCSM:72:III199, of "Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams", 4PCSM:71:I237

Camellerie, J. F.
Application of Slip Form Techniques to Dam Construction, ECCD:72:223
Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, TB:73:Ia-4-781

Cameron, Ian G.
Dsc, SM1:Jan 69:377:6324, of "Pile-Driving Formulas For Friction Piles in Sand", SM6:Nov 67:279:5604

Camfield, Frederick E.
Modelling Tidal Flow From Harbors, TN: WW4:Nov 70:879:7647
Shoaling of Solitary Waves on Small Slopes, with Robert L. Street, WW1:Feb 69:1:6380
  Dsc: Ole Secher Madsen, WW4:Nov 69:598:6869
  Clo: WW3:Aug 70:726:7443
  TR:135:122
Dsc, WW2:May 73:290:9694, of "Containerization and Its Impact on Port Development", WW3:Aug 72:333:9126
Dsc, WW3:Aug 73:410:9897, of "Maximum Breaker Height", WW4:Nov 72:529:9384

Camp, Eugene Vernon
Memoir of, TR:136:1339

Camp, Thomas R.
Backwashing of Granular Water Filters, with S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
  Dsc: David R. Brosman and Joseph F. Malina, Jr., SA3:June 72:606:8928; Ross Gregory, SA4:Aug 72:680:9077; Byong S. Shin and Richard I. Dick, SA5:Oct 72:799:9225; Andre Leclerc and Truong Tri Vu, SA6:Dec 72:1046:9393
  Clo: EE4:Aug 73:547:9893
  TR:139:83
Camp and Needles, Prominent Engineers, Die, with Enoch R. Needles, CE:Feb 72:54
Dispersion Conduits, with S. David Graber, SA1:Feb 68:31:5781
  Dsc: Chester J. Ordon, SA4:Aug 68:762:6049; Ian Larsen, SA6:Dec 68:1295:6262
  Clo: SA5:Oct 69:943:6802
  TR:135:485
Dsc, SA6:Dec 69:6931, of "Agglomerate Size Changes in Coagulation", SA3:June 69:481:6605
Dsc, with S. David Graber, HY12:Dec 70:2631:7711, of "Internal Hydraulics of Thermal Discharge Diffusers", HY2:Feb 70:509:7085
Dsc, CE:Feb 71:46, on Politics and Water Pollution, CE:Oct 70:41
Dsc, with S. David Graber, HY4:Apr 72:728:8799, of "Manifold Flow in Subirrigation Pipes", HY10:Oct 71:1737:8477

Campanella, Richard G.
See T. S. Ramanatha Iyer, SM5:Sept 69:1219:6786
See Yoginder P. Vaid, SM5:May 72:508:8860
See Yoginder P. Vaid, GT3:Mar 74:207:10421

Campbell, David B.
Unbalanced Tensions in Transmission Lines, ST10:Oct 70:2189:7622
  Errata: ST9:Sept 71:2426:8348
  TR:136:1133

Campbell, Donald E.
Homestake Delivery System Pipeline, with Thomas A. Marlow and Roy L. Wright, PL2:July 67:71:5353
  Dsc: Hiram C. Medbery, PL1:Oct 68:187:6133; Samuel Logan Kerr, PL1:Oct 68:189:6133
  TR:135:347

Campbell, Douglas W.
Schedule Risk Analysis, EPMT:73:47

Campbell, John E.
Dsc, ST10:Oct 71:2627:8411, of "Sustained and Cyclic Loading of Concrete Columns", ST4:Apr 71:1113:8033

Campbell, John S.
Dsc, ST12:Dec 69:2993:6932, of "Efficient Solution of Load-Deflection Equations", ST4:Apr 69:661:6510

Campbell, Robert B.
See Harlan G. Collins, IR4:Dec 67:81:5669

Campbell, T. Ivan
Dsc, ST3:Mar 69:501:6430, of "Fabrication and Tests of Structural Models", ST6:June 68:1339:5989

Campbell, Thomas H.
See Archie A. Harms, HY2:Mar 69:732:6433

Campbell-Allen, Denison
Need For Diaphragms in Concrete Box Girders, with Raymond J.L. Wedgwood, ST3:Mar 71:825:7965
Dsc: Richard M. McClure, ST12:Dec 71:2911:8557; A. Rajaraman, ST12:Dec 71:2915:8557; Vladimir Kristek, ST12:Dec 71:2916:8557
Clo: ST7:July 72:1658:9003
TR:137:544

Canale, Raymond P.
Effects of Temperature on Phytoplankton Growth, with Allan H. Vogel, TN: EE1:Feb 74:231:10309
Oxygen Utilization in Bacterial-Protozoan Community, with Frank Y. Cheng, EE1:Feb 74:171:10314
Errata: EE3:June 74:792:10564
Dsc, SA6:Dec 70:1448:7713, of "Response of Activated Sludge to Organic Transient Loadings", SA2:Apr 70:333:7205

Canham, Robert A.
Design Standards for Wastewater Treatment Systems, with Louis L. Guy, Jr., CE:Feb 72:40
Dsc: Eugene T. Jensen, CE:July 72:69
TR:138:70

Canizo, L.
Dsc, with C. Sagaseta, SM8:Aug 72:831:9078, of "Finite Element Analyses of Retaining Wall Behavior", SM12:Dec 71:1657:8583

Cannon, Robert E.
Ecology of Blue-Green Algal Viruses, with Miriam S. Shane and Eugene DeMichele, EE6:Dec 74:1205:11012

Cannon, Robert Williams
Concrete Dam Construction Using Earth Compaction Methods, ECCD:72:143

Canter, Larry W.
See Donald R. Rowe, SA5:Oct 70:1221:7619

Capacete, J. L.
Dsc, 4PCSM:72:III152, of "The Allowable Settlement of Structures", 4PCSM:71:I171

Capper, Walter E.
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., TE2:May 72:421:8918
TR:138:260

Cappleman, Homer L., Jr.
Dsc, 1970, of "Horizontal Movements Related to Subsidence", SM1:Jan 69:139:6336

Capps, John F.
Dsc, SM3:Mar 71:586:7943, of "Review of Collapsing Soils", SM3:May 70:925:7278

Carcich, Italo G.
The Pressure Sewer: A New Alternative to Gravity Sewers, with Leo J. Hetling and R. Paul Farrell, CE:May 74:50
Dsc: Charles E. Henningsgaard, CE:Sept 74:40; Mortimer A. Clift, CE:Oct 74:22
Pressure Sewer Demonstration, with Leo J. Hetling and R. Paul Farrell, EE1:Feb 74:25:10315

Cardenas, Alex E.
Stiffness of Reinforced Concrete Plates, with Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
TR:138:566
Dsc, ST12:Dec 71:2905:8557, of "Finite Element Analysis of Reinforced Concrete Slabs", ST3:Mar 71:785:7963

Cardile, Richard P.
Economical Refuse Truck Size Determination, with Francis H. Verhoff, EE3:June 74:679:10612

Cardy, W. Franklin G.
Dsc, IR2:June 73:192:9761, of "General Statement of Principles to be Included in State Water Rights Laws", IR2:June 72:317:8996

Carey, Gary
See William Ronald Hudson, ST1:Jan 71:81:7852

Carley, Walter C.
Formation of Flood Plain Lands, HY3:May 69:981:6574
Dsc: Charles R. Neill, HY1:Jan 70:297:6988; K. D. Woodyer, HY3:Mar 70:849:7113
Errata: HY6:Nov 69:2205:6866
Clo: HY10:Oct 70:2119:7568
TR:136:73

Carlier, Michel A.
Causes of the Failure of the Malpasset Dam, EFFD:Mar 74:5
French Laws and Regulations Regarding Dam Supervision and Inspection, IMROD:Sept 73:198

Carlson, Charles A.
See Robert G. Cox, HY10:Oct 71:1763:8407

Carlson, Dale A.
See Leroy C. Reid, Jr., EE2:Apr 74:339:10443

Carlson, Enos J.
Change in Quality of Pumped Drainage Effluent, IR73:Aug 73:195

Carlson, R. D.
See J. R. Busch, IRS:Sept 72:45

Carlson, Roy W.
Concrete Dams Built Without Contraction Joints, RCCD:70:187

Carlson, W. J.
See S. M. Cho, HYB:Aug 73:141

Carmona, Juan S.
Earthquake Effects on the Masonry of Multistory Buildings, TB:73:Ib-6-284

Carnes, Billy A.
Dsc, SA3:June 71:378:8157, of "Loading Rates on Waste Stabilization Ponds", SA6:Dec 69:1117:6975

Carney, John F., III
See Bijoy K. Bhattacharys, CEO-II:70:555
See Richard J. Stuart, TN: EM4:Aug 73:907:9898

Caro, J. H.
Dieldrin in Runoff from Treated Watersheds, with W. M. Edwards and B. L. Glass, IAWM:72:141

Caron, Claude
Dsc, SM10:Oct 73:891:10038, of "Strength Properties of Chemically Solidified Soils", SM11:Nov 72:1163:9332

Carothers, Henry P.
See Mason G. Lockwood, WW4:Nov 67:133:5583

Carow, Uwe
Problems of Oil Pollution on Coastal Waters and Beaches, CE13:72:III-2533

Carp, Frances M.
Transportation and Retirement, TE4:Nov 72:787:9341
TR:138:484

Carpena, A.
Stability, Summary Report, TB:73:II-16-605

Carpenter, R. B., Jr.
Engineering for the Lunar Environnent, with J. M. Mansfield and D. J. Stone, ESE:Apr 70:163

Carr, Braxton B.
Barge Transportation-Energizer of Production and Marketing, WW2:May 69:163:6559
TR:135:33

Carr, James H., Jr.
Dsc, ST10:Oct 70:2245:7570, of "Stability Problems of Wood Truss Bridge", ST2:Feb 70:353:7095

Carr, James K.
Dsc, CE:May 72:65, on People, Ecology and the Aswan High Dam, CE:Feb 72:37

Carr, Robert I.
Planning Construction of Repetitive Building Units, with Walter L. Meyer, CO3:Sept 74:403:10812
Progress Model for Construction Activity, with Thomas O. Brightman and Franklin B. Johnson, CO1:Mar 74:59:10428
Dsc, CO2:Sept 72:360:9155, of "Planning Monitoring Frequencies for CPM Projects", CO2:Nov 71:211:8503
See Walter L. Meyer, CEE:Feb 74:1-545

Carr, Robert W.
Sand Movement Measurement Near Anchor Plates, with Thomas H. Hanna, TN: SM5:May 71:833:8087

Carrier, George F.
Channel Effects in Harbor Resonance, with Richard Paul Shaw and Moto Miyata, EM6:Dec 71:1703:8611
TR:137:967

Carrier, W. David, III
Analysis of an Inhomogeneous Elastic Half-Space, with John T. Christian, TN: SM3:Mar 73:299:9632
Behavior of Returned Lunar Soil in Vacuum, with Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156
Dsc: Alexander P. Alexiev, GT9:Sept 74:1079:10769
TR:139:485
The Nature of Lunar Soil, with James K. Mitchell and Arshud Mahmood, SM10:Oct 73:813:10099
TR:139:473
See Nicholas C. Costes, SM6:Nov 70:2045:7704

Carrigan, Mark C.
The Louisiana Superdome; World's Most Versatile Building, CE:Nov 74:50

Carroll, Joseph L.
Simulation of Waterway Transport Systems, with Michael S. Bronzini, TE3:Aug 71:527:8311
Dsc: Alan R. Chandler, TE1:Feb 72:155:8311; Roger A. Burke, TE2:May 72:462:8862; George B. Tully, TE2:May 72:463:8862
Clo: TE4:Nov 72:9309
TR:137:1008

Carroll, Percy
Clean Water: The Management Problem, CWFE:Mar 71:13

Carruth, Dennis
See Albert J. Klee, SA4:Aug 70:945:7469

Carsen, David
Civil Engineering Today: A Profession in Crisis-Part I, CE:Jan 70:48
TR:136:42
Civil Engineering Today: A Profession in Crisis-Part II, CE:Feb 70:51
Dsc: J. C. Olsen, CE:June 70:44; John M. Youngerman, CE:June 70:44; Richard McFalls, CE:June 70:44; Brice R. Smith, Jr., CE:June 70:45; William S. Foster, CE:June 70:45; Augustine J. Fredrich, CE:June 70:46; Neal H. Bettigole, CE:June 70:46; Stanley W. Woods, CE:June 70:46; Max L. Calhoon, CE:June 70:45
TR:136:42

Carskaddan, Phillip S.
Bending of Deep Girders with A514 Steel Flanges, ST10:Oct 69:2219:6839
TR:135:1068

Carstens, Marion R.
Bed-Material Transport and Bed Forms, with Hilmi D. Altinbilek, HY5:May 72:787:8890
TR:138:273
A Theory for Heterogeneous Flow of Solids in Pipes, HY1:Jan 69:275:6354
Dsc: V. R. Krishna Murthy, HY1:Jan 70:277:6988
Clo: HY9:Sept 70:1875:7497
TR:136:764
Dsc, HY1:Jan 71:209:7783, of "Sediment Transportation Mechanics: J. Transportation of Sediment in Pipes", HY7:July 70:1503:7423
See Robert R. Wright, HY9:Sept 70:1781:7517
See Albert R. LeFeuvre, HY10:Oct 70:2051:7636

Carstens, Robert L.
See Kenneth A. Brewer, CEE:Feb 74:1-6

Carstens, T.
Trapping of Outfall Constituents behind Sills, with A. Sjoberg, 12CEC:71:1917
Turbulent Diffusion and Entrainment in Two-Layer Flow, WW1:Feb 70:97:7081
Dsc: Chin-Yih Kuo, WW4:Nov 70:867:7645
Clo: WW3:Aug 71:583:8272
TR:136:724

Cartelli, Vincent R.
Beam-To-Girder Connections, TB:73:II-15-371

Carter, Archie N.
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Carter, B. Roger
See Harold T. Whitney, 4PCSM:71:II139

Carter, Buford J., Jr.
Valuation of Flow Augmentation Releases, with James P. Heaney and Edwin E. Pyatt, SA3:June 71:345:8203
TR:137:865
See George R. Grantham, SA5:Oct 70:1045:7578

Carter, Clifford
See Bryan Stafford Smith, ST4:Apr 71:1055:8029

Carter, Everett C.
See Dennis C. Judycki, TE2:May 70:185:7281
See Frederick J. Wegmann, TE2:May 73:323:9734
See William A. Wild, TE4:Nov 74:873:10927

Carter, Greg
See John J. Givens, CE:Apr 70:47

Carter, John L.
Effects of Iron on Activated Sludge Treatment, with Ross E. McKinney, EE2:Apr 73:135:9679
Dsc: Ronald D. Neufeld and Edward R. Hermann, EE6:Dec 73:966:10180
Clo: EE4:Aug 74:1035:10693
TR:139:81

Carter, Larry W.
Loading Rates on Waste Stabilization Ponds, with Andrew Englande, Jr. and Alfred F. Mauldin, Jr., SA6:Dec 69:1117:6975
Dsc: Krishnier Purushothaman, SA5:Oct 70:1285:7569; Billy A. Carnes, SA3:June 71:378:8157

Carter, Robert L.
Free Vibrations of Hyperboloidal Shells of Revolution, with Arthur R. Robinson and William C. Schnobrich, EM5:Oct 69:1033:6808
TR:136:260

Carter, Rolland W.
See George F. Smoot, HY2:Mar 68:391:5848

Carter, Rufus H.
Dsc, with Walton M. Youngblood, SA4:Aug 72:663:9077, of "Cost of Residential Solid Waste Collection", SA5:Oct 71:563:8403

Carter, Trevor G.
Mass Transport by Waves and Offshore Sand Bedforms, with Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699
Errata: WW4:Nov 73:502:10114
TR:139:248

Cartwright, Keros
See George M. Hughes, CE:Mar 72:70

Carvenka, Vladimir
Dsc, with Kurt H. Gerstle, ST9:Sept 71:2434:8348, of "Analysis of Orthotropic Reinforced Concrete Structures", ST12:Dec 70:2607:7782

Carver, Charles E., Jr.
Oxygen Transfer from Falling Water Droplets, SA2:Apr 69:239:6504
Dsc: Ben Chie Yen, SA6:Dec 69:1203:6931
Clo: SA4:Aug 70:1002:7441
TR:135:1069

Casaciario, Raffaele
Dsc, with Antonio Di Carlo and Gianfranco Valente, EM5:Oct 71:1560:8406, of "Plane Stress Limit Analysis by Finite Elements", EM6:Dec 70:931:7746

Casad, Donald D.
Bridge Features Precast Girders and Struts, with Halvard W. Birkeland, CE:July 70:42
TR:13:523

Casagrande, Arthur
The Baldwin Hills Reservoir Failure in Retrospect, with Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551
Dsc: Robert O. Castle and T. Leslie Youd, PES:73:III-91
Clo: PES:73:III-103

Casagrande, Dirk R.
See Robert V. Whitman, SM1:Jan 71:1:7809

Casagrande, Leo
Comments on Conventional Design of Retaining Structures, SM2:Feb 73:181:9568
Dsc: Walter B. Lum, SM8:Aug 73:648:9892; Hugh Q. Golder, SM10:Oct 73:900:10038
Clo: GT5:May 74:552:10504
TR:139:264

Casciano, Frederick M.
See Robert A. Grace, WW3:Aug 69:291:6722

Cascione, Marcelo Fernandes
Dsc, Request for Technical Publications, CE:Aug 72:64

Case, F. N.
See E. H. Acree, 12CEC:71:815
See H. R. Brashear, 12CEC:71:821

Case, Fred E.
Economics of Water Quality and Wastewater Control, CWFE:Mar 71:115
Economics of Water Quality and Wastewater Control, SA2:Apr 72:427:8856
TR:138:353

Case, Leland A.
Quality Control and Application - New Melones Project, SUSS:July 73:235

Caselton, William F.
See Samuel O. Russell, HY2:Feb 71:323:7931

Caspe, Marc S.
Towards an Optimum Solution for Underground Rapid Transit, TE1:Feb 69:157:6416
TR:135:997

Cassell, E. Alan
Solidification of Sludges with Portland Cement, with Thomas W. Walker, SA1:Feb 70:15:7053
TR:136:411
See Richard M. Bodner, SA4:Aug 70:893:7451

Cassidy, John J.
Designing Spillway Crests for High-Head Operation, HY3:Mar 70:745:7153
Dsc: Cornelis A. van der Gugten, HY8:Aug 70:1778:7439; Clifford D. Smith, HY9:Sept 70:1916:7497; Singamsetti Surya Rao, HY11:Nov 70:2395:7641; Fernando M. Abecasis, HY12:Dec 70:2654:7711; Ramaswamy Sakthivadivel and S. Seetharaman, HY1:Jan 71:180:7783
Clo: HY10:Oct 71:1755:8407
TR:136:1245
Teaching Design with Practicing Engineers (Five Years of Experience), CEE:Feb 74:1-937
Dsc, HY1:Jan 73:267:9459, of "Flow Over Rounded Spillways", HY2:Feb 72:365:8704
See Charles W. Lenau, HY2:Mar 69:633:6478

Casson, John C.
See Leroy T. Boyer, EC5:70:467
See LeRoy T. Boyer, ST1:Jan 71:289:7853

Castanheta, Mario
See Jose Marecos, ST4:Apr 69:555:6492

Castanho, Jose
Influence of Grain Size on Littoral Drift, 12CEC:71:891

Castel, Glenn H.
Operational Experience with Snow Pillows in California, IR1:Mar 69:105:6444
TR:135:137

Castellani, Alberto
Expected Value of Ultimate Load Factor, TN: ST2:Feb 73:291:9545
Foundation Compliance Effects on Earthquake Response Spectra, SM4:July 70:1335:7425
TR:136:1029
Uncertainties in Elastic Design for Seismic Motions, TB:73:II-14-229
Dsc, ST8:Aug 69:1779:6707, of " Seismic Response of Single-Story Interaction Systems", ST11:Nov 68:2597:6235
See George W. Housner, SM1:Jan 69:360:6324

Castillo, Manuel
Jose Ma de Oriol Dam, EFFD:Mar 74:167

Castle, Robert O.
Dsc, with T. Leslie Youd, PES:73:III-91, of "Analysis of Failure of Baldwin Hills Reservoir", PES:72:I-507
Dsc, with T. Leslie Youd, PES:73:III-91, of "The Baldwin Hills Reservoir Failure in Retrospect", PES:72:I-551
See T. Leslie Youd, SM4:July 70:1201:7396

Castleton, Gary A.
See Raymond Eugene Davis, ST1:Jan 72:165:8631

Castner, W. Burton
See Jehangir F. Mirza, ST2:Feb 69:280:6373

Castro, Daniel Cervantes
See Hector Lopez Gutierrez, 12CEC:71:1151

Castro, Walter E.
See Jerald P. Peterson, HY6:June 74:773:10622

Caswell, Alfred E.
Environmental-Geotechnical Considerations in the Routing of EHV Transmission Lines, with Charles V. Nazare, Richard J. Berger and Joseph F. Torri, EPCE:Aug 74:587

Catanach, Richard B.
Cement Stabilized Fill for Conduit Support, with Thomas N. McDaniel, TN: SM6:June 71:959:8162
Lateral Deformation of a Dam Embankment, with Thomas N. McDaniel, PES:72:I-867
Clo: PES:73:III-161

Catanzaro, George V.
See Amir N. Nahavandi, HY1:Jan 73:47:9472

Catton, Ivan
See Richard M. Clever, HY3:Mar 73:485:9611

Cauldwell, F. Sherman
Dsc, WW1:Feb 71:225:7868, of "Effect on Waterway Depth and Alignments", WW2:May 70:497:7305

Caves, Joel L.
Dsc, HY9:Sept 70:1901:7497, of "Effect of Intake Elevation and Operation on Water Temperature", HY6:Nov 69:2081:6917

Cavin, Ralph K.
Dsc, with Gary R. Kramer, EE3:June 74:772:10564, of "Generic Feed Forward Control of Activated Sludge", EE3:June 73:301:9803

Cawley, William A.
See Arnold B. Joseph, CEO-II:70:465

Cayot, Ramon F.
See Peter D. Hindley, PO4:Dec 71:783:8580
See M. J. Doyle, Jr., CE13:72:III-2075

Cecil, Edward A.
Dry-Type Cooling Towers, with Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
TR:138:92

Cecil, J. Pat
See Herbert W. Busching, CEE:Feb 74:1-607

Cecil, Owen S.
Shotcrete Support in Rock Tunnels in Scandinavia, CE:Jan 70:72
Dsc: Asbjern Bakken, CE:Aug 70:68
TR:136:143

Cecilio, Catalino B.
Spillway Design for Series of Reservoirs, with Brook A. Kraeger and Vefa Yucel, HY10:Oct 74:1329:10851

Cedergren, Harry R.
Water and Pavement Performance, with Kneeland A. Godfrey, Jr., CE:Sept 74:78

Cederwall, Klas
Dsc, PO1:Jan 71:229:7784, of "Horizontal Surface Discharge of Warm Water Jets", PO2:Oct 69:253:6847

Celebi, Mehmet
Dsc, ST7:July 69:1573:6644, of "Buckling Analysis of One-Story Frames", ST9:Sept 68:2107:6118
Dsc, ST11:Nov 69:2540:6867, of "Design and Analysis of Frames for Stability", ST4:Apr 69:695:6522

Cella, Aldo
Automated Optimum Design From Discrete Components, with Robert D. Logcher, EC5:70:259
Automated Optimum Design from Discrete Components, with Robert D. Logcher, ST1:Jan 71:175:7845
TR:137:863
Properties Of Discrete Optima In Structural Optimization, TN: ST3:Mar 72:787:8755

Cembrowicz, Ralf G.
Capital Cost Minimization of Hydraulic Network, with Joseph J. Harrington, HY3:Mar 73:431:9606
Errata: HY9:Sept 73:1649:9961
TR:139:229
Dsc, with Joseph J. Harrington, HY10:Oct 72:1890:9222, of "Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations", HY2:Feb 72:335:8729
Dsc, with Joseph J. Harrington, HY10:Oct 72:1890:9222, of "Computer Analysis of Water Distribution Systems: Part II--Numerical Solution", HY3:Mar 72:447:8782

Center, Gustavus W.
Emergency Redesign of Silver Jack Spillway, PO2:Nov 73:265:10151
TR:139:508

Ceradini, Giulio
Dsc, with Carlo Gavarini, ST2:Feb 70:435:7047, of "Horizontally Curved Girders-State of the Art", ST5:May 69:853:6546
Dsc, with Carlo Gavarini, EM6:Dec 73:1299:10181, of "Unified Approach to the Theory of Plastic Structures", EM5:Oct 72:1133:9246

Cermak, Jack E.
Wind Effects on Tall Buildings -- Areas for Research, TB:73:Ib-7-435
See Willy Z. Sadeh, EM6:Dec 72:1365:9445

Cerny, L.
Column-Supported Shear Walls With Openings, TB:73:III-21-282

Cetiner, Ayhan
See Richard H. Gunderson, EC5:70:595
See Richard H. Gunderson, ST1:Jan 71:363:7842

Chadwick, Dean O.
Dsc, CE:Nov 73:38, on San Antonio: Classic "Stop the Freeway" Case, CE:July 73:59

Chae, Yong S.
Vibration of Noncircular Foundations, SM6:Nov 69:1411:6918
TR:136:335

Chaemsaithong, Kanchit
Alternative Water Resource Systems in the Lower Mekong, with Lucien Duckstein and Chester C. Kisiel, HY3:Mar 74:461:10430

Chai, James W.
Dsc, ST9:Sept 72:2133:9159, of "Automated Design of Trusses for Optimum Geometry", ST3:Mar 72:671:8795
Dsc, EM5:Oct 73:1102:10041, of "Inelastic Lateral Buckling of Restrained Beams", EM2:Apr 73:343:9666
Dsc, ST11:Nov 73:2328:10113, of "Prestressed Composite Steel Beam Design", ST3:Mar 73:301:9594

Chaiken, Eugene I.
Muskegon Sprays Sewage Effluents on Land, with Stephen Polincsik and Carl D. Wilson, CE:May 73:49
  Dsc: Richard D. Harza, CE:July 73:28; William A. Drewry, CE:Sept 73:29; Glenn W. Rehberger, CE:Sept 73:29
  Errata: CE:Aug 73:20
  Clo: CE:Sept 73:29
  TR:139:205

Chajes, Alexander
Eccentrically Loaded Columns, TN: ST2:Feb 74:493:10341
Inelastic Deflections of Beams, ST6:June 68:1549:6012
  Dsc: H. R. Jhansale and T. H. Topper, ST3:Mar 69:523:6430
  Clo: ST11:Nov 69:2522:6867
  TR:135:665
Stability Behavior Illustrated by Simple Models, ST6:June 69:1153:6598
  Dsc: Alexander Hrennikoff, ST12:Dec 69:3001:6932
  Clo: ST7:July 70:1594:7386
  TR:135:999
See Pan San Hsueh, EM3:June 71:919:8210

Chakrabarti, Arun K.
See Amarendra N. Biswas, HY11:Nov 74:1677:10964

Chakrabarti, P.
Hydrodynamic Effects in Earthquake Response of Gravity Dams, with Anil K. Chopra, ST6:June 74:1211:10616

Chakrabarti, Subrata
See Yau-kai Cheung, TN: EM3:June 71:1039:8160

Chakrabarti, Subrata K.
Multidirectional Analysis of Monochromatic Wave Trains, TN: WW1:Feb 74:61:10312
Nonlinear Wave Forces on a Vertical Cylinder, HY11:Nov 72:1895:9333
  Dsc: C. J. Garrison, HY7:July 73:1196:9823; Yuan Jen and Lars Skjelbreia, HY11:Nov 73:2135:10109
  Clo: HY7:July 74:1073:10635
  TR:139:126
Nonlinear Wave Forces on Halfcylinder and Hemisphere, with Robert A. Naftzger, WW3:Aug 74:189:10710
Wave Forces on Pile Including Diffraction and Viscous Effects, HY8:Aug 73:1219:9935
  Dsc: C. J. Garrison, HY8:Aug 74:1175:10696
  TR:139:340
Wave Forces on Submerged Objects of Symmetry, WW2:May 73:147:9698
  Dsc: Tokuo Yamamoto, John H. Nath and Larry S. Slotta, WW2:May 74:155:10509; Alf Torum, WW2:May 74:158:10509
  TR:139:233
Wave Train Direction Analysis, TN: WW4:Nov 71:787:8491
Dsc, EM3:June 71:1028:8154, of "Nondeterministic Analysis of Offshore Structures", EM6:Dec 70:985:7777
Dsc, WW3:Aug 71:588:8272, of "Dynamics of Single Point Mooring in Deep Water", WW4:Nov 70:815:7700
Dsc, WW3:Aug 71:592:8272, of "Forces Due to Waves on Submerged Structures", WW1:Feb 71:57:7870
Dsc, WW4:Nov 71:771:8488, of "Interaction of Waves with Submerged Objects", WW2:May 71:259:8111
Dsc, with Peter H. Feldhausen, WW1:Feb 72:136:8686, of "Sensitivity Analysis of Wind Generated Wave Predictions", WW2:May 71:365:8153
Dsc, WW4:Nov 72:591:9310, of "Regular Wave Effects on Walls Made of Cylinders", WW4:Nov 71:735:8547
Dsc, HY5:May 74:715:10505, of "Incipient Motion and Sediment Transport", HY10:Oct 73:1679:10067
Dsc, WW2:May 74:161:10509, of "Statistical Properties of Wave-Current Force", WW3:Aug 73:341:9931
Dsc, WW2:May 74:163:10509, of "Extreme Wave Height Distributions Over Oceans", WW3:Aug 73:355:9939
See Charles P. Rains, WW1:Feb 72:35:8713
See Peter H. Feldhausen, WW1:Feb 72:141:8686
See Basil W. Wilson, WAVES:Sept 74:87

Chakraborty, Madhusudan
Dsc, ST2:Feb 74:474:10306, of "Rectangular Prestressed Beams in Torsion and Bending", ST1:Jan 73:183:9501
Dsc, ST3:Mar 74:707:10381, of "Concrete T-Beams Subject to Combined Loading", ST4:Apr 73:687:9655
Dsc, ST8:Aug 74:1716:10697, of "Tests of Concrete Columns in Torsion", ST7:July 73:1409:9850
Dsc, ST9:Sept 74:1971:10772, of "Torsion and Bending of Prestressed Concrete Beams", ST11:Nov 73:2229:10129

Chalabi, A. Fattah
New Interdisciplinary Program in Construction Management at WPI, CEE:Feb 74:1-645

Chamberlain, Adrian R.
Role of the Public in Weather Modification, IR73:Aug 73:171

Chamberlain, Edwin J.
Dsc, with Paul A. Lilienthal, TE3:Aug 73:678:9896, of "Settlement of Pipeline on Thawing Permafrost", TE3:Aug 72:477:9090

Chamberlin, Robert S.
Undersea Oil Storage Tank, CE:Aug 70:57
  Dsc: Frank J. Hatfield, CE:Nov 70:65
  TR:136:634
See James A. Wees, SM10:Oct 71:1415:8439

Chambers, Melvin D.
See George B. Shih, IRS:Sept 72:433

Chamis, Christos C.
Buckling of Anisotropic Composite Plates, ST10:Oct 69:2119:6799
  Dsc: T. M. Hsu, ST7:July 70:1604:7386
  Errata: ST7:July 70:1606:7386
  Clo: ST3:Mar 71:960:7944
  TR:136:244
Closing Materials Research Structural Design Cycle, EM5:Oct 69:1255:6864
  TR:135:1031

Chammings, Maurice B.
See Frederick R. Martin, TE4:Nov 73:785:10154

Chan, Clarence K.
Membrane For Rockfill Triaxial Testing, TN: SM8:Aug 72:849:9085
See William D. Kovacs, SM1:Jan 71:59:7813
See N. Dean Marschi, SM1:Jan 72:95:8672

Chan, Ho-Bong
See Wai K. Tso, EM1:Feb 71:33:7899

Chan, Jerry C-Y
See Leonard R. Herrmann, GT8:Aug 74:958:10695

Chan, Peter W.
Stress in Beams with Circular Eccentric Web Holes, with Richard G. Redwood, ST1:Jan 74:231:10291
See Richard G. Redwood, ST2:Feb 74:297:10331

Chan, Robert K. C.
Shoaling of Finite-Amplitude Waves on Plane Beaches, with Robert L. Street, 12CEC:71:345

Chan, Samuel S.M.
Correlations of Modulus of Deformation by the Use of a Combined In-Situ Deformation Measurement and Finite-Element Method -- Abstract, with Grant L. Anderson, RM14:73:757

Chan, Shing-Ching
See Jerome J. Connor, ST6:June 68:1525:6011

Chan, Stevens T.K.
Flow Around Cylinder Between Parallel Walls, with Bruce E. Larock, TN: EM5:Oct 72:1317:9228
Fluid Flows from Axisymmetric Orifices and Valves, with Bruce E. Larock, HY1:Jan 73:81:9465
Errata: HY11:Nov 73:2154:10109
TR:139:157
Free-Surface Ideal Fluid Flows by Finite Element, with Bruce E. Larock and Leonard R. Herrmann, HY6:June 73:959:9787
TR:139:294
See Richard H. Gallagher, HY7:July 73:1083:9855

Chander, Subhash
See Karam S. Karki, HY10:Oct 72:1753:9235

Chandler, Alan R.
Dsc, TE4:Nov 69:700:6868, of "Economic Location of Locks", TE1:Feb 69:77:6397
Dsc, WW4:Nov 69:602:6869, of "Tonnage Capacity of Locks", WW2:May 69:201:6577
Dsc, TE1:Feb 72:155:8311, of "Simulation of Waterway Transport Systems", TE3:Aug 71:527:8311

Chandler, Pierce L., Jr.
Transformation of Waves Passing a Submerged Bar, with Robert M. Sorensen, CE13:72:I-385

Chandler, R. L.
See Myron K. Nelson, SA2:Apr 70:593:7247

Chandler, Richard J.
Dsc, GT5:May 74:560:10504, of "Residual Strength and Landslides in Clay and Shale", SM9:Sept 73:705:10023

Chandler, Thomas S.
Optical Current Meter Use in Southern California, with Winchell Smith, HY9:Sept 71:1461:8390
TR:137:785

Chandra, Sushil
Dsc, EM1:Feb 70:98:7044, of "Fracture Mechanism in Concrete: How Much do We Know?", EM3:June 69:531:6604
Dsc, ST8:Aug 70:1827:7442, of "Behavior of Concrete under Compressive Loadings", ST12:Dec 69:2543:6935
Dsc, ST8:Aug 70:1828:7442, of "Strength of Concrete Filled Steel Tubular Columns", ST12:Dec 69:2565:6936

Chandrasekaran, Anjur R.
Live Load Effect on Dynamic Response of Structures, with Sarjit S. Saini, ST4:Apr 69:649:6503
TR:135:230
Virtual Mass of Submerged Structures, with Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923
TR:138:308
See Sarjit S. Saini, ST7:July 72:1395:9015

Chandrasekaran, D.
Increased Logarithmic Weir Profiles, with Nagar S. Lakshmana Rao, HY11:Nov 74:1583:10946
Dsc, with Ramaswamy Sakthivadivel, HY12:Dec 72:2229:9391, of "Characteristics of Flow Weirs of Finite Crest Width", HY11:Nov 71:1807:8515
See Nagar S. Lakshmana Rao, HY10:Oct 70:2150:7568
See Bezzam C. Syamala Rao, HY10:Oct 71:1782:8407

Chandrasekaran, V.
See Shamsher Prakash, ST4:Apr 69:762:6486

Chandrasekaran, Vallampadugai S.
Simulation of Excavation Using Finite Elements, with George J.W. King, TN: GT9:Sept 74:1086:10774

Chandrasekhar, Chithradurga S.
Dsc, ST2:Feb 72:538:8684, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71:2203:8353

Chandrasekhara, T. R.
Dsc, with P. J. Dinkar and S. Venkataramana, IR:Sept 68:362:6088, of " Rectangular Cutthroat Flow Measuring Flumes", IR:Dec 67:1:5628
Dsc, with S. Venkataramana, HY3:May 69:1063:6524, of "Feasibility of Water Export", HY4:July 68:873:6024
Dsc, with P. J. Dinkar, HY3:May 69:1064:6524, of "Flow Around 180 Degree Bends in Open Rectangular Channels", HY4:July 68:893:6027
Dsc, with S. Muddappa, HY4:July 69:1470:6641, of "Beaches Produced by Waves of Low Phase Difference", HY5:Sept 68:1183:6100
Dsc, with M. H. Ramachandra, HY4:July 69:1474:6641, of "Analysis of Integrating-Float Flow Measurement", HY5:Sept 68:1245:6116
Dsc, with S. Venkataramana, HY4:Apr 70:1068:7189, of "On the Concept of Mean Hydraulic Radius", HY4:July 69:1305:6691
Dsc, HY6:June 70:1363:7310, of "Investigation of Brahmaputra River", HY5:Sept 69:1687:6793
Dsc, HY8:Aug 70:1748:7439, of "Energy Dissipators for Large Culverts", HY6:Nov 69:1941:6893
Dsc, IR3:Sept 70:364:7498, of " Triangular Broad-Crested Weir", IR4:Dec 69:493:6954
Dsc, with S. Venkataramana, HY5:May 71:736:8081, of "Flow Analysis of Large Triangular Weit", HY7:July 70:1435:7405
See D. M. Shankarachar, HY4:Apr 70:1045:7189
See D. Shankarachar Brensers, HY8:Aug 70:1747:7439

Chandrashekar, M.
See H. K. Kesavan, HY2:Feb 72:345:8709

Chandrashekhara, Chuen-Yuan
See Kashi T. Sundara Raja Iyengar, TN: EM6:Dec 74:1277:10979

Chandrashekhara, K.
Photoelastic Analysis of Free-Standing Stairs, with S. P. Srinivasan, TN: ST12:Dec 72:2836:9400

Chang, Chin-Hao
Buckling of Slanted Columns, EM4:Aug 74:737:10738

Chang, Chin-Yung
Analysis of Soil Movement Around a Deep Excavation, with James M. Duncan, SM5:Sept 70:1655:7512
Dsc: David S. Matheson and Sivajogi D. Koppula, SM7:July 71:1034:8224
Clo: SM2:Feb 72:217:8683
TR:137:86
Finite Element Methods for the Nonlinear and Time-Dependent Analysis of Geotechnical Problems, with Keshavan Nair and Ram D. Singh, GT74:June 74:269
See James M. Duncan, SM5:Sept 70:1629:7513

Chang, Fred F. M.
Deposition of Sediment in Transient Flow, with Dennis L. Richards, HY6:June 71:837:8191
Dsc: Jean Andre Cunge, HY2:Feb 72:399:8681
TR:137:859
Ripple Concentration and Friction Factor, HY2:Feb 70:417:7067
Dsc: Chun-Tsung Wang, HY7:July 70:1658:7384
Clo: HY1:Jan 71:178:7783
TR:136:489

Chang, Fu-Kuei
Human Response Factors, Theme Report, TB:73:C-AC19-137
Human Response to Motions in Tall Buildings, ST6: June 73:1259:9811
  Errata: ST5:May 74:1150:10506
  TR:139:369
Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, TB:73:Ia-1-165
See Herbert B. Rothman, CE:Mar 74:56

Chang, Hai Yain
Flume Experiments on Alternate Bar Formation, with Daryl B. Simons and David A. Woolhiser, WW1: Feb 71:155:7869
  Dsc: Frank Engelund, WW3:Aug 71:590:8272; R. A. Callander, WW4:Nov 71:766:8488; Mohammad Akram Gill, WW4:Nov 71:768: 8488; Alvin G. Anderson, WW1:Feb 72:86:8686
  Clo: WW1:Feb 73:127:9527
  TR:137:871

Chang, Hsiang-Sheng
Structural Design of Fukushima No. 6 and Tokai No. 2 Nuclear Power Plants, SDNPF:Dec 73:391

Chang, Jen-hu
See Howard C. Hogg, IR1:Mar 69:127:6448

Chang, Kenneth S. T.
Studies on the Shore Process and Wave Features of the Western Coast of Taiwan, with Frederick L. W. Tang, 12CEC:71:729

Chang, Kuo- Cheng
See W. Hall C. Maxwell, TN: EM4:Aug 72:1011: 9082

Chang, Nien-Yin
See Tien H. Wu, SM4:Apr 73:323:9687

Chang, P. C.
A Field Laboratory for Stratified Flow Studies, with Anching Lin, ISSF:Aug 72:501

Chang, Shih L.
Modern Concept of Disinfection, NSCD:71:635
Modern Concept of Disinfection, SA5:Oct 71:689: 8441
  Errata: SA5:Oct 72:786:9225
  TR:137:833

Chang, Shin
Invariant Imbedding and Unsteady Ground-Water Flow, with William Wen-Gong Yeh, HY10:Oct 74: 1343:10862

Chang, Shyming
See Charles W. Bert, EM6:Dec 72:1499:9450

Chang, Tse Yung
Nonisothermal Kinematic Hardening Law in Plasticity, TN: EM2:Apr 73:423:9641

Chang, Wen F.
Flexural Behavior Of Ferro-Cement Panels, with D. W. Gibson and N. R. Gibbons, CEO-II:70:1023

Chang, Y. Y.
See Norbert L. Ackermann, HY2:Feb 71:223:7920

Chang, Yuan C.
See James A. Mandel, EM4:Aug 71:1173:8316

Changnon, Stanley A., Jr.
Inadvertent Weather and Precipitation Modification by Urbanization, IR1:Mar 73:27:9608
  TR:139:244
Precipitation Enhancement Program for Illinois, IR3: Sept 73:215:9983
  TR:139:394

Chantaramungkorn, Kasem
Eccentrically Loaded Circular Plates on Columns, with Pasidhi Karasudhi and Seng-Lip Lee, TN: ST1:Jan 73:234:9464

Chantler, Adrian G.
Dsc, WW4:Nov 74:409:10903, of "Regime Equations and Tidal Inlets", WW3:Aug 73:393:9952

Chao, George C.
See Clinton L. Heimbach, TE4:Nov 74:889:10921

Chao, J. L.
Dsc, HY6:June 74:826:10567, of "At-Stream-Velocity Pumping Sediment Sampling System", HY6:June 73:873:9801

Chao, Shen P'eng
See Don J. Wood, TE3:Aug 71:441:8296

Chao, Ta
Stability of Trusses Subjected to Ponding Loads, TN: ST6:June 73:1327:9767

Chaplin, John R.
Computer Model of Vortex Shedding From a Cylinder, HY1:Jan 73:155:9491
  TR:139:187

Chapman, Alan A.
Approximate Modal Analysis Of Multistory One-Bay Frames, with Gary C. Hart, TN: ST9:Sept 72:2137: 9162

Chapman, Charles R.
Estuaries Need Freshwater, SEA:70:233

Chapman, K. R.
Performance of a Braced Excavation in Granular and Cohesive Soils, with Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271

Chapman, Leon D.
Investing in Regional Highway Networks, TE2:May 73:353:9742
  Dsc: Richard de Neufville, TE2:May 74:529: 10508
  TR:139:298

Chapman, Peter
UCSB Bikeways - Notes and Comments, BP73:Dec 73:672

Chapman, Roger S.
Powerline Foundations Installed along Railroad Tracks, CE:Oct 72:64
  TR:138:462

Chappell, Charles F.
Orographic Cloud Seeding as a Water Resource, IRS: Sept 72:389

Chapuis, Robert P.
Dsc, GT8:Aug 74:962:10695, of "Reinforced Earth Retaining Walls", SM10:Oct 73:745:10068

Chapus, Edmond E.
Dsc, with Jacques L. Dubouchet, HY8:Aug 73:1270: 9895, of "Start-up Pressures in Short Pump Discharge Lines", HY7:July 72:1117:9014

Char, Channagiri Vedavyasa
See Robert Lee Thoms, RM14:73:393

Characklis, W. G.
See D. M. Pipes, EE1:Feb 74:225:10302

Charles, Andrew
See Arthur D. Penman, SM2:Feb 73:139:9560

Charles, Carl O.A.
Dsc, HY3:Mar 74:499:10379, of "Discrete Gradient Optimization of Water Systems", HY6:June 73:863: 9804

Dsc, HY4:Apr 74:619:10441, of "Enhancement of Convergence of Pipe Network Solutions", HY7:July 73:1057:9852
See Don J. Wood, HY7:July 72:1157:9031

Charles Luckman Associates
Prudential Insurance Tower, TB:73:C-P-358
University of Delaware Dormitories, TB:73:C-P-360

Charley, Robert W.
Groundwater Model as a Tool in Planning and Management, with Edwin V. Lance and G. Morgan Powell, IR73:Aug 73:251

Charlton, Frederick G.
Dsc, HY10:Oct 70:2142:7568, of "River Channel Patterns", HY1:Jan 70:201:7038
Dsc, HY8:Aug 72:1461:9076, of "Sediment Transport Measurements in Gravel River", HY11:Nov 71: 1817:8521

Charlton, John A.
Calibration of Wave Recorders by an Optical Method, WAVES:Sept 74:247

Charlwood, Robin G.
See Jon F. Sykes, GT11:Nov 74:1185:10957

Charm, Leo Morris
Memoir of, TR:136:1340

Charrett, Donald E.
See George I. N. Rozvany, ST5:May 71:1521:8095

Chatham, C. E., Jr.
Movable-Bed Model Studies of Perched Beach Concept, CE13:72:II-1197

Chatham, Claude E.
See Robert W. Whalin, WAVES:Sept 74:466

Chatterjee, Anadi
See Arunendu Sen, WW2:May 73:283:9694

Chatterjee, Arun
Forecasting Regional Travel on Regional Highway Network, with Paul D. Cribbins, TE2:May 72:209: 8885
  Dsc: Stephen Quinnan, TE2:May 73:426:9691
  Clo: TE4:Nov 73:957:10110
  TR:139:21

Chatterjee, Karuna N.
Dsc, SA5:Oct 70:1276:7569, of "Frequency Analysis of Rainfall Intensities for Calcutta", SA6:Dec 69: 1013:6950

Chatterjee, Prabhat K.
See Amarendra N. Biswas, HY10:Oct 74:1495:10839

Chaudan, Hernanda S.
See Pratap Singh, IR4:Dec 74:513:10975

Chaudhry, Mohammad Hanif
Resonance in Pressurized Piping Systems, HY9:Sept 70:1819:7525
  Dsc: E. Benjamin Wylie, HY2:Feb 71:380:7863; Werner Zielke and Gerd Rosl, HY7:July 71: 1141:8223
  Clo: HY4:Apr 72:704:8799
  TR:137:494
Dsc, HY1:Jan 70:294:6988, of "Surging in Laboratory Pipeline with Steady Inflow", HY3:May 69:961:6573
Dsc, HY5:May 70:1221:7248, of "Stability of Oscillations in Simple Surge Tank", HY5:Sept 69: 1577:6773
Dsc, PO1:June 72:155:8927, of "Integration Of Pumped-Storage With Tidal Power", PO1:Jan 71: 159:7810
Dsc, PO2:Dec 74:217:10976, of "Start-Up Performance, Hyatt-Thermalito Power Complex", PO2:Nov 73:405:10169
See Wayne A. Johnson, PO1:June 72:179:8927

Chaudhry, Mohammad T.
Optimal Conjunctive Use Model for Indus Basin, with John W. Labadie, Warren A. Hall and Maurice L. Albertson, HY5:May 74:667:10550
  Errata: HY11:Nov 74:1730:10898

Chaudhuri, Malay
Virus Removal by Diatomaceous Earth Filtration, with Parviz Amirhor and Richard S. Engelbrecht, EE4:Aug 74:937:10732
Dsc, with David H. Foster and Richard S. Engelbrecht, SA1:Feb 71:118:7865, of "Virus Inactivation During Phosphate Precipitation", SA2: Apr 70:365:7220
Dsc, with Richard S. Engelbrecht, SA6:Dec 71:944: 8555, of "Metal Toxicity to Sewage Organisms", SA2:Apr 71:161:8020
Dsc, SA4:Aug 72:674:9077, of "Amoebic Cysticidal Properties of Halogens in Water", SA6:Dec 71:801: 8567
Dsc, SA6:Dec 72:1045:9393, of "Integrated Approach to Problem of Viruses in Water", SA6: Dec 71:867:8590
Dsc, SA6:Dec 72:1051:9393, of "Kinetics of Chlorine Disinfection in an Ecosystem", SA1:Feb 72:183: 8727
Dsc, with N. Sriramulu, EE1:Feb 74:219:10302, of "Desorption and Retentivity of Filtering Materials", SA6:Dec 72:937:9401

Chaudhuri, Swapan
See Sidney Shore, TN: ST3:Mar 72:793:8755

Chaudry, M. Hanif
Resonance in Pipes Having Variable Characteristics, HY2:Feb 72:325:8691
  TR:138:159

Chauhan, H. S.
See Pratap Singh, IR3:Sept 72:443:9212
See Pratap Singh, IR1:Mar 73:111:9581
See Pratap Singh, IR2:June 73:186:9761

Chauvin, Glen A.
Post-Tensioned Concrete Nuclear Structures, with Robert J. Small and Adolf Walser, PO3:June 70: 400:7355
  Dsc: Robert E. Shewmaker, PO1:Jan 71:262:7784; Dolat S. Mehta, PO2:Mar 71:587:7942
  TR:137:837

Chawla, Amrik S.
Boundary Effects on Stability of Structures, HY9: Sept 72:1557:9199
  Dsc: S. Thiruvengadachari, HY8:Aug 73:1277: 9895; V. C. Kulandaiswamy and S. Muthukumaran, HY11:Nov 73:2131:10109
  Clo: HY12:Dec 74:1831:10974
  TR:139:99
Dsc, IR1:Mar 72:154:8750, of "Rational Design of Wall Screens", IR1:Mar 71:131:7969
See Satya P. Garg, HY4:July 69:1095:6648
See Satya P. Garg, HY6:June 70:1261:7335
See Heramb D. Sharma, IR3:Sept 74:351:10819

Cheely, Albert H.
See Kenneth S. Price, EE3:June 73:283:9797

Chen, A.
See S. Covarrubias, TB:73:C-AC11-63

Chen, Albert T-F
See Robert L. Schiffman, SM1:Jan 69:285:6370
See Harold W. Olsen, SM3:May 69:927:6525

Chen, Andrie C.T.
Dsc, with Ti Huang and Wai F. Chen, ST11:Nov 71: 2763:8485, of "Flexural Rigidity of Concrete Column Sectione", ST2:Feb 71:573:7933

Chen, C. F.
Dsc, SM4:July 69:1127:6643, of "Undrained Stress Distribution by Numerical Methods", SM6:Nov 68: 1333:6243

- See Leonard J. Langfelder, SM4:July 68:981:6040

Chen, C. K.

- Turbulence in Wakes of Roughness Elements, with John A. Roberson, HY1:Jan 74:53:10257
- See John A. Roberson, HY4:Apr 70:941:7224

Chen, Carl W.

- Computer Simulation Of Urban Storm Water Runoff, with Robert P. Shubinski, HY2:Feb 71:289:7924
  - Dsc: Cheng-Yeng Hung, HY11:Nov 71:1918:8483
  - Clo: HY5:May 72:952:8859
  - TR:137:635
- Concepts and Utilities of Ecologic Model, SA5:Oct 70:1085:7602
  - TR:136:1280
- Predicting Quality Effects of Pumped Storage, with Gerald T. Orlob, PO1:June 72:65:8984
  - TR:138:255

Chen, Chang

- Seismic Resistant Design of Safety Class Structures and Equipment, SDNPF:Dec 73:459
- Dsc, with Garry J. Patterson and Don K. Croneberger, PO2:Nov 73:429:10111, of "Interaction of Soil and Power Plants in Earthquakes", PO2:Oct 72:273:9242
- Dsc, EM6:Dec 74:1271:10972, of "Modal Damping for Soil-Structure Interaction", EM2:Apr 74:323:10490

Chen, Cheng-Lung

- Fate of Thermally Polluted Surface Water in Rivers, SA3:June 71:311:8197
  - TR:137:629
- Formulation of Mathematical Watershed-Flow Model, with Ven Te Chow, EM3:June 71:809:8199
  - TR:137:267
- Nondimensional Gradually Varied Flow Profiles, with Chun-Tsung Wang, HY5:Sept 69:1671:6790
  - Dsc: Nagar S. Lakshmana Rao and Kalambur Sridharan, HY4:Apr 70:1093:7189; Ramanand Prasad and Beka Udeozo, HY7:July 70:1622:7384
  - Errata: HY3:Mar 71:449:7940
  - TR:136:228
- Sediment Dispersion in Flow with Moving Boundaries, HY8:Aug 71:1181:8287
  - Dsc: Frank Engelund, HY4:Apr 72:726:8799
  - Clo: HY12:Dec 72:2216:9391
  - TR:137:1027
- Surface Irrigation Using the Kinematic-Wave MethoS, IR1:Mar 70:39:7134
  - Dsc: David A. Woolhiser, IR4:Dec 70:498:7712
  - Clo: IR4:Dec 71:640:8553
  - TR:136:813
- Dsc, IR1:Mar 69:231:6930, of " Established Surge on an Impervious Vegetated Bed", IR1:Mar 68:1:5832
- Dsc, EM2:Apr 69:488:6484, of "Stochastic Open Channel Flow", EM3:June 68:811:5999
- Dsc, IR4:Dec 69:627:6930, of "Surface Irrigation Hydraulics and Kinematics", IR4:Dec 68:419:6284
- Dsc, HY9:Sept 74:1277:10770, of "Rainfall Excess Model from Soil Water Flow Theory", HY9:Sept 73:1337:9990

Chen, Jerru C.F.

- Nonlinear Pore Pressure Equation, TN: SM6:June 72:649:8933

Chen, Jian C.

- See Julio E. Valera, GT74:June 74:33

Chen, Kenneth

- Floating Breakwater for Reservoir Marinas, with Robert L. Wiegel, 12CEC:71:1647

Chen, Kenneth Y.

- Oxidation of Sulfide by O_2: Catalysis and Inhibition, with J. Carrell Morris, SA1:Feb 72:215:8710
  - TR:138:181

Chen, Kuang-Chen

- See Chao-Lin Chiu, EM5:Oct 69:1215:6858

Chen, Kuo-Kuang

- Dsc, with David S. Fine, ST12:Dec 74:2523:10977, of "Shallow Spherical Shells Under Apex Loads", ST1:Jan 74:249:10262
- See Neng-Ming Wang, EM4:Aug 73:867:9929

Chen, Park K.

- Dsc, CE:Sept 71:72, on Graphical Method for Finding All Roots of Quadratic and Cubic Equations, CE:Jan 71:53

Chen, Peter W.

- Design Developments - North & South America, State-of-Art Report 6, TB:73:Ib-7-423
- Human Perception Thresholds of Horizontal Motion, with Leslie E. Robertson, ST8:Aug 72:1681:9142
  - TR:138:397
- Response of Triangular Prisms in Turbulent Wind, with Alan G. Davenport, Nicholas Isyumov and Leslie E. Robertson, ST11:Nov 71:2679:8526
  - Dsc: David J. Fader, ST3:Mar 72:782:8752
  - Clo: ST11:Nov 72:9307
  - TR:137:889

Chen, Peter Y.P.

- Dsc, EM4:Aug 68:1000:6055, of "Flow and Pressure of Granular Materials in Silos", EM6:Dec 67:103:5660

Chen, Shoei-sheng

- Dynamic Stability of Tube Conveying Fluid, EM5:Oct 71:1469:8420
  - TR:137:795
- Dsc, EM5:Oct 71:1579:8406, of "Vibration of Support Excited Tubes in Coaxial Flow", EM6:Dec 70:1039:7775

Chen, Stephen C.

- Similkameen Pipeline Suspension Bridge, with John G. McMullan, TE1:Feb 74:207:10329
- Similkameen Pipeline Suspension Bridge, with John G. McMullan, CE:May 74:58

Chen, Ta-Shen

- See John B. Cheung, TN: EM2:Apr 74:463:10455

Chen, Wai F.

- Approximate Solution of Beam-columns, TN: ST2:Feb 71:743:7861
- Bearing Capacity Determination by Limit Analysis, with Hugh L. Davidson, SM6:June 73:433:9816
  - TR:139:333
- Bearing Capacity of Concrete Block or Rocks, with Daniel C. Drucker, EM4:Aug 69:955:6742
  - Dsc: A. R. Santhakumar, L. K. Kamaraj and M. Lakshmipathy, EM3:June 70:370:7309
  - Clo: EM6:Dec 70:1271:7710
  - TR:136:241
- Bearing Capacity of Concrete Blocks, with Sergio Couarrubias, EM5:Oct 71:1413:8421
  - TR:137:798
- Bearing Strength of Concrete Blocks, TN: EM6:Dec 73:1314:10187
- Behavior of Biaxially Loaded Columns, TB:73:II-16-575
- Behaviour of Concrete-Filled Steel Tubular Columns, TB:73:III-23-608
- Column Web Strength in Beam-to Column Connections, with David E. Newlin, TN: ST9:Sept 73:1978:9968
- Curvature and the Solution of Eccentrically Loaded Columns, with Sakda Santathadaporn, EM1:Feb 69:21:6382
  - TR:135:313
- Effects of Initial Curvature on Column Strength, TN: ST12:Dec 70:2685:7717
- Extensibility of Concrete and Theorems of Limit Analysis, EM3:June 70:341:7369
  - TR:136:874
- Frame Analysis Considering Connection Shear Deformation, with David J. Fielding, TB:73:II-15-365

Further Studies of Inelastic Beam-Column Problem, ST2:Feb 71:529:7922
  TR:137:380
General Solution of Inelastic Beam-Column Problem, EM4:Aug 70:421:7482
  TR:136:957
Inelastic Response of Column Segments Under Biaxial Loads, with Toshio Atsuta, EM4:Aug 73:685:9957
  TR:139:437
Interaction Equations for Biaxially Loaded Sections, with Toshio Atsuta, ST5:May 72:1035:8902
  Dsc: Boyd C. Ringo and James F. McDonough, ST5:May 73:955:9693
  Clo: ST12:Dec 73:2488:10185
  TR:139:59
Limit Analysis Of Stability Of Slopes, with Max W. Giger, SM1:Jan 71:19:7828
  TR:137:283
Plastic Indentation of Metal Blocks by Flat Punch, EM3:June 70:353:7370
  TR:136:897
Review of Column Behavior Under Biaxial Loading, with Sakda Santathadaporn, ST12:Dec 68:2999:6316
  TR:135:905
Simple Interaction Equations for Beam-Columns, with Toshio Atsuta, ST7:July 72:1413:9020
  Dsc: Benjamin Koo, ST3:Mar 73:588:9583
  Clo: ST10:Oct 73:2210:10039
  TR:139:80
Soil Mechanics and Theorems of Limit Analysis, SM2:Mar 69:493:6450
  Dsc: Joseph Emerson and George J.W. King, SM1:Jan 70:345:6989
  Clo: SM5:Sept 70:1800:7499
  TR:135:980
Ultimate Strength of Biaxially Loaded Steel H-Columns, with Toshio Atsuta, ST3:Mar 73:469:9613
  Dsc: Negussie Tebedge, ST2:Feb 74:478:10306
  Clo: ST10:Oct 74:2149:10834
  TR:139:253
Web Buckling Strength of Beam-to-Column Connections, with Irving J. Oppenheim, TN: ST1:Jan 74:279:10264
Dsc, SM2:Mar 68:608:5827, of "Applications of Limit Plasticity in Soil Mechanics", SM5:Sept 67:101:5424
Dsc, SM1:Jan 70:324:6989, of "Circular and Logarithmic Spiral Slip Surfaces", SM1:Jan 69:227:6361
Dsc, with Sakda Santathadaporn, EM2:Apr 70:188:7188, of "Approximate Yield Surface Equations", EM4:Aug 69:937:6741
Dsc, ST5:May 72:1193:8861, of "Stability and Load Capacity of Members with No Tensile Strength", ST7:July 71:1913:8253
See Andrie C.T. Chen, ST11:Nov 71:2763:8485
See Sakda Santathadaporn, ST1:Jan 72:153:8637
See Ivan M. Viest, TB:73:C-AC11-53
See Glenn P. Rentschler, TB:73:C-AC11-55
See S. Covarrubias, TB:73:C-AC11-63
See John A. Gilligan, TB:73:II-15-327
See David J. Fielding, ST1:Jan 73:1:9481
See Sakda Santathadaporn, ST3:Mar 73:491:9621
See Negussie Tebedge, ST3:Mar 74:579:10400

Cheney, James A.
Buckling of Soil-Surrounded Tubes, EM4:Aug 71:1121:8297
  TR:137:659
Design of a Barrel-Vault Cofferdam, ST4:Apr 69:677:6511
  TR:135:223
Pressure Buckling of Ring Encased in Cavity, EM2:Apr 71:333:8024
  TR:137:158
Dsc, SM9:Sept 72:974:9158, of "Low Velocity Projectile Penetration", SM12:Dec 71:1635:8592
Dsc, EM2:Apr 73:413:9636, of "Buckling of Shells: An Old Idea with a New Twist", EM3:June 72:531:8951
Dsc, GT12:Dec 74:1304:10973, of "Yielding of Sand in Plane Strain", GT5:May 74:491:10540

Cheney, Lloyd T.
Dsc, PP1:Oct 71:232:8408, of "Engineering Registration-License for What?", PP1:Sept 70:103:7562

Cheng, Aylmer P.
Beams on Discrete, Nonlinear Elastic Supports, with Howard L. Furr, ST11:Nov 69:2335:6873
  Dsc: Anatol A. Eremin, ST8:Aug 70:1813:7442
  TR:136:669

Cheng, David H.
Dsc, with Jacques E. Benveniste, ST12:Dec 71:2928:8557, of "Structural Response to Sonic Booms", ST4:Apr 71:1157:8063

Cheng, Frank Y.
See Raymond P. Canale, EE1:Feb 74:171:10314

Cheng, Franklin Y.
Dynamic Matrix of Timoshenko Beams Columns, with Wu-Hsiung Tseng, ST3:Mar 73:527:9595
  Dsc: William A. Thornton and James W. Gorzynski, ST12:Dec 73:2502:10185
  Clo: ST9:Sept 74:1945:10772
  TR:139:241
Vibrations of Timoshenko Beams and Frameworks, ST3:Mar 70:551:7155
  TR:136:866
Dsc, ST3:Mar 69:539:6430, of "Stability Analysis of Frameworks by Matrix Methods", ST7:July 68:1745:6032

Cheng, Hon Kwan
Concrete Design Standards in Asia, State-of-Art Report 7, TB:73:III-20-117

Cheng, Le-Chung
Plane Oscillatory Flow Past Rectangular Obstacles, with Marlyn E. Clark and James M. Robertson, EM4:Aug 74:707:10719

Cheng, Shun
Accurate Fourth Order Equation for Circular Cylindrical Shells, EM3:June 72:641:8982
  Errata: EM2:Apr 73:418:9636
  TR:138:311

Cheong, Hin Fatt
See Hsieh W. Shen, HY11:Nov 73:1947:10138

Cheong Siat Moy, Francois
General Analysis of Laterally Loaded Beam-Columns, ST6:June 74:1263:10625
Method of Analysis of Laterally Loaded Columns, ST5:May 74:953:10548

Chern, J.-M.
Structural Design for Bounds on Dynamic Response, with J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646
  TR:139:260

Chernykh, G. G.
See O. F. Vasiliev, ISSF:Aug 72:161

Cherwony, Walter
See H. Richard Orth, TE3:Aug 70:365:7478

Chery, Donald L., Jr.
Dsc, IR1:Mar 72:147:8750, of "Algorithm For Adjusting Stream Stage Records", IR1:Mar 71:51:7955
See Roger E. Smith, HY9:Sept 73:1337:9990

Chesney, William A.
Memoir of, TR:136:1341

Chesson, Eugene, Jr.
Dsc, CE:Apr 70:74, on Engineers and the Public Press, CE:Dec 69:31

Cheswick, Thomas
Dsc, CE:Jan 71:45, on Engineers Salaries: What California Is Doing, CE:June 70:56

Chettiar, C. Ganapathy
See P. C. Varghese, ST7:July 73:1663:9826

Cheung, John B.
Transient Thermal Stresses in Rectangular Prism, with Kuppusamy Thirumalai and Ta-Shen Chen, TN: EM2:Apr 74:463:10455
See Kuppusamy Thirumalai, RM14:73:527

Cheung, M. S.
See Yau-Kai Cheung, EM2:Apr 71:391:8038

Cheung, Yau-kai
Analysis of Simply Supported Thick, Layered Plates, with Subrata Chakrabarti, TN: EM3:June 71:1039:8160
Finite Strip Method Analysis of Elastic Slabs, EM6:Dec 68:1365:6267
  TR:135:964
Flexural Vibrations of Rectangular and Other Polygonal Plates, with M. S. Cheung, EM2:Apr 71:391:8038
  Dsc: Patricio A. Laura and Mario J. Maurizi, EM5:Oct 71:1588:8406
  Clo: EM3:June 72:750:8924
  TR:137:925
Folded Plate Structures by Finite Strip Method, ST12:Dec 69:2963:6985
  Dsc: Alexander C. Scordelis and Kaspar J. William, ST7:July 70:1622:7386; Yew-Chaye Loo and Anthony R. Cusens, ST8:Aug 70:1848:7442
  Clo: ST4:Apr 71:1354:8015
  TR:136:760
See Sue K. Wang, TE1:Feb 72:37:8699
See Tara P. Khatua, EM5:Oct 72:1225:9233
See Sue K. Wang, TE2:May 73:255:9721

Chevray, Rene
A Man of Hydraulics: Henri de Pitot (1695-1771), HY4:July 69:1129:6650
  Dsc: D. M. Shankarachar and T. R. Chandrasekhara, HY4:Apr 70:1045:7189
  TR:136:803

Chew, Norman B.
Designing to Prevent Liability Lawsuits, CE:Jan 72:64
  TR:138:44

Chia, Chuen-Yuan
Large Deflection of Rectangular Orthotropic Plates, EM5:Oct 72:1285:9271
  Errata: EM4:Aug 73:890:9894
  TR:139:142

Chia, Chun-Yuan
See Mandanapalli K. Prabhakara, TN: EM6:Dec 74:1282:10979

Chian, Edward S.K.
See Foppe B. DeWalle, EE5:Oct 74:1089:10867

Chiang, Cheng H.
Dsc, EE5:Oct 73:756:10035, of "Residuals in Manufacture of Paper", EE1:Feb 73:1:9543
Dsc, EE3:June 74:788:10564, of "Regional Interindustry Solid Waste Forecasting Model", EE6:Dec 73:851:10214

Chiang, Fu-Pen
Determination of Signs in Moire Method, EM6:Dec 69:1379:6963
  Dsc: Vincent J. Parks, EM4:Aug 70:503:7438
  Clo: EM2:Apr 71:579:8011
  TR:136:419
Moire-Rosette Method For Strain Analysis, TN: EM6:Dec 70:1285:7715
See August J. Durelli, ST5:May 69:871:6552

Chiang, Sie Ling
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, HYB:Aug 73:371
Dsc, HY2:Mar 69:734:6433, of "Design Hydrographs for Pennsylvania Watersheds", HY4:July 68:937:6036

Chiapetta, Richard L.
See John D. Rouse, SM12:Dec 73:1174:10184

Chick, Frank H.
See Joe E. Colcord, SU2:Sept 68:137:6098

Chicurel, Ricardo
See S. V. Kulkarni, EM3:June 73:537:9808

Chidley, Thomas R.E.
Dsc, SA5:Oct 69:964:6802, of " Numerical Studies of Unsteady Dispersion in Estuaries", SA5:Oct 68:897:6160

Chien, Jong-Song
Urban Runoff by Linearized Subhydrographic Method, with Krishan K. Saigal, HY8:Aug 74:1141:10766
Dsc, HY7:July 73:1191:9823, of "Kinematic Wave Nomograph for Times of Concentration", HY10:Oct 72:1765:9275
Dsc, HY7:July 74:1081:10635, of "Testing Methods for Determination of Urban Runoff", HY9:Sept 73:1319:9987
Dsc, HY8:Aug 74:1189:10696, of "Computer Simulation of Storm Water Runoff", HY12:Dec 73:2185:10216

Child, C. L.
See L. K. Liu, SDNPF:Dec 73:435

Childrey, Mitchell R.
See George K. Young, Jr., HY7:July 74:971:10676

Chin, Fung Kee
Dsc, SM6:June 71:930:8158, of "Pile Tests-Arkansas River Project", SM5:Sept 70:1545:7509

Chindarkar, U. N.
Dsc, with Subir Kar, IR4:Dec 68:523:6261, of "Energy Loss at Pipe Junctions", IR3:Sept 67:59:5411

Chinn, J.
Ponding of Liquids on Flat Roofs, with A. H. Mansouri and Staley F. Adams, ST5:May 69:797:6539
  Dsc: Ganpat S. Pandit, ST1:Jan 70:153:6990
  Clo: ST9:Sept 70:1960:7567
  TR:136:66

Chiou, Chyan S.
Radial Flow Between Porous and Solid Discs, with Harold L. Weissberg, TN: EM6:Dec 71:1759:8559

Chipman, Lester D.
Proper Grievance Handling Makes Unions Unnecessary, CE:Sept 73:95
  TR:139:416

Chisholm, W. Orville
See Hans J. Leutheusser, HY7:July 73:1027:9831

Chistiakov, E. A.
See Alexei A. Gvozdev, TB:73:III-23-537

Chitale, Shrikrishna V.
River Channel Patterns, HY1:Jan 70:201:7038
  Dsc: George H. Caddie, HY0:Oct 70:2141:7568; Frederick G. Charlton, HY10:Oct 70:2142:7568; Amarendra N. Biswas and K. K. Bandyopadhyay, HY1:Jan 71:175:7783
  Clo: HY8:Aug 71:1235:8267
  TR:136:931
Dsc, HY2:Feb 70:586:7045, of "River Metamorphosis", HY1:Jan 69:255:6352

Dsc, with K. S. Rajagopalan, HY4:Apr 70:1060:7189, of " Hydraulic Design of Unlined Rock Tunnels", HY4:July 69:1235:6679
Dsc, with K. S. Rajagopalan, HY2:Feb 72:388:8681, of "Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division", HY4:Apr 71:523:8076
Dsc, with K. S. Rajagopalan, HY10:Oct 74:1487: 10839, of "Prediction of Mixing Lengths for River Flow Gaging", HY7:July 73:1069:9856

Chitwood, Ronald A.
See David L. Schreiber, PO2:Dec 74:139:11001

Chiu, Arthur N.L.
Response of Structures to Time-Varying Wind Loads, ST2:Feb 70:381:7104
  Clo: ST12:Dec 70:2671:7714
  TR:136:585
Tower Response to Actual and Simulated Wind Forces, with George T. Taoka, ST9:Sept 73:1911: 10012
  TR:139:461
See George T. Taoka, ST2:Feb 74:305:10336

Chiu, Chao-Lin
Stochastic Hydrodynamics of Sediment Transport, with Kuang-Chen Chen, EM5:Oct 69:1215:6858
  TR:136:341
Stochastic Open Channel Flow, EM3:June 68:811: 5999
  Dsc: Cheng-lung Chen, EM2:Apr 69:488:6484
  TR:135:574

Chiu, Kao Ding
Modal Damping in Dynamic Analysis of Structures, with Hung Jen Kuo, SDNPF:Dec 73:499
Stability of Orthotropic Stiffened Composite Plates, EM5:Oct 72:1253:9266
  TR:138:508

Chiu, Yishu
Boundary Layer Separation Concept of Settling Tanks, EE6:Dec 74:1213:11019

Cho, David
See Lawrence G. Selna, CEO-II:70:79
See Lawrence G. Selna, WW1:Feb 72:15:8708

Cho, F. L.
Time History Dynamic Analysis of Pressurizer Discharge Piping System, with Y. A. Patel, SDNPF:Dec 73:343

Cho, S. M.
Cavitation Characteristics of 18-Inch Butterfly Valve, with W. J. Carlson and M. J. Tessier, HYB:Aug 73: 141

Choi, Chang-Koon
See William C. Schnobrich, ST8:Aug 72:1885:9079

Choi, Yu-Leuk
Dsc, HY10:Oct 70:2154:7568, of "Temperature Variations in Deep Reservoirs", HY2:Feb 70:391: 7063
Dsc, SA6:Dec 70:1455:7713, of "Examination of the Thermocline", SA2:Apr 70:353:7219
Dsc, HY3:Mar 73:544:9580, of "Temperature Prediction in Stratified Reservoirs", HY4:Apr 72: 645:8839
Dsc, HY3:Mar 73:547:9580, of "Synthetic Storm Pattern and Run-off for Gauhati, India", HY5:May 72:845:8887

Chong, Ken P.
Flexural Wrinkling in Foam-Filled Sandwich Panels, with John A. Hartsock, EM1:Feb 74:95:10370
  Dsc: Raymond M.L. Ting, EM5:Oct 74:1062: 10837

Chopra, Anil K.
Earthquake Behavior of Reservoir-Dam Systems, EM6:Dec 68:1475:6297
  Dsc: Olgierd C. Zienkiewicz, EM3:June 69:801: 6580
  Clo: EM2:Apr 70:165:7188
  TR:135:985
Earthquake Response of Concrete Gravity Dams, EM4:Aug 70:443:7485
  TR:136:1176
Evaluation of Effects of Ground Shaking on Concrete Gravity Dams, IMROD:Sept 73:771
See P. Chakrabarti, ST6:June 74:1211:10616
See Ashok K. Vaish, EM6:Dec 74:1101:10990

Chou, Fang-Hui
Three-Dimensional Vibrations of Orthotropic Cylinders, with Jan D. Achenbach, EM4:Aug 72: 813:9102
  TR:138:362

Chou, Yu Tang
See Richard G. Ahlvin, TE4:Nov 71:711:8486
See Richard G. Ahlvin, TE1:Feb 74:135:10349
See Richard G. Ahlvin, TE3:Aug 74:625:10727

Chow, P. Y.
See C. J. Garrison, WW3:Aug 72:375:9098

Chow, Ven Te
General Hydrologic System Model, with V. C. Kulandaiswamy, HY6:June 71:791:8176
  Dsc: Delbert D. Franz, HY3:Mar 72:569:8749
  Clo: HY10:Oct 72:1873:9222
  TR:137:704
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, with Arie Ben-Zvi, HY11:Nov 73: 2023:10172
  TR:139:460
See Cheng-lung Chen, EM3:June 71:809:8199
See James S. Windsor, HY10:Oct 72:1827:9304

Chowdhury, Robin N.
Stresses Due to Strip Loads on Incompressible Soil, with George J.W. King, TN: SM12:Dec 72:1433: 9399
Dsc, SM1:Jan 70:336:6988, of "Slopes in Stiff-Fissured Clays and Shales", SM2:Mar 69:467:6449
Dsc, SM1:Jan 70:351:6989, of "A Study of Bulk and Shear Moduli of a Sand", SM2:Mar 69:561:6461

Christensen, Bent A.
Rapid Discharge Measurement In Tidal Inlets, with H. E. Walker, CEO-II:70:743
Dsc, HY3:Mar 70:850:7113, of "Manning n for Cast-in-Place Concrete Pipe", HY3:May 69:995:6575
Dsc, HY8:Aug 70:1728:7439, of " Movement of Sand in Tunnels", HY6:Nov 69:1835:6880
See Barry A. Benedict, WW1:Feb 71:213:7868
See Muthusamy Krishnamurthy, TN: HY12:Dec 72: 2257:9397

Christensen, Doyle L.
Unusual Foundation Developments and Corrective Action Taken, EFFD:Mar 74:343

Christensen, Grant S.
Dsc, CE:June 74:22, on After Agnew: What's Happening in the Profession, CE:Feb 74:43

Christensen, Lyle R.
See Terence J. McGhee, EE6:Dec 73:883:10205

Christensen, M.
See Zdenek P. Bazant, ST10:Oct 72:2264:9301

Christensen, N. H.
See Bent Hansen, SM6:Nov 69:1568:6894

Christensen, Nephi A.
Aqueducts for the Least Cost Conveyance of Water, IR3:Sept 71:483:8381
Dsc: James K. White, IR2:June 72:334:8926
Errata: Chester C. Kisiel, HY9:Sept 72:1720:9156
Clo: IR4:Dec 72:604:9392
TR:138:46

Christensen, Wallace R.
Comprehensive River Basin Planning, PL1:Oct 68:11:6136
Dsc: Shu-t'ien Li, TE2:May 69:396:6527
Clo: TE1:Feb 70:114:7048
TR:135:807

Christian, John T.
Consolidation of a Layer Under a Strip Load, with Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030
Dsc: John R. Booker, SM4:Apr 73:358:9639
Clo: SM10:Oct 73:888:10038
TR:139:90
Plane Strain Consolidation by Finite Elements, with Jan Willem Boehmer, SM4:July 70:1435:7437
Dsc: Robert L. Schiffman, SM3:Mar 71:595:7943; W. D. Liam Finn, Peter M. Byrne and F. Bucher, SM5:May 71:808:8083
Clo: SM11:Nov 71:1596:8484
TR:137:502
Soil-Structure Interaction for Tall Buildings, State-of-Art Report 5, TB:73:Ia-11-967
Undrained Stress Distribution by Numerical Methods, SM6:Nov 68:1333:6243
Dsc: C. F. Chen, SM4:July 69:1127:6643; John R. Barrett, SM4:July 69:1128:6643
Clo: SM2:Mar 70:765:7115
TR:135:161
Dsc, SM3:May 68:796:5922, of "Applications of Limit Plasticity in Soil Mechanics", SM5:Sept 67:101:5424
See Kaare Hoeg, SM2:Mar 68:431:5850
See Edward H. Davis, SM5:May 71:753:8146
See Anwar E.Z. Wissa, SM10:Oct 71:1393:8447
See A. Stanley Lucks, TN: SM1:Jan 72:155:8618
See W. David Carrier, III, TN: SM3:Mar 73:299:9632
See Richard M. Simon, GT74:June 74:51
See Rebecca Grant, GT9:Sept 74:973:10802

Christiano, Paul P.
Frequencies of Beams with Elastic Warping Restraint, with Larry Salmela, TN: ST6:June 71:1835:8164
Horizontally Curved Bridges Subject to Moving Load, with Charles G. Culver, ST8:Aug 69:1615:6713
Dsc: Chen Pang Tan and Sidney Shore, ST4:Apr 70:861:7191; Kiran M. Vashi, ST5:May 70:995:7250
Clo: ST11:Nov 70:2524:7644
TR:136:94
Retaining Wall Under Action of Accreted Backfill, with Suradej Chuntranuluck, TN: GT4:Apr 74:471:10454
Transient Wind Loads on Circular Concave Cable Roofs, with Gerald R. Seeley and Heinz Stefan, ST11:Nov 74:2323:10966
See Charles G. Culver, ST8:Aug 69:1599:6712
See Stanley J. Jarecki, PO4:Dec 71:817:8587
See Lawrence A. Soltis, ST12:Dec 72:2647:9407
See Gordon R. Johnson, TN: ST7:July 74:1537:10647
See Gordon R. Johnson, EPCE:Aug 74:499
See Gerald R. Seeley, ST8:Aug 74:1593:10751
See Kalayya Narayana Murthy, ST11:Nov 74:2175:10912
See Howard I Epstein, EM6:Dec 74:1269:10972

Christiansen, Jerald E.
Effect of Agricultural Use on Water Quality for Downstream Use for Irrigation, IR73:Aug 73:753
Pan Evaporation and Evapotranspiration from Climatic Data, IR2:June 68:243:5988
Dsc: Mamdouh M.A. Shahin, IR1:Mar 69:248:6428; Harry F. Blaney and William Wen-Gong Yeh, IR1:Mar 69:251:6428
Clo: IR4:Dec 69:594:6930
TR:135:546

Christiansen, John V.
Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, TB:73:Ia-3-437

Christianson, Alden G.
See Bruce A. Tichenor, PO3:July 71:589:8250

Christman, Russell F.
See Robert K. Ham, SA3:June 69:481:6605

Christofferson, John R.
Dsc, HY9:Sept 74:1274:10770, of "Thunderstorm Runoff in Southeastern Arizona", HY7:July 73:1129:9871

Christoulas, Demetrious G.
Approximate Solution to Flow Problems Under Dams, SM11:Nov 71:1573:8528
Dsc: Boris S. Browzin and Larry A. White, SM12:Dec 72:1404:9394
Clo: SM6:June 73:473:9762
TR:139:12

Christy, Bruce V.
Memoir of, TR:139:562

Christy, Donald
User's View of Weather Modification, IR73:Aug 73:165

Chryssafopoulos, Nicholas
See William W. Moore, SM3:Mar 72:243:8789

Chu, Chung-Sang
See Heinz Stefan, PO2:Oct 72:253:9241

Chu, King-Yuen
Nuclear Containment Mat Design Concepts, with Alan A. Broussard, PO1:July 74:85:10654
Prestress System for Nuclear Concrete Containment Domes, PO1:July 74:111:10687

Chu, Kuang
Dsc, with Vijay K. Garg, ST1:Jan 74:273:10253, of "Lower Bound Solutions for Continuous Orthotropic Slabs", ST3:Mar 73:443:9617

Chu, Kuang-Han
Analysis of Horizontally Curved Box Girder Bridges, with Suresh G. Pinjarkar, ST10:Oct 71:2481:8453
Dsc: John E. Goldberg and Richard K. Keplar, ST4:Apr 72:945:8802; Adel Fam and Carl J. Turkstra, ST5:May 72:1212:8861; Alexander C. Scordelis and Christian Meyer, ST8:Aug 72:1878:9079; Alfio Seni, ST8:Aug 72:1880:9079
Clo: ST2:Feb 73:279:9525
TR:138:24
Approximate Fundamental Frequencies for Chimneys, with Junesun Park, TN: PO2:Nov 73:441:10115
Buckling of Open Cylindrical Shells Under Lateral Load, with Peter Turula, EM6:Dec 70:1143:7736
Errata: EM5:Oct 71:1560:8406
TR:136:1315
Elastic Buckling of Beam Flange Plates, with Albert J. Gouwens, TN: EM4:Aug 71:1329:8273
Large Deflection Buckling of Space Frames, with Robert H. Rampetsreiter, ST12:Dec 72:2701:9455
Dsc: Negussie Tebedge, ST11:Nov 73:2318:10113; James F. Dickie, ST12:Dec 73:2497:10185
Clo: ST7:July 74:1523:10637
TR:139:177

Postbuckling Behavior of Open Cylindrical Shells, with Peter Turula, EM6:Dec 70:877:7723
Errata: EM5:Oct 71:1558:8406
TR:136:1298
Torsion in Beams with Open Sections, with Robert B. Johnson, ST7:July 74:1397:10666
Dsc, with Marvin Jones, ST7:July 68:1853:6017, of "Hyperbolic Cooling Towers Under Wind Load", ST5:Oct 67:487:5532
Dsc, ST6:June 69:1387:6583, of "Lateral Buckling of Braced Multistory Frames", ST12:Dec 68:2963:6307
Dsc, EM5:Oct 72:1313:9221, of "Buckling of Arbitrary Open Cylindrical Shells", EM1:Feb 72:177:8726
See James F. Costello, ST10:Oct 69:2281:6848
See Peter Turula, EM6:Dec 70:1125:7733

Chu, Lap-Yan
See Leon Ru-Liang Wang, ST5:May 72:1202:8861

Chu, Shih-Lung
See James M. Doyle, ST8:Aug 68:1935:6070
See Richard N. Bergstrom, PO2:Mar 71:367:7977
See Max Zar, PO2:Oct 72:323:9256
See Andrew Morcos, PO2:Nov 73:281:10164
See Surendra Singh, SDNPF:Dec 73:43
See P. K. Agrawal, SDNPF:Dec 73:63
See M. P. Singh, SDNPF:Dec 73:263
See A. K. Singh, SDNPF:Dec 73:479
See Yi-Kwei Wen, ST12:Dec 73:2409:10249
See Hemant H. Shah, PO1:July 74:53:10648

Chu, Vincent H.
Buoyant Forced-Plumes in Cross Flow, with Michael B. Goldberg, HY9:Sept 74:1203:10805
See Hans J. Leutheusser, HY9:Sept 71:1269:8367

Chuaprasert, Manoon
Torsion of Nonhomogeneous Solid, with Mumtaz K. Kassir, EM4:Aug 73:703:9948
TR:139:421

Chuaprasert, Manoon F.
Displacements and Stresses in Nonhomogeneous Solid, with Mumtaz K. Kassir, EM5:Oct 74:861:10868

Chuck, Robert T.
Largest Butyl Rubber Lined Reservoir, CE:May 70:44
TR:136:405

Chugh, Ashok Kumar
Dsc, Bridge Substructure Design, CE:Feb 72:63
Dsc, Loaded Question, CE:June 72:64
Dsc, CE:May 71:52, on Positive Moment and Inflection Points for Continuous and Fixed Beams, CE:Dec 70:30

Chugh, Yoginder P.
Analytical Study of Pressurized Elliptical Cavities, with H. Reginald Hardy, Jr., RM14:73:339

Chung, Bertrand T.
Buckling Strength of Columns Based on Random Parameters, with George C. Lee, ST7:July 71:1927:8259
Dsc: Mayasandra K. Rauindra and Theodore V. Galambos, ST1:Jan 72:389:8623
Clo: ST8:Aug 72:1875:9079
TR:137:709

Chung, Samuel W.
Dsc, EM6:Dec 74:1261:10972, of "Analysis and Stability of Floating Roofs", EM5:Oct 73:1037:10101

Chung, T. J.
Finite Element Analysis of Thick Shell of Revolution, with Martin A. Bandy, TN: EM4:Aug 71:1315:8273

Chung, Yong Kwun
Solution of Flow Under Sluice Gate, EM1:Feb 72:121:8744
TR:138:152
Dsc, WW2:May 74:160:10509, of "Waves in a Harbor with Protruding Breakwaters", WW2:May 73:209:9700

Chuntranuluck, Suradej
See Paul P. Christiano, TN: GT4:Apr 74:471:10454

Chura, Thomas M.
Design Aid for Deflection Calculation for a Uniformly Loaded Flexural Member, CE:Feb 72:75
Errata: CE:Apr 72:65
TR:138:114

Churchill, Stuart W.
Dsc, SM12:Dec 73:1175:10184, of "Effect of Seepage Stream on Artificial Soil Freezing", SM3:Mar 73:267:9630

Cianciosi, James
Improving Environmental Impact Procedures for Highway Projects, with Allan G.R. Bullen, UT73:May 73:33

Ciani, John B.
Seafloor Surveying by Divers, with E. Kent Hunter, George B. Dowling and David M. Bunk, SU2:Nov 71:149:8496

Ciesielski, Roman
Dynamic Influences on Foundation Calculations for Tower Shaped Structures, with Janus Kawecki, TB:73:Ia-11-999

Cisler, Jaromir
See Frantisek Dolezal, IR1:Mar 69:223:6428

Claessen, Alphonsus I. M.
Reducing Negative Friction with Bitumen Slip Layers, with Endre Horvat, GT8:Aug 74:925:10764

Claiborne, Gaylord R.
Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, with Lucien Wahl, TB:73:Ib-8-541

Claire, Wm. H.
Esthetic Considerations in Urban General Planning, UP1:July 72:63:9042
TR:138:404
Future National Parks for Pedestrians and Bicyclists, BP73:Dec 73:530
Planning for Memphis Medical Center Traffic and Parking, with Randall A.P. Johnson, TE1:Feb 71:51:7882
TR:137:140

Clamen, Murray
Dsc, with Paul Minton, HY9:Sept 74:1292:10770, of "Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes", HY11:Nov 73:1933:10158

Clapp, James L.
Control for Antarctic Ice Cap Reconnaissance, SU1:Jan 68:1:5716
Dsc: Arthur J. Brandenburger, SU2:Sept 68:291:6091; Egon Dorrer, SU2:Sept 68:292:6091
Clo: SU1:Oct 69:176:6804
TR:135:572
See John C. Albright, SU2:Sept 68:81:6092
See James D. Gruendler, SU1:Apr 70:1:7195
See Gerald W. Johnson, SU1:May 71:27:8139
See Thomas A. Asbeck, SU1:May 71:53:8149
See Gerald W. Johnson, SU2:Nov 71:165:8502
See James D. Gruendler, SU1:July 72:93:9053

Clare, Horacio, Jr.
Memoir of, TR:136:1342

Clark, Alan F.
See Vincent D. Arp, TE4:Nov 73:873:10163

Clark, Arthur W.
See Barry J. Vickery, ST1:Jan 72:1:8634

Clark, C. O.
Dsc, HY7:July 71:1161:8223, of "Reservoir Operation With Imperfect Flow Forecasts", HY2: Feb 71:323:7931

Clark, C. Scott
See Asadullah Zulfacar, TE2:May 74:389:10520

Clark, James
See Jerry B. Schneider, TE4:Nov 74:943:10936

Clark, James Gordon
Professional Recognition -- How?, PP2:Apr 72:169: 8857
Dsc: Thomas DeS. Furman, PP2:Apr 72:173: 8857; Robert B. Thorn, PP2:Apr 72:177:8857
TR:138:335

Clark, John W.
Structural Metals-Aluminum, CE:Aug 69:31
TR:135:578
See J. R. Jombock, ST2:Feb 68:511:5816
See Maurice L. Sharp, ST4:Apr 71:1021:8048

Clark, Joseph A.
Flow Visualization in Free Shear Layers, with Eric Markland, HY11:Nov 73:1897:10119
Errata: HY6:June 74:832:10567
TR:139:431
Flow Visualization in Turbulent Boundary Layers, with Eric Markland, HY10:Oct 71:1653:8459
Errata: HY8:Aug 72:1461:9076
TR:137:820

Clark, Marlyn E.
Abnormality Detection in Simulated Arterial Systems, with Giovanni F. Ayala and Samuel L. Hawkes, EM5:Oct 69:1189:6854
TR:136:1226
See Le-Chung Cheng, EM4:Aug 74:707:10719

Clark, Paul W.
The Highway Engineer on Trial, CE:Sept 73:60
TR:139:379

Clark, Ralph H.
Digestion: Concentration-Loading-Time Limits, with V. Darryl Orr, TN: SA5:Oct 72:809:9229
See Edward L. Tharp, CEE:Feb 74:1-559

Clark, Robert A.
See Michael D. Hudlow, HY3:May 69:839:6555
See Guy L. Curry, HY12:Dec 73:2353:10246

Clark, Robert M.
Basic Data for Solid Waste: A Pilot Study, with John M. Sweeten and Daniel G. Greathouse, SA6: Dec 72:897:9424
Dsc: Robert L. Thoem, EE5:Oct 73:750:10035
Clo: EE3:June 74:760:10564
TR:139:495
Cost of Residential Solid Waste Collection, with Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
Dsc: Masaru Tanaka, SA2:Apr 72:466:8800; Lawrence J. Partridge, Jr., SA2:Apr 72:467: 8800; Rufus H. Carter and Walton M. Youngblood, SA4:Aug 72:663:9077
Clo: EE2:Apr 73:155:9635
TR:138:34
Decentralized Solid Waste Collection Facilities, with Billy P. Helms, SA5:Oct 70:1035:7594
Dsc: James P. Heaney, SA2:Apr 71:240:8013; Malcolm Kirby, SA3:June 71:387:8157
Clo: SA1:Feb 72:257:8682
TR:137:176
Economics of Solid Waste Investment Decisions, UP1:Mar 70:65:7151
Dsc: Thomas L. Morin and Augustine O. Esogbue, UP1:Apr 71:121:8016
Clo: UP2:Dec 71:242:8558
TR:137:99
Financing Municipal Solid Waste Management Systems, with Richard O. Toftner, SA4:Aug 70:885: 7449
TR:136:973
Fleet Selection for Solid Waste Collection Systems, with Billy P. Helms, SA1:Feb 72:71:8720
TR:138:216
Management of Solid Waste-The Utility Concept, with Richard O. Toftner and Thomas W. Bendixen, SA1:Feb 71:33:7875
TR:137:435
Measures of Efficiency in Solid Waste Collection, EE4:Aug 73:447:9916
TR:139:239
Systems Analysis and Solid Waste Planning, with James I. Gillean, EE1:Feb 74:7:10316
Dsc: Marlin U. Thomas, EE6:Dec 74:1290:10971
See Billy P. Helms, UP1:Apr 71:1:8061
See Billy P. Helms, SA4:Aug 71:443:8280

Clark, Samuel H.
Commercialism in Tax-Favored Institutions, with Raymond Lundgren, PP1:Sept 70:93:7560
TR:136:1002

Clark, W. J.
See Peter F. Adams, ST4:Apr 69:769:6486

Clarke, David
The Role of the Professional in Architectural Education, CEE:Feb 74:2-202

Clarke, Frederick J.
The Engineer's Role, PP2:Apr 72:163:8825
TR:138:264
Interdisciplinary Planning to Meet Environmental Needs, PP4:Oct 72:497:9262
TR:138:535
Dsc, CE:May 70:43, on The Civil Engineer and the Conservationist, CE:Feb 70:37

Clarke, John R.
Experience and Problems with Dams in Texas, IMROD:Sept 73:105

Clarke, Norman A.
There Oughta Be A Law!, BP73:Dec 73:550

Clary, John N.
New Highway Bridge Dimensions for Safety, TE2: May 71:371:8152
Dsc: Vincent L. Lao, TE1:Feb 72:151:8685
Clo: TE4:Nov 72:9309
TR:137:991

Claycomb, Elmer L.
Urban Storm Drainage Criteria Manual from Denver, CE:July 70:39
TR:136:511
See Kenneth R. Wright, HY6:Nov 69:2196:6866

Clays, Dirk
Dsc, with Gerard Tison, Jr., HY4:July 68:1160:6015, of " Vortex-Induced Oscillations at Low-Head Weirs", HY2:Nov 67:255:5597

Clayton, A. J.
Windhoek Reclaiming Sewage for Drinking Water, with P. J. Pybus, CE:Sept 72:103
TR:138:430

Clayton, Philip
Dsc, CE:Feb 72:74, on Environment by Design, CE: Oct 71:85

Clayton, Terry L.
See Harold P. Guy, TN: HY9:Sept 73:1653:10024

Cleary, Robert W.
Atmospheric diffusion and deposition of Particulate Matter, with Donald Dean Adrian and Richard J. Kinch, EE1:Feb 74:187:10344
New Analytical Solutions for Dye Diffusion Equations, with Donald Dean Adrian, EE3:June 73:213:9770
  TR:139:113

Cleasby, John L.
Dsc, SA4:Aug 68:766:6049, of "Filter Backwashing Tests and Upflow Equalization", SA1:Feb 68:129:5813
See Kou-ying Hsiung, SA6:Dec 68:1043:6270

Clement, Andrew B.
Dsc, CE:Jan 72:62, on Cellular Steel Floors Mature, CE:July 71:70

Clesceri, Nicholas L.
See Gerald C. McDonald, SA1:Jan 72:459:8800

Clevenger, William A.
When is Foundation Seepage Unsafe?, IMROD:Sept 73:570

Clever, Richard M.
Transient Flow to Finite Well in Unconfined Aquifer, with Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611
  Dsc: Abdel-Aziz I. Kashef and J. C. Smith, HY3:Mar 74:485:10379
  TR:139:232

Clift, Mortimer A.
Dsc, CE:Oct 74:22, on The Pressure Sewer: A New Alternative to Gravity Sewers, CE:May 74:50

Clifton, Jim
Artificial Playing Surface, CEWAU:74:90

Clifton, Rodney J.
Snap-Buckling of Shallow Prestressed Arches, EM6:Dec 70:1157:7749
  TR:137:55

Climenhaga, J. Jay
Moment-Rotation Curves for Locally Buckling Beams, with R. Paul Johnson, ST6:June 72:1239:8954
  TR:138:290

Cline, Federick R.
Memoir of, TR:139:563

Cline, Fred R.
Gabions Used In California Flood Control, with Edward Koehm, CE:Mar 74:68

Clohecy, Gerald F.
Geodetic Computations by Electronic Computer, SU1:May 71:97:8105
  TR:137:319

Close, E. R.
Objective Determination of Safety Factor in Reservoir Design, with Leo R. Beard and David R. Dawdy, HY5:May 70:1167:7297
  TR:136:1235

Cloud, Bruce B.
New Construction Equipment and Techniques, ASC73:Mar 73:181

Clough, Gerald W.
Design and Observation of a Tied-Back Wall, with Paul R. Weber and Joseph Lamont, Jr., PES:72:I-1367
Finite Element Analyses of Retaining Wall Behavior, with James M. Duncan, SM12:Dec 71:1657:8583
  Dsc: L. Canizo and C. Sagaseta, SM8:Aug 72:831:9078; Ian K. Lee and John R. Herington, SM9:Sept 72:973:9158
  Clo: SM4:Apr 73:347:9639
  TR:138:95
Performance of Tie-Back Support Systems, PES:73:III-259
Performance of Tied-Back Walls in Clay, with Yuet Tsui, GT12:Dec 74:1259:11028
Soil-Structure Interaction -- Reporter's Remarks, PES:73:III-247
Temperature Effects on Behavior of Port Allen Lock, with James M. Duncan, PES:72:I-1467
See Walter C. Sherman, Jr., SM2:Mar 68:527:5867
See James M. Duncan, SM8:Aug 71:1053:8317
See Yuet Tsui, GT74:June 74:173

Clough, Ray W.
Earthquake Loading and Response, Summary Report, TB:73:Ib-6-327
Nonlinear Earthquake Behavior of Tall Buildings, with Kalmar L. Benuska, EM3:June 67:129:5292
  TR:135:364

Clough, Richard H.
The Civil Engineer In Construction, CE:July 73:97
  Dsc: Dale H. Olshesky, CE:Jan 74:29
Impact of Metrication on the Construction Industy, EI3:July 74:225:10646
Dsc, PP1:Jan 72:93:8621, of "Professional Education: The Need for Creativity", PP1:Jan 72:85:8654
See Thomas L. Morin, CO1:July 69:85:6690
See Thomas L. Morin, CO1:Mar 72:137:8748

Cluff, C. Brent
See Keith R. Cooley, IR2:June 72:255:8953

Cluis, Daniel A.
Dsc, SA2:Apr 72:442:8800, of "Analysis of Water Temperature Variations in Large River", SA1:Feb 71:19:7908

Clusen, Mrs. Donald E.
Water Quality Standards and the Citizen, WQEF:Mar 70:37

Clyde, Calvin G.
Optimal Allocation of Water Resources in Utah, with Alton B. King, HY10:Oct 73:1777:10088
  TR:139:428
See Trevor C. Hughes, HY11:Nov 73:2079:10131

Clyde, Douglas H.
See George P. Deutsch, EM6:Dec 67:103:5660

Clyde, George D.
Gov. Clyde Dies; Was Honorary Member, CE:June 72:66
Dsc, IR4:Dec 69:620:6930, of "Role of Irrigation in the West's Expanding Economy", IR4:Dec 68:401:6281

Coates, Donald F.
Dsc, SM1:Jan 70:340:6989, of "Slopes in Stiff-Fissured Clays and Shales", SM2:Mar 69:467:6449

Cobb, Gary D.
Principles and Standards -- Water and Land Planning, IRS:Sept 72:399

Cobb, Guy William
Memoir of, TR:138:620

Coburn, D. F.
See Rolf Eliassen, SA2:Apr 69:299:6514

Cockburn, Robert T.
See William R. Giessner, EE4:Aug 74:1013:10744

Cockerham, Perry W.
Stochastic Analysis of Orthokinetic Flocculation, with David M. Himmelblau, EE2:Apr 74:279:10446

Cockfield, Richard W.
Design Concept for Assigning Urban Space, with Virginia K. Handa, UP2:Dec 71:191:8582
TR:137:962

Codner, Gary P.
Log-Normal Streamflow Generation Model Reexamined, with Thomas A. McMahon, HY9:Sept 73:1421:10002
TR:139:377

Coe, Jack J.
Ground Water Management-A Progress Report, SEA:70:105
Ground Water Management-A Progress Report, IR1: Mar 71:149:7971
TR:137:318
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, 40:72, 216pp.
TR:138:512
Satisfying Water Needs in Southern California, IR2: June 71:233:8193
Dsc: Myron B. Holburt, IR1:Mar 72:167:8750
Clo: IR4:Dec 72:602:9392
TR:137:861
Seawater Intrusion Extraction Barrier, IR3:Sept 72: 387:9171
TR:138:425
Wastewater Reclamation in Southern California, with Finley B. Laverty, IR3:Sept 72:419:9178
TR:138:450

Cofer, James R.
Orange County Water District's Water Factory 21, IR4:Dec 72:553:9405
TR:138:549

Cogan, Arnold M.
Citizens--A Vital Part of Transportation Planning, with Wallace A. Dela Barre, TN: TE1:Feb 74:289: 10311

Cohen, Edward
Implications of the New ACI Building Code, CE:Aug 72:47
TR:138:365
Radar Building Can Withstand Nuclear Attack, with Edward B. Laing, CE:Oct 73:46
TR:139:453
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, TB:73:III-20-27
See Joseph Vellozzi, ST6:June 68:1295:5980

Cohen, Eli W.
See Paul Rogers, PO1:Jan 70:117:7030

Cohen, Jules
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, TB:73:Ia-1-213

Cohen, Leslie J.
Delayed Yielding of Three-Phase Epoxy Composites, with Ori Ishai, EM6:Dec 70:867:7732
TR:137:46

Cohen, Norman J.
Statistical Theory in Materials Sampling, CO1:Mar 71:95:8005
TR:137:540

Cohen, Richard
See Carl Berkowitz, BP73:Dec 73:282

Cohen, Zivan
Precast Concrete Panels Cut Cost of Apartment Complex, CE:May 71:48
TR:137:344

Cohn, M. Z.
Collapse Load Analysis of Frames Considering Axial Forces, with Tariq Rafay, EM4:Aug 74:773:10757
Limit Design of Reinforced Concrete Frames, ST10: Oct 68:2467:6197
TR:135:738
Unified Approach to the Theory of Plastic Structures, with Satyendra K. Ghosh and S. R. Parimi, EM5: Oct 72:1133:9246
Dsc: Giulio Ceradini and Carlo Gavarini, EM6: Dec 73:1299:10181
Clo: EM4:Aug 74:813:10694
TR:139:129
See George I.N. Rozvany, EM6:Dec 70:1013:7778

Cohn, Sidney
Role of Behavioral Science in Environmental Design, ABS:71:115

Coho, Ralph W., Jr.
Volumetric Proportioning, Blending, and Mixing, SUSS:July 73:101

Coil, J. A.
Dsc, Transportation Demonstration Projects Conference, CE:Sept 70:72

Coker, George P.
General Aviation in Our Transportation System, ASC73:Mar 73:133

Colaco, Joseph P.
Concrete Floor Systems, State-of-Art Report 6, TB: 73:III-21-237

Colcord, Joe E.
Slope Taping, with Frank H. Chick, SU2:Sept 68:137: 6098
Dsc: Marcelle G.I. Pearce, SU1:Apr 70:116:7192
Tacheometry in Survey Engineering, SU1:May 71:39: 8141
TR:137:398

Cole, Eric
See Armando Balloffet, HY5:May 74:645:10523

Cole, John A.
Dsc, HY4:Apr 71:583:8012, of "Decision Criteria for Using Stochastic Hydrology", HY4:Apr 70:911: 7209
Dsc, HY8:Aug 74:1167:10696, of "Prediction of Mixing Lengths for River Flow Gaging", HY7:July 73:1069:9856

Cole, Jon A.
Role of a Small College in Education of Engineers, with Edward F. Cross, CEE:Feb 74:1-55

Cole, Leon Monroe
Multiservice Transport Systems for Urban Mobility, UP1:Apr 71:31:8025
Dsc: Robert L. McFall, UP2:Dec 71:246:8558
TR:137:898

Cole, Phillip L.
Environmental Design and Construction Response on Highway Relocations for Mountain Reservoir, with Sydney Steinborn, CO1:Mar 74:7:10398

Coleman, David G.
See Welby R. Madsen, HY10:Oct 74:1399:10887

Coleman, Neil L.
Dsc, HY1:Jan 69:524:6323, of "Free Surface Shear Flow Over a Wavy Bed", HY2:Mar 68:431:5856
Dsc, HY11:Nov 71:1921:8483, of "Hydrodynamic Effects of Seepage on Bed Particles", HY3:Mar 71: 421:7973
See Joe C. Willis, HY3:Mar 72:489:8765

Coleman, Thomas A.
Plastic Foam Serves as Lightweight Fill, CE:Feb 74: 68

Coleman, Thomas C.
Dsc, CE:July 71:56, on The 1-Point Procedure, CE: Feb 71:60

Collins, Aaron S.
Control of Anaerobic Digestion Process, with Bobby E. Gilliland, EE2:Apr 74:487:10475

Collins, Harlan G.
Current Design Capacity Procedure Used by SCS, IRS:Sept 72:339
Water Infiltration in Hawaiian Sugarcane Furrows, with Robert B. Campbell, IR4:Dec 67:81:5669
  Dsc: Yu-Si Fok, IR4:Dec 68:537:6261
  Clo: IR4:Dec 69:584:6930
  TR:135:356
See Cyrus M. Vaziri, IR1:Mar 73:1:9622

Collins, Harvey F.
Problems in Obtaining Adequate Sewage Disinfection, with Robert E. Selleck and George C. White, NSCD:71:137
Problems in Obtaining Adequate Sewage Disinfection, with Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
  Dsc: George E. Glover, SA4:Aug 72:671:9077
  Clo: EE1:Feb 73:89:9521
  TR:138:66
Sewage Chlorination Versus Toxicity -- A Dilemma?, with David G. Deaner, EE6:Dec 73:761:10190
  Dsc: Veerasamy Kothandaraman and Ralph L. Evans, EE3:June 74:785:10564; Shundar Lin, EE3:June 74:786:10564; George C. White, EE5:Oct 74:1188:10836; Shankha K. Banerji and C. Michael Robson, EE6:Dec 74:1283:10971; David H. Stoltenberg, EE6:Dec 74:1285:10971
  TR:139:435
Dsc, with Robert E. Selleck and George C. White, SA4:Aug 72:664:9077, of "Inactivation of Virus in Sewage", SA5:Oct 71:661:8419

Collins, J. Ian
Mixed Technique for Computing Surges in Channels, with Samuel N. Fersht, HY2:Mar 68:349:5831
  Dsc: Donald R. F. Harleman and Chok-hung Lee, HY1:Jan 69:495:6323; Chintu Lai, HY1:Jan 69:497:6323
  Clo: HY5:Sept 69:1724:6784
  TR:135:878
Probabilities of Breaking Wave Characteristics, 12CEC:71:399
Wave Statistics and Rubble Mound Structures, WAVES:Sept 74:486

Collins, James A.
Substation Over Old Mine Gets Firm Footing, CE:Dec 73:41
  TR:139:528

Collins, James D.
California Tackles Highway Noise, CE:Nov 73:56
  Dsc: Lawrence H. Burks, CE:May 74:20; Krieger W. Henderson, Jr., CE:Sept 74:34
  TR:139:495

Collins, Michael A.
Hele-Shaw Model of Long Island Aquifer System, with Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
  Errata: HY7:July 73:1189:9823
  TR:139:100
Seepage Through Triangular Dam Without Tailwater, TN: SM9:Sept 71:1355:8391

Collins, Richard M.
Engineer/Builder's Approach to Continuing Education, CEE:Feb 74:1-816
Trends in Engineering Education (Discussion), CEE:Feb 74:2-336

Collins, S. Patrick
Dsc, CO1:July 73:217:9822, of "Vehicular Tunnels in Rock - Direction for Development", CO2:Sept 72:235:9173

Collins, Thomas J.
See James J. Powers, CE:Mar 73:66

Collison, Gary H.
See Boris S. Browzin, SM1:Jan 71:250:7785

Colombi, J. S.
See E. M. Gosschalk, HY4:Apr 72:717:8799

Colombo, Peter
See Lawrence E. Kukacka, CEO-II:70:969
See Lawrence E. Kukacka, ST9:Sept 71:2217:8363

Colonell, Joseph M.
Laboratory Simulation of Sea Waves, with Byrne Perry, WW2:May 68:159:5941
  Dsc: Paul C. Liu and John G. Housley, WW4:Nov 68:529:6204; Alex J. Sutherland, WW1:Feb 69:112:6374; Geoffrey N. Bullock and Norman B. Webber, WW1:Feb 69:115:6374; Patrick Holmes, WW1:Feb 69:117:6374
  Clo: WW1:Feb 70:147:7049
  TR:135:710
Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, with Stewart C. Farrell and Victor Goldsmith, HYB:Aug 73:131
See Victor Goldsmith, 12CEC:71:767
See Victor Goldsmith, CE13:72:II-1277

Colony, David C.
Dsc, TE1:Feb 70:115:7048, of "Esthetics of Urban Transportation Facilities", TE1:Feb 69:23:6390
Dsc, TE1:Feb 71:169:7864, of "Social Considerations of Urban Transportation Systems", TE3:Aug 70:333:7471
Dsc, TE1:Feb 74:282:10307, of "Public Works and the Environment", TE1:Feb 73:1:9517

Colson, George P.
Control of Tunneling Machines by "TunneLaser" System, CE:Feb 70:55
  TR:136:82

Colston, Thomas J.
William Fitts Ryan Award Citation, CEWAU:74:67

Colville, James
Large Displacement Analysis of Thin Plates, with Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593
  Dsc: Anil K. Kar, ST11:Nov 73:2327:10113; Semih S. Tezcan, ST11:Nov 73:2327:10113
  Clo: ST7:July 74:1525:10637
  TR:139:234
Plane Stress Reinforced Concrete Finite Elements, with Jamil Abbasi, ST5:May 74:1067:10554
Tests of Curved Steel-Concrete Composite Beams, ST7:July 73:1555:9867
  TR:139:424

Colvocoresses, Alden P.
Mapping from Space, SU1:May 71:125:8137
  TR:137:378

Colwell, Robert N.
Resource Assessment with the Aid of Space Photography, ESE:Apr 70:45

Committee on Bibliography
Tall Buildings: Computerized Bibliography, TB:73:C-AC10-47
Tall Buildings: Preliminary Bibliography, TB:73:C-AC10-41

Comninellis, E.
Ludington Pumped Storage Project, PO1:May 73:069:9696
  TR:139:114

Comstock, Chester F.
Inspect Bridges Now, Avoid Problems Later, CE:Nov 71:66
  TR:137:729

Condon, George E.
Stars in the Water-The Story of the Erie Canal (Book Review-J. W. Briscoe), CE:Oct 74:32

Congdon, Judith G.
Plastic Behavior of Beams with Reinforced Holes, with Richard G. Redwood, ST9:Sept 70:1933:7561
TR:136:1043

Conklin, Gerard T.
See Thomas R. Camp, SA6:Dec 71:903:8605

Conley, Walter R.
See Gordon L. Culp, SA5:Oct 69:829:6823

Conlin, Walter F., Jr.
Economics of High-Rise Buildings, State-of-Art Report 4B, TB:73:Ia-1-119
Movement and Distribution of Concrete by J. R. Illingworth (Book Review), CE:Oct 72:18

Conlon, Donald M.
See George W. Allen, CEO-II:70:823

Conlon, Robert J.
Dsc, 4PCSM:72:III211, of "Accuracy of Field Deformation Measurements", 4PCSM:71:I313
See Raymond P. Benson, URC:72:407

Conner, Harold W.
Moment Redistribution in Precast Concrete Frame, with Paul H. Kaar and W. Gene Corley, ST3:Mar 70:637:7168
Dsc: Herbert A. Sawyer, ST2:Feb 71:722:7867
Clo: ST9:Sept 71:2424:8348
TR:136:858
Technical Information Retrieval, with J. Nieves, CE: Nov 69:47
TR:135:992

Connolly, J. P.
Dsc, Women Engineers, CE:Feb 74:107

Connolly, Joseph P.
Dsc, CE:Mar 73:51, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE: Aug 72:55

Connor, Desmond M.
Public Participation in Planning the St. John River, with Keith T. Bradley, OIDS:72:279

Connor, Jerome J.
Nonlinear Analysis of Elastic Framed Structures, with Robert D. Logcher and Shing-Ching Chan, ST6:June 68:1525:6011
Dsc: H. S. Srinivas Prasad, ST3:Mar 69:517:6430; Semih S. Tezcan and Bijay C. Mahapatra, ST3: Mar 69:519:6430
TR:135:659
See Carlos A. Brebbia, EM2:Apr 69:463:6516
See Rene W. Luft, EC5:70:573
See Rene W. Luft, ST1:Jan 71:349:7841
See David W. Malone, EM4:Aug 71:1145:8293

Conomas, T. John
Mixing of Columbia River and Ocean Waters in Summer, with M. Grant Gross, SA5:Oct 68:979: 6187
Errata: SA5:Oct 69:967:6802
TR:135:720

Conover, Herbert S.
Preservation and Restoration of the Landscape, ECCD:72:365

Conover, W. J.
Statistical Model of Turbulence in Sediment-Laden Streams, with N. C. Matalas, EM5:Oct 69:1063: 6814
TR:136:294

Conrad, E. T.
See Ralph Stone, CE:May 70:37

Conrad, Robert B.
Transportation Model Applied to Landfill Design, with E. Kenneth Hoffman, EE3:June 74:549:10575

Constantinides, Christos T.
See Raymond G. Jacquot, TN: EM2:Apr 72:497: 8815

Constantinu, Costas P.
Memoir of, TR:135:1121

Content, Charles S.
See Harris H. Burke, SM10:Oct 72:1033:9268

Contractor, Dinshaw N.
Dsc, with James M. Wiggert, HY5:May 71:762:8081, of "Implicit Flood Routing in Natural Channels", HY12:Dec 70:2481:7773
Dsc, EM5:Oct 74:1059:10837, of "Open-Channel Flow Equations Revisited", EM5:Oct 73:979:10073

Converse, Joseph Brandly
Memoir of, TR:137:1048

Convery, John J.
See Robert L. Stenburg, SA6:Dec 68:1121:6296

Conway, Harry D.
See You-Ming Kuo, EM2:Apr 74:221:10460

Conway, Richard A.
See Kenneth S. Price, EE3:June 73:283:9797

Conwell, William A.
Continuing Education and Broadening the Program (Discussion), CEE:Feb 74:2-338

Cook, David J.
Dsc, EM1:Feb 70:102:7044, of "Fracture Mechanism in Concrete: How Much do We Know?", EM3: June 69:531:6604

Cook, David O.
See Paul D. Higley, EE4:Aug 74:955:10734

Cook, Dennis C.
Dsc, CE:Oct 72:63, on The Challenge to Civil Engineering, CE:July 72:66

Cook, Harry N.
Dsc, High Interest/Discount Rates, CE:Aug 74:22

Cook, John C.
Status of Ground-Probing Radar and Some Recent Experience, EFSE:Aug 74:175

Cook, R. Gordan
Successful Ice Dusting at Fairbanks, Alaska, 1966, with Mason D. Wade, Jr., HY1:Jan 68:31:5717
TR:135:383

Cook, Robert D.
Improved Two-Dimensional Finite Element, ST9:Sept 74:1851:10808
Some Elements for Analysis of Plate Bending, EM6: Dec 72:1453:9447
TR:138:590
Dsc, ST7:July 70:1621:7386, of "Theory of Nonlinear Elastic Structures", ST12:Dec 69:2687:6943
Dsc, EM6:Dec 71:1745:8551, of "Buckling of Multilayer Plates by Finite Elements", EM2:Apr 71:477:8051

Cook, Robert N.
Comprehensive Unified Land Data System, SU1:Oct 69:103:6851
TR:136:657

Cooke, Henry R.
Soft-ground Tunneling for Storm Sewer, CE:Apr 71: 61
TR:137:304

Cooke, John Fothergill
Dsc, IR4:Dec 74:518:10975, of "Irrigation Development in Bangladesh", IR1:Mar 74:69:10394

Cooke, Nigel
Dsc, with Peter J. Moss, ST8:Aug 74:1721:10697, of "Failure Tests of Rectangular Model Steel Box Girders", ST7:July 73:1439:9854

Cooley, Keith R.
Evaporation Reduction with Reflective Covers, with Lloyd E. Myers, IR3:Sept 73:353:9982
Dsc: A. F. Thoma, IR3:Sept 74:397:10771
TR:139:382
Lower Cost Water Harvesting Methods, with Lloyd E. Myers and Gary W. Frasier, IAWM:72:27
Reducing Pond Evaporation with Perlite Ore, with C. Brent Cluff, IR2:June 72:255:8953
TR:138:305

Cooley, Wils L.
The Future of Private Engineering Education, with Clive L. Dym, EI2:Apr 74:97:10458

Coon, Max D.
Recoverable Deformation Of Cohesionless Soils, with Roger J. Evans, S&M2:Feb 71:375:7911
Dsc: Mohamed A. El-Sohby, SM12:Dec 71:1711:8556
TR:137:563
See Roger J. Evans, SM5:Sept 69:1281:6754

Cooney, Austin
Laser Alignment Techniques Utilized in Tunneling, SU2:Sept 70:229:7545
TR:136:967

Cooper, Calvin G.
Dsc, PWS:Nov 72:69, of "Recycling of Land Resources", PWS:Nov 72:57

Cooper, Norman L.
Dsc, TE4:Nov 69:711:6868, of "PPB System Implications on Future Highway Program", TE2:May 69:373:6566
Dsc, TE1:Feb 71:170:7864, of "Social Considerations of Urban Transportation Systems", TE3:Aug 70:333:7471
Dsc, CE:Aug 72:46, on An American Engineer in Israel, CE:June 72:63

Cooper, Peter B.
Tests on Beams with Reinforced Web Openings, with Robert R. Snell, ST3:Mar 72:611:8791
Dsc: Richard G. Redwood, ST9:Sept 72:2129:9159
Clo: ST3:Mar 73:580:9583
TR:138:189
See Dennis E. Myers, ST12:Dec 69:2845:6966

Cooper, Richard H.
Critical Review of Sediment Transport Experiments, with Allan W. Peterson and Thomas Blench, HY5:May 72:827:8873
Dsc: Dale I. Bray, HY12:Dec 72:2247:9391
Clo: HY7:July 73:1161:9823
TR:139:46
Flume Experiments On Flow In Mobile Bed Channels, with Allan W. Peterson, TN: HY10:Oct 70:2167:7575
Dsc, with Allan W. Peterson, HY9:Sept 70:1880:7497, of "Coordination of Mobile-Bed Hydraulics", HY6:Nov 69:1871:6884

Cooper, Saul
New Bedford Hurricane Barrier Operational Problems, HY4:July 68:925:6035
TR:135:662

Cooper, Sol E.
Engineering Societies' Program for Training Minority Manpower, PP1:July 69:61:6694
Clo: PP1:Oct 71:226:8408
TR:136:301
Minority Employment—A Job for ASCE, EI3:July 74:191:10689
Minority Programs for ASCE, with Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075
TR:138:485
Dsc, EI3:July 74:259:10633, of ""Engineer Shortage" - A Myth That is as Bad as a Guile", PP4:Oct 73:441:10082
Dsc, EI4:Oct 74:368:10835, of "Minorities In Engineering - How Does Your Company Stack Up?", EI1:Jan 74:41:10271

Cope, James L.
Conveying Concrete to Lower Dam Construction Costs, ECCD:72:247

Copen, Merlin D.
Arch Dam Design: State-of-the-Art, with Loyd R. Scrivner, PO1:Jan 70:93:7021
Dsc: Serge V. Valent, PO1:Jan 71:237:7784; J. Laginha Serafim, PO1:Jan 71:241:7784
Clo: PO3:July 71:712:8256
TR:136:746
Design Concepts: Rapid Construction Of Arch Dams, RCCD:70:113
Determination of In Situ Stresses in Concrete Dams, with George Brown Wallace, PO2:Mar 71:455:7964
Errata: PO1:June 72:169:8927
TR:137:605
Introductory Remarks, ECCD:72:169

Copp, Howard D.
Pullman Tackles its Flooding Problems, CE:Aug 72:42
Dsc: John A. Owen, CE:Nov 72:56
TR:138:360

Corcoran, Paul J.
See John A. Templer, MTI:May 72:67

Corcoran, Roy W.
See Alexander C. Koehler, PO2:Oct 69:203:6829

Cordella, Frank L.
See Arthur James Mc Arthur, TB:73:Ia-1-199

Cordery, Ian
Initial Loss for Flood Estimation and Forecasting, HY12:Dec 70:2447:7737
Dsc: Robert G. Cox and Charles A. Carlson, HY10:Oct 71:1763:8407
Clo: HY5:May 72:948:8859
TR:137:538

Cording, Edward J.
Geologic Considerations in Shotcrete Design, SUSS:July 73:175
Rock Engineering for Underground Caverns, with Alfred J. Hendron, Jr. and Don U. Deere, URC:72:567
See K. R. Chapman, PES:73:III-271

Cores, Arthur T.
See Royal H. Brooks, IR3:Sept 71:455:8389

Corey, Arthur T.
See Nikolas F. White, IR2:June 70:165:7376

Corey, Gilbert L.
See Royal H. Brooks, IR3:Sept 71:455:8389

Corey, John B.W.
Feasibility of Utility Tunnels in Urban Areas (Book Review), CE:Aug 71:89

Corley, W. Gene
See Harold W. Conner, ST3:Mar 70:637:7168

Cornell, C. Allin
Structural Safety and Probabilistic Methods, Theme Report, TB:73:Ib-10-911
Dsc, with Ross B. Corotis, ST7:July 69:1576:6644, of "Statistical Model for Live Floor Loads", ST10:Oct 68:2183:6146

Dsc, ST2:Feb 70:441:7047, of "Probability of Plastic Collapse Failure", ST8:Aug 69:1743:6751
See Francois N. Ayer, ST2:Feb 68:529:5818
See Ross B. Corotis, EM2:Apr 72:401:8816
See Jong-Cherng Peir, ST5:May 73:903:9747
See Robin K. McGuire, ST7:July 74:1351:10660
See Alfredo H.-S. Ang, ST9:Sept 74:1755:10777

Cornet, F. H.
Pore Fluid and Mechanical Behavior of Rock, RM13:72:825

Cornfield, G. M.
Deep Foundations - Piles and Caissons, State-of-Art Report 4A, TB:73:Ia-11-925

Cornish, Alan
See Syed R. Qasim, EE5:Oct 73:717:10098

Corns, Charles F.
Summary of Session I - Opening, SUSS:July 73:29
Summary of Session I -- Recent Developments in Design and Construction of Concrete Dams, ECCD:72:25
Dsc, PO1:Jan 71:248:7784, of "New Design Criteria for USBR Penstocks", PO1:Jan 70:129:7034

Corotis, Ross B.
First Passage of Nonstationary Random Processes, with Erik H. Vanmarcke and C. Allin Cornell, EM2:Apr 72:401:8816
TR:138:205
Nonlinear Stress-Strain Formulation for Soils, with M. Hassan Farzin and Raymond J. Krizek, GT9:Sept 74:993:10811
Statistical Analysis of Continuous Data Records, TE1:Feb 74:195:10362
Statistical Analysis of Live Load in Column Design, ST8:Aug 72:1803:9123
TR:138:384
Dsc, EM5:Oct 71:1591:8406, of "Random Processes for Earthquake Simulation", EM2:Apr 71:495:8057
Dsc, EM6:Dec 74:1272:10972, of "Nonstationary Response of Structural Systems", EM2:Apr 74:415:10502
See C. Allin Cornell, ST7:July 69:1576:6644

Corr, Brian R.
See Alan Jennings, EM5:Oct 74:1043:10837

Corradi, Leone
Inelastic Analysis of Reinforced Concrete Frames, with Osvaldo De Donato and Giulio Maier, ST9:Sept 74:1925:10832

Corradi, Peter
Role of Government in Public Works, PWS:Nov 72:187
Dsc: Milton Pikarsky, PWS:Nov 72:197
Clo: PWS:Nov 72:198

Corrado, Joseph A.
Failure Tests of Rectangular Model Steel Box Girders, with Ben T. Yen, ST7:July 73:1439:9854
Dsc: Nigel Cooke and Peter J. Moss, ST8:Aug 74:1721:10697
Clo: ST8:Aug 74:1722:10697
TR:139:404

Correa, Jose J.
Survey of Training Programs for Civil Engineers, CE:Aug 69:49
TR:135:679

Cort, Stewart S.
Keynote Address at Tall Buildings Conference, TB:73:C-33

Cortell, Jason M.
Ecological Assessment of Transportation Alternatives, with Donald A. Yonika, UT73:May 73:143

Cortright, Clifford J.
Reevaluation and Reconstruction of California Dams, PO1:Jan 70:55:7008
TR:136:368
States' Experiences in Dam Safety Regulations, IMROD:Sept 73:86

Corum, James M.
Motar Models of Prestressed Concrete Reactor Vessels, with Richard N. White and Jack E. Smith, ST2:Feb 69:229:6419
TR:136:21

Cosandey, Maurice
Welcoming Remarks at the Tall Buildings Conference, TB:73:C-29

Costantino, Carl J.
Response of Buried Cylinders Encased in Foam, with Eben Vey, SM5:Sept 69:1159:6769
TR:136:1104
See Joseph H. Heifitz, EM6:Dec 72:1511:9451

Costello, George A.
A More Exact Theory for Twisted Wire Cables, with James W. Phillips, TN: EM5:Oct 74:1096:10856
See James W. Phillips, EM2:Apr 73:331:9676

Costello, James F.
Failure Probabilities of Reinforced Concrete Beams, with Kuang-han Chu, ST10:Oct 69:2281:6848
TR:136:324

Costello, Lawrence S.
Urban Water Resources—Some Planning Fundamentals, UP1:Mar 74:57:10413

Costes, Nicholas C.
Apollo 11: Soil Mechanics Results, with W. David Carrier, III, James K. Mitchell and Ronald F. Scott, SM6:Nov 70:2045:7704
Dsc: John D. Nelson, SM10:Oct 71:1497:8410
Clo: SM12:Dec 72:1399:9394
TR:137:912

Costic, Paul J., III
Dsc, CE:Apr 71:41, on Population and People, CE:Dec 70:27
Dsc, CE:July 71:40, on The Other Side of "The Highway Explosion", CE:Feb 71:47

Cotten, Merrill R.
Submarine Floats in Steel Pipe Liner, CE:Dec 70:28

Cotteral, Joseph A., Jr.
Septic Tank Systems, with Dan P. Norris, SA4:Aug 69:715:6735
Dsc: Rein Laak and Thomas F. Zimmie, SA2:Apr 70:634:7190; John C. Hancock, SA2:Apr 70:636:7190
TR:136:174

Couarrubias, Sergio
See Wai F. Chen, EM5:Oct 71:1413:8421

Coudert, Jean F.
Dsc, with Fredric Raichlen, WW3:Aug 70:737:7443, of "Wave Refraction Near San Pedro Bay, California", WW3:Aug 69:379:6749

Coughlan, Francis P., Jr.
See William Whipple, Jr., SA5:Oct 70:1153:7631

Coughlin, Robert L.
Industrial Waste Surcharges, CWFE:Mar 71:323

Coull, Alexander
Analysis of Pierced Shear Walls, with R. D. Puri, ST1:Jan 68:71:5710
Dsc: Joseph Schwaighofer, ST10:Oct 68:2502:6135; Anatol A. Eremin, ST10:Oct 68:2503:6135; Jacob Gluck and Menachem Gellert, ST10:Oct 68:2504:6135
Clo: ST12:Dec 69:2983:6932
TR:135:401
Framed Tube Structures for High-Rise Buildings, with Nutan Kumar Subedi, ST8:Aug 71:2097:8301
Dsc: Avigdor Rutenberg, ST4:Apr 72:942:8802
Clo: ST11:Nov 72:9307
TR:137:1002
Model Investigations of Shear Wall Structures, with Andrew W. Irwin, ST6:June 72:1223:8936
Dsc: Sebastine Selvaraj, ST7:July 73:1650:9826
Clo: ST2:Feb 74:465:10306
TR:139:69
Pierced Shear Walls of Stepwise Variable Thickness, TN: ST5:May 74:1157:10536
Torsion Analysis of Symmetric Building Structures, with Bryan Stafford Smith, TN: ST1:Jan 73:229:9464
Dsc, ST7:July 70:1609:7386, of "Analysis of Shear Walls with Openings", ST10:Oct 69:2093:6824
Dsc, ST11:Nov 73:2326:10113, of "Approximate Analysis of Tall Wall-Frame Structures", ST2:Feb 73:199:9550
See Bryan Stafford Smith, TB:73:III-21-157

Coulson, James H.
Shear Strength of Flat Surfaces in Rock, RM13:72:77

Coulter, Carleton, III
Integration of Mechanical, Electrical, Structural and Architectural Systems in VA Hospital Facilities (Book Review), CE:Nov 71:8
Dsc, CO1:July 69:141:6640, of " Outline of Research Requirements for Construction", CO2:Oct 68:233:6189

Coulter, James B.
Water Quality Standards--Salvation or Curse, WQEF:Mar 70:97
See Andrew Heubeck, Jr., SA2:Apr 68:283:5900
See Frank A. Butrico, CWFE:Mar 71:93
See Frank A. Butrico, SA1:Feb 72:247:8739

Coulter, Richard G.
Improved Monitoring of Civil Engineering Education - The Need and a Method (Discussion), CEE:Feb 74:2-329

Cour, Francis R.
Inflection Point Method for Computing Cv, TN: SM5:May 71:827:8087

Coursey, Greer E.
New Shape in Shore Protection, CE:Dec 73:68
TR:139:545

Courtois, Peter D.
Dsc, CO2:Oct 68:256:6131, of "Wood Design Criteria for Concrete Formwork", CO2:Sept 67:13:5432
Dsc, CO4:Dec 74:655:10970, of "Bridge Construction Surveying", CO2:June 74:105:10602

Cousineau, Robert D.
See Awtar Singh, CE:Aug 71:52

Cousineau, Yvon
See Richard Bolvin, CE13:72:II-1485

Covarrubias, S.
Current Questions, Problems, and Research Needs, State-of-Art Report 2, with A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63

Covington, Dwight A.
See Edwin Rose, PO1:Mar 69:17:6455
See Harry Brenman, PO3:June 70:369:7350

Cowan, Henry J.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-522
Environmental Systems, Summary Report, TB:73:Ia-1-289
Dsc, EM1:Feb 70:101:7044, of "Fracture Mechanism in Concrete: How Much do We Know?", EM3:June 69:531:6604

Cowan, John
Dsc, ST1:Jan 72:367:8623, of "Bridge Engineer Looks at Esthetics of Structures", ST4:Apr 71:1227:8074
Dsc, PP1:Jan 73:131:9460, of "The Continuing Challenge of Engineering Education", PP3:July 72:351:9037

Cowper, G. Richard
On the Accuracy of Timoshenko's Beam Theory, EM6:Dec 68:1447:6285
Dsc: Robert Schmidt, EM6:Dec 69:1439:6929
Clo: EM4:Aug 70:497:7438
TR:135:1044

Cox, Doak C.
Dsc, with L. Stephen Lau and Frank L. Peterson, HY12:Dec 71:2095:8552, of "Hydrology and Geology of Honolulu Aquifer", HY2:Feb 71:233:7910

Cox, John L.
Conversion of Organic Waste to Fuel, with Warrack G. Willson and Edward J. Hoffman, EE3:June 74:717:10579

Cox, Robert G.
Dsc, HY7:July 70:1612:7384, of "Manning n for Cast-in-Place Concrete Pipe", HY3:May 69:995:6575
Dsc, with Charles A. Carlson, HY10:Oct 71:1763:8407, of "Initial Loss for Flood Estimation and Forecasting", HY12:Dec 70:2447:7737

Cox, William E.
See William R. Walker, HY11:Nov 74:1699:10958

Coxon, Roy E.
Stoplog Closure - Model Prototype Correlation, with Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562
Dsc: Eduard Naudascher, HY2:Feb 74:327:10305
TR:139:211

Coykendall, Richard
See Robert Horonjeff, ASC73:Mar 73:1

Coyle, Harry M.
Empirical Damping Constants for Sands and Clays, with Gary C. Gibson, SM3:May 70:949:7296
Dsc: Donald M. Burmister, SM2:Feb 71:499:7866
Clo: SM10:Oct 71:1487:8410
TR:136:1275
Skin Friction For Steel Piles in Sand, with Ibrahim H. Sulaiman, SM6:Nov 67:261:5590
Dsc: Kent A. Healy and Grant Meitzler, SM3:May 68:811:5922; Carl Raba, Jr. and Carl W. Garner, SM1:Jan 69:371:6324; Melvin T. Davisson, SM1:Jan 69:6324
Clo: SM5:Sept 69:1262:6754
TR:135:487
See Ibrahim H. Sulaiman, SM1:Jan 70:353:6989
See James D. Murff, SM5:May 73:375:9737

Craig, Curtis L.
Survey of Tunnel Portal Construction at U.S. Army Corps of Engineers Projects, with Lawrence R. Brockman, URC:72:167

Crain, Clark N.
Unique Role of Water in a Developing Economy, with David W. Greenman, IR1:Mar 69:79:6439
Dsc: Robert L. McFall, IR4:Dec 69:642:6930
Clo: IR3:Sept 70:348:7498
TR:135:975

Cramer, Calvin O.
Load Distribution in Multiple-Bolt Tension Joints, ST5:May 68:1101:5939
Dsc: John G. Shope, ST2:Feb 69:295:6373; E. George Stern, ST2:Feb 69:296:6373
Clo: ST11:Nov 69:2513:6867
TR:135:599

Cramer, L. E.
Dsc, IR4:Dec 69:607:6930, of "Role of Irrigation in the West's Expanding Economy", IR4:Dec 68:401:6281

Crandall, Keith Charles
ASCE and Graduate Students: Faculty Advisor's Opinion, PP3:July 73:307:9882
Dsc: Luke M. Snell, EI1:Jan 74:95:10252
Clo: EI4:Oct 74:362:10835
TR:139:390
A Complete Education -- The Management Role, CEE:Feb 74:1-489

Crandall, Lee W.
Dsc, CE:June 72:73, on Crane Safety, CE:Feb 72:61

Crane, Dale A.
See Amalio Gomez, IR3:Sept 68:295:6109

Craven, Terry N.
See T. Leslie Youd, SM12:Dec 72:1423:9394

Crawford, Carl B.
Building Damage From Expansive Steel Slag Backfill, with Kenneth N. Burn, SM6:Nov 69:1325:6879
Dsc: Jacob Feld, SM4:July 70:1470:7385; Milan Spanovich and Richard Fewell, SM5:Sept 70:1808:7499; John J. Bailey, Jr. and Henry M. Reitz, SM5:Sept 70:1810:7499; Logan R. Ritchie, Jr., SM5:Sept 70:1813:7499; Richard E. Gray and Henry A. Salver, SM5:Sept 70:1814:7499; John P. Gnaedinger and Robert J. Gnaedinger, Jr., SM6:Nov 70:2131:7643
Clo: SM7:July 71:1026:8224
TR:136:743
Building Damage from Expansive Steel Slag Backfill, with Kenneth N. Burn, PISST:71:235
Dsc: Jacob Feld, PISST:71:244; Milan Spanovich and Richard Fewell, PISST:71:247; John J. Bailey, Jr. and Henry M. Reitz, PISST:71:249; Logan R. Ritchie, Jr., PISST:71:252; Richard E. Gray and Henry A. Salver, PISST:71:253; John P. Gnaedinger and Robert J. Gnaedinger, Jr., PISST:71:256
Clo: PISST:71:258
Shallow Foundations -- Panel Presentation, PES:73:III-165

Crawford, Forrest E.
Management System Saves Highway Maintenance Dollars, CE:Aug 71:36
TR:137:501

Crawford, James P.
Shotcrete for Structural Rehabilitation, SUSS:July 73:367

Crawford, John E.
See Raman Pichumani, TE2:May 74:293:10516
See Raman Pichumani, GT74:June 74:303

Crawford, Sherwood F.
Eccentrically Loaded Bolted Connections, with Geoffrey L. Kulak, ST3:Mar 71:765:7956
Dsc: Y. W. Leung and D. J. Laurie Kennedy, ST12:Dec 71:2900:8557; Neil M. Hawkins, ST12:Dec 71:2902:8557
Clo: ST6:June 72:1328:8930
TR:137:530

Creamer, Robert H.
Employment Survey -- Environmental Technology, CEE:Feb 74:1-270

Crenshaw, Richard
An Approach to Performance Specifications for Public Buildings, with Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB:73:Ia-4-797

Crews, James E.
Bank Stabilization in Susquehanna River Basin, WW1:Feb 70:87:7061
Dsc: Carl R. Wilder, WW4:Nov 70:863:7645
Clo: WW3:Aug 71:583:8272
TR:136:586
The Education of an Engineer (A Continuing Story), with Charles C. McCloskey, III, PP4:Oct 72:543:9267
TR:138:544

Cribbins, Paul D.
See Arun Chatterjee, TE2:May 72:209:8885

Crickmore, Maurice J.
Effect of Flume Width on Bed-Form Characteristics, HY2:Feb 70:473:7077
Dsc: Li-San Hwang and David Divoky, HY2:Feb 71:353:7863
Clo: HY2:Feb 71:358:7863
TR:136:498
The Measurement of Offshore Shingle Movement, with C. B. Waters and W. A. Price, CE13:72:II-1005
Tracer Tests of Eddy Diffusion in Field and Model, HY10:Oct 72:1737:9285
Errata: HY9:Sept 73:1642:9961
TR:139:115

Criminale, W. O., Jr.
On Breaking of Internal Gravity Waves, ISSF:Aug 72:175

Crisp, Robert L., Jr.
Performance Record of Walter F. George Lock and Dam, PES:72:I-691

Criswell, Marvin E.
See M. Daniel Vanderbilt, ST1:Jan 74:11:10274
See Subhash C. Anand, CEE:Feb 74:1-971

Crites, Ronald W.
See Daniel F. Seidel, SA2:Apr 70:267:7211

Croke, K. G.
See J. E. Norco, UT73:May 73:89

Croley, Thomas E., II
Sequential Deterministic Optimization in Reservoir Operation, HY3:Mar 74:443:10426
Sequential Stochastic Optimization for Reservoir System, HY1:Jan 74:201:10263

Croll, J. G.A.
Convergence of Hypar Finite-Difference Solutions, with J. C. Scrivener, ST5:May 69:809:6540
Dsc: Salman H. Abu-Sitta, ST1:Jan 70:154:6990
Clo: ST8:Aug 70:1806:7442
TR:135:984
Edge Effects in Hyperbolic Paraboloid Shells, with J. C. Scrivener, ST3:Mar 69:457:6481
TR:135:186

Cromer, Charles C.
Dynamic Buckling of Cylindrical Shell, with Robert E. Ball, EM3:June 71:657:8187
TR:137:226

Croneberger, Don K.
First Prestressed Containment Vessel in a U.S. Commercial Nuclear Power Plant, CE:July 69:52
TR:135:698
See Chang Chen, PO2:Nov 73:429:10111

Cronk, Duane L.
Dsc, with Edmund S. Muskie, Robert Taft, Jr., Peter C. Kohnke and Victor H. Weidmann, CE:Apr 71:40, on Population and People, CE:Dec 70:27

Crooker, James O.
Reticulated Space Structures, with Kenneth P. Buchert, ST3:Mar 70:687:7180
  TR:136:854
See Richard T. Douty, ST11:Nov 74:2275:10952

Crookshank, Norman L.
See David Prandle, HY4:Apr 74:517:10472

Crose, James G.
Bandwidth Minimization of Stiffness Matrices, TN: EM1:Feb 71:163:7858
Nonlinear Analysis Method for Circular Plates, with Alfredo H.-S. Ang, EM4:Aug 69:979:6746
  TR:135:65

Cross, Edward F.
See Jon A. Cole, CEE:Feb 74:1-55

Cross, Ralph H., III
Collection of Oil Slicks, with David P. Hoult, WW2: May 71:313:8122
  Dsc: David L. Wilkinson, WW1:Feb 72:122:8686
  Clo: WW4:Nov 72:9310
  TR:137:716
Hydrographic Surveys Offshore—Error Sources, SU2: Nov 74:83:10908
Oil Boom for Emergency Harbor Use, with John J. Cunningham, WW1:Feb 73:27:9531
  TR:139:120
Oil Booms in Tidal Currents, with David P. Hoult, 12CEC:71:1745
Oil Booms in Tidal Currents, with David P. Hoult, WW1:Feb 72:25:8719
  TR:138:192
Tide Gage Frequency Response, WW3:Aug 68:317: 6072
  Dsc: Yuan Jen, WW2:May 69:238:6528; Jurjen A. Battjes, WW2:May 69:241:6528; Jacobus van de Kreeke, WW2:May 69:243:6528
  Clo: WW1:Feb 70:151:7049
  TR:135:811
Wave Transmission by Overtopping, with Charles K. Sollitt, WW3:Aug 72:295:9137
  TR:138:457
See Richard Robbins, TN: WW1:Feb 71:235:7891
See Charles K. Sollitt, CE13:72:III-1827
See Kenneth W. Wilson, CE13:72:III-1873

Crosthwaite, Charles D.
Dsc, PP4:Oct 72:729:9224, of "Considering Social Value in Engineering Projects", PP1:Jan 72:43:8655
Dsc, PP4:Oct 72:729:9224, of "Ethical and Social Responsibility in the Planning and Design of Engineering Projects", PP1:Jan 72:33:8657
Dsc, PP4:Oct 72:729:9224, of "Antidote for Environmental Hysteria", PP1:Jan 72:1:8663
Dsc, PP4:Oct 72:729:9224, of "Integrity and the Ecological Crisis", PP1:Jan 72:25:8677

Crouch, S. L.
See A. M. Starfield, RM14:73:421
See M. P. Hardy, RM14:73:749

Crow, Frank R.
See Russell R. Schoof, HY6:Nov 68:1596:6200

Crowe, Clayton T.
Are the Codes Safe for Wind Pressure?, with Alfredo Barriga, John A. Roberson and William V. Taylor, TN: ST8:Aug 74:1745:10723

Crowe, Edward Wright
Memoir of, TR:135:1122

Crump, David
Are Civil Engineers Socially Responsible?, CE:Jan 72:59
  TR:138:35

Crumpton, Carl F.
Repairs Delaminated Bridge Decks, with Bruce F. McCollom and F. Wayne Stratton, CE:Nov 74:55

Cruz, Paulo T.
See Carlos M. Nieble, 4PCSM:71:II167

Csallany, Sandor C.
See Wyndham J. Roberts, SA6:Dec 70:1349:7745

Csallner, Klausotto
See Friedrich K. Hartung, HY1:Jan 72:278:8620

Cuccioli, Robert
Longest Prestressed Girders for New York City Bridge, CE:Apr 71:72
  TR:137:320

Culler, Richard C.
See Ronald L. Hanson, IRS:Sept 72:309

Cullingford, Graham
Dsc, with David Scott, CO1:June 70:85:7308, of "Building Construction Games-General Description", CO1:July 69:1:6645
See David Scott, CO1:July 73:81:9832

Culp, Gordon L.
Tube Clarification Process, Operating Experiences, with Kou-ying Hsiung and Walter R. Conley, SA5: Oct 69:829:6823
  Dsc: Richard I. Dick, SA4:Aug 70:1009:7441
  Clo: SA1:Feb 71:103:7865
  TR:136:198

Culp, Russell L.
No Innovation in Wastewater Treatment, CE:July 72: 46
  TR:138:327
Wastewater Reclamation and Export at South Tahoe, with H. E. Moyer, CE:June 69:38
  TR:135:423
Dsc, SA5:Oct 69:980:7190, of "New Approaches to Wastewater Treatment", SA6:Dec 68:1121:6296
Dsc, SA1:Feb 72:273:8682, of "Implications of Nitrogenous BOD in Treatment Plant Design", SA5:Oct 71:709:8469

Culver, Charles G.
Bending Behavior of Cylindrical Web Panels, with Clive L. Dym and Darryl K. Brogan, ST10:Oct 72: 2291:9302
  TR:138:507
Buckling of Steel Columns at Elevated Temperatures, with Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682
  Dsc: Negussie Tebedge, ST2:Feb 74:483:10306
  Clo: ST9:Sept 74:1952:10772
  TR:139:302
Elastic Buckling of Stiffened Plates, with Clive L. Dym, TN: ST11:Nov 72:2641:9374
Inelastic Flange Buckling of Curved Plate Girders, with Ghulam A. Nasir, ST4:Apr 71:1239:8072
  Dsc: Anthony N. Palazotto, ST1:Jan 72:366:8623
  Clo: ST6:June 72:1329:8930
  TR:137:599
Local Instability of Horizontally Curved Members, with Ralph E. Frampton, ST2:Feb 70:245:7079
  TR:136:553
Static Model Tests of Curved Girder Bridge, with Paul P. Christiano, ST8:Aug 69:1599:6712
  Dsc: Chen Pang Tan and Sidney Shore, ST4:Apr 70:860:7191
  Clo: ST10:Oct 70:2232:7570
  TR:136:84
Steel Box-Girder Bridges—Ultimate Strength Considerations, ST12:Dec 74:2433:11014
Steel Column Buckling Under Thermal Gradients, ST8:Aug 72:1853:9150
  TR:138:414
Web Slenderness Requirements for Curved Girders, with Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620
  TR:139:263
Dsc, ST3:June 67:358:5253, of "Structural Analysis of Circular Curved Beamn", ST1:Mar 67:221:5099

Dsc, ST3:Mar 69:544:6430, of "Response of Horizontally Curved Bridge to Moving Load", ST9: Sept 68:2135:6125
Dsc, ST9:Sept 71:2446:8348, of "Progress Report on Steel Box Girder Bridges, Subcommittee on Box Girders of the ASCE-AASHO Task Committee on Flexural Members", ST4:Apr 71:1175:8068
See Paul F. McManus, ST5:May 69:853:6546
See Paul F. McManus, ST6:June 69:1233:6623
See Paul P. Christiano, ST8:Aug 69:1615:6713
See Paul J. Ossenbruggen, ST4:Apr 73:727:9681
See Nicholas Mariani, ST4:Apr 73:757:9684

Cummins, Reid S.
See James F. Halsey, WW1:Feb 72:135:8686

Cunge, Jean Andre
Dsc, HY2:Mar 69:758:6433, of "Computer Simulation of Unsteady Flows in Waterways", HY4:July 68:1083:6048
Dsc, HY2:Feb 72:399:8681, of "Deposition of Sediment in Transient Flow", HY6:June 71:837: 8191
See Dino Zanobetti, WW2:May 70:181:7259

Cunliffe, J. Peter
Dsc, PWS:Nov 72:29, of "The Engineer and the Crisis of the Cities", PWS:Nov 72:19

Cunningham, James A.
Performance of Two Slurry Wall Systems in Chicago, with Jose I. Fernandez, PES:72:I-1425

Cunningham, John A.
Book Review: Precedence Networks For Project Planning And Control, CE:Dec 73:24
Rate of Work Method: Simplified Project Control, with Edward P. Yarmowich, CE:Nov 73:62
TR:139:499

Cunningham, John J.
See Ralph H. Cross, III, WW1:Feb 73:27:9531

Cunningham, K. D.
Steel Construction, State-of-Art Report 5A, TB:73:Ia-4-753

Cunningham, Paul R.
See Edward A. Cecil, PO1:June 72:11:8967

Cunningham, Pinkney E.
Memoir of, TR:138:621

Cunningham, Seaborn Jones
Memoir of, TR:135:1123

Cunny, Robert W.
Vibratory In Situ and Laboratory Soil Moduli Compared, with Zelma B. Fry, SM12:Dec 73:1055: 10219
Dsc: Donald G. Anderson and Richard D. Woods, GT11:Nov 74:1254:10897; H. Turan Durgunoglu and Semih S. Tezcan, GT12:Dec 74:1303:10973
TR:139:510

Curi, Kriton
Dsc, EE6:Dec 74:1292:10971, of "Environmental Design for Istanbul Sewage Disposal", EE1:Feb 74: 101:10343

Curran, D. R.
See D. A. Shockey, RM14:73:709

Currie, Iain G.
See Ronald T. Hartlen, EM5:Oct 70:577:7606

Curry, Guy L.
Chance-Constrained Model of System of Reservoirs, with James C. Helm and Robert A. Clark, HY12: Dec 73:2353:10246
TR:139:497

Curth, Otto E.
See John F. Wiss, ST7:July 70:1461:7413

Curtis, Evan H.
Financial Consideration of Practicing Engineers in the Classroom (Discussion), CEE:Feb 74:2-333

Curtis, Kenneth S.
Land Surveying and Civil Engineering -- Professionally Related, But Different, with John G. McEntyre, CEE:Feb 74:1-134

Curtis, Lamont W.
Sedimentation in Retarding Basins, HY3:May 68:739: 5951
Dsc: Madhu S. Misra, HY1:Jan 69:566:6323
Clo: HY5:Sept 69:1736:6784
TR:135:646
Dsc, IR4:Dec 69:634:6930, of "Rational 'Rational' Method of Storm Drainage Design", IR4:Dec 68: 465:6301

Curtis, Robin P.
See John D. Lawson, HY7:July 70:1632:7384

Cusack, John J.
Effect of Changes in Civil Engineering Profession, PP1:Sept 70:107:7563
TR:136:1142

Cusens, Anthony R.
See Yew-Chaye Loo, ST8:Aug 70:1848:7442
See Yew-Chaye Loo, EM5:Oct 74:1051:10837

Custer, John C.
Dsc, CE:Aug 72:59, on Subsurface Freezing Used In Tunneling, CE:May 72:37

Custer, Stephen W.
Stochastic Model for BOD and DO in Estuaries, with Richard G. Krutchkoff, SA5:Oct 69:865:6834
TR:136:784

Cymbalista, Samuel
See Hillel I. Shuval, NSCD:71:429

Cypher, Robert S.
Cypher Is New CE Ad Manager, CE:Dec 73:80

Cypra, Kenneth J.
Homeowner Decision Making in Public Water Supply, UP1:Mar 73:97:9597
TR:139:179

Cyr, Norman A.
Finite Element Thermoelastoplastic Analysis, with Roger D. Teter and Brian B. Stocks, ST7:July 72: 1585:9068
Dsc: Robert G. Vos, ST5:May 73:960:9693
Clo: ST11:Nov 73:2310:10113
TR:139:108

Czyzewski, Harry
Metal Structure Geriatrics, with Earl C. Sutherland, CE:July 69:67
TR:135:184

DaCosta, Pedro C.C.
Effect of Urbanization on Storm Water Peak Flows, SA2:Apr 70:187:7198
Errata: SA1:Feb 71:105:7865
TR:13:503
Dsc, HY8:Aug 74:1178:10696, of "Testing Methods for Determination of Urban Runoff", HY9:Sept 73: 1319:9987
Dsc, HY10:Oct 74:1499:10839, of "Computer Simulation of Storm Water Runoff", HY12:Dec 73: 2185:10216

Da Cunha, L. Veiga
Dsc, HY8:Aug 70:1742:7439, of "Local Scour Around Bridge Piers", HY6:Nov 69:1919:6891
Dsc, HY9:Sept 73:1637:9961, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

DaDeppo, Donald A.
Dsc, with Robert Schmidt, EM1:Feb 69:296:6371, of "Complementary Energy Method for Buckling of Arches", EM2:Apr 68:639:5912
Dsc, with Robert Schmidt, EM1:Feb 72:273:8680, of "Effect of Weight on Large Deflections of Arches", EM3:June 71:637:8165
See Robert Schmidt, ST1:Jan 72:373:8623
See Robert Schmidt, EM5:Oct 74:1060:10837

Dafalias, J. F.
See J.-M. Chern, EM2:Apr 73:261:9646

Da Gama, C. D.
See F. Mello Mendes, RM14:73:107

Dagan, Gedeon
Dispersivity Tensor for Uniform Channel Flow, HY5:Sept 69:1699:6794
  Dsc: Hugo B. Fischer, HY4:Apr 70:1096:7189
  Clo: HY10:Oct 70:2123:7568
  TR:136:202
See Michael Stiassnie, WW2:May 72:209:8869

Daggett, Larry L.
Similitude in Free-Surface Vortex Formations, with Garbis H. Keulegan, HY11:Nov 74:1565:10941
Dsc, HY6:Nov 68:1590:6200, of "Plane Turbulent Reattached Wall Jets", HY1:Jan 68:95:5724

Dague, Richard R.
Interdistrict Apportionment of Flood Control Costs, with E. Robert Baumann and Paul E. Morgan, IR4:Dec 68:441:6298
  Dsc: Paul F. Keim, IR2:June 69:358:6581
  Clo: IR1:Mar 70:92:7114
  TR:135:882
Dsc, SA6:Dec 69:1194:6931, of "Dynamic Model of the Anaerobic Digestion Process", SA1:Feb 69:95:6418
See Gene F. Parkin, SA6:Dec 72:833:9403

Dahl, H. Douglas
Rock Mechanics Education -- A Panel Discussion, with K. E. Gray and Leonard Obert, RM14:73:747

Dahms, Lawrence D.
Let's Make the Needs Known so Someone Will Do Something About Them, NA:Mar 71:1

Dai, Yin-Ben
Dsc, WW4:Nov 69:595:6869, of "On Wave Damping in Harbors", WW4:Nov 68:489:6241

Daigger, Glen T.
See Ralph E. Roper, Jr., EE4:Aug 74:1048:10693

Dais, Jack L.
Soil Indentation by Translating Flanged Plate, EM4:Aug 71:1057:8285
  TR:137:634

Dajani, Jarir S.
Capital Cost Minimization of Drainage Networks, with Yakir Hasit, EE2:Apr 74:325:10448
Economic Guidelines for Public Utilities Planning, with Robert S. Gemmell, UP2:Sept 73:171:9977
  TR:139:350
Optimal Design of Urban Wastewater Collection Networks, with Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
  Dsc: Edward S. Webber, EE4:Aug 73:564:9893
  Clo: EE2:Apr 74:524:10437
  TR:139:479
See K. Preston White, UP1:Mar 74:43:10388

Dake, Earl D.
Memoir of, TR:139:564

Dakshinamurti, C.
See K. R. Swaminathan, HY1:Jan 72:289:8620

Dalgliesh, W. Alan
Research Review -- North and South America, State-of-Art Report 3, with R. D. Marshall, TB:73:Ib-7-383
Treatment of Peak Gusts on Cladding, ST9:Sept 71:2173:8356
  TR:137:741
Dsc, with Howard S. Ward, ST4:Apr 71:1370:8015, of "Wind Deflection of Tall Concrete Frame Buildings", ST7:July 70:1461:7413

Dallaire, Eugene E.
Advance in Refuse Management, CE:Aug 74:82
Cellular Steel Floors Mature, CE:July 71:70
  Dsc: Andrew B. Clement, CE:Jan 72:62
  TR:137:481
Computer-Driven Plotters: Will They Make the Draftsman Extinct?, CE:Feb 73:31
  Dsc: Morton B. Lipetz, CE:June 73:22
  TR:139:45
Current Practices in Drafting, Reproduction and Storage of Engineering Drawings, CE:Jan 74:73
Dallas-Ft. Worth: World's Largest, Best Planned Airport, CE:July 73:53
  Errata: CE:Nov 73:39
  TR:139:281
Designing Bridge Decks That Won't Deteriorate, CE:Aug 73:43
  Dsc: H. A. Lindberg, CE:Dec 73:22; Elmars J. Zemitis, CE:Dec 73:22; William E. Heath, CE:Feb 74:107; Harvey Shafer, CE:Feb 74:107
  Errata: CE:Sept 73:29
  TR:139:334
Designing Energy-Conserving Buildings, CE:Apr 74:54
  Dsc: I-t'an Yu, CE:July 74:29; John C. Kariots, CE:Sept 74:36
Electronic Distance Measurement Revolution Well Underway, CE:Oct 74:66
  Dsc: Tim Psomas, CE:Dec 74:20
Guidelines for Selecting a Programmable Calculator, CE:Mar 72:46
  TR:138:129
Halting Deck Deterioration on Existing Bridges, CE:Oct 73:81
  TR:139:475
Lindenwold Line: A Model for Rail Rapid Transit, CE:Sept 70:90
  Dsc: Train Control Systems, E. P. Foley, CE:Jan 71:64
  TR:136:820
Ocean Dumping: What and Where, If at All?, CE:Nov 71:58
  Dsc: A. Nami Qazi, CE:Mar 72:41
  TR:137:708
The Programmable Calculator: A Place In Civil Engineering, CE:Feb 72:70
  TR:138:106
Reproducing And Storing Engineering Drawings, CE:Mar 74:45
Short-range EDM: Big Boost for Surveyors, CE:Feb 71:69
  TR:137:172
Thermal-Pollution Threat Draws Nearer, CE:Oct 70:67
  TR:136:1093
Thermal power plants: Key problems, trends, CE:Dec 74:35
The U.S. Water Quality Program: Desperate Need for Planning Research, CE:Sept 71:63
  TR:137:561
The U.S. Water Quality Program Part II, CE:Oct 71:81
  TR:137:647
See Norman J. Fulco, CE:May 73:54

Dalrymple, Robert A.
An Offshore Beach Nourishment Scheme, 12CEC:71:955
The Spiral Wavemaker for Littoral Drift Studies, with Robert G. Dean, CE13:72:I-689
Dsc, with Robert G. Dean, WW2:May 71:423:8086, of "Piling-Up Behind Low and Submerged Permeable Breakwaters", WW2:May 70:359:7283

Dsc, HY11:Nov 74:1725:10898, of "Damping of Water Waves Over Porous Bed", HY12:Dec 73:2263:10218
See Robert G. Dean, WW3:Aug 70:733:7443
See R. K. Price, 12CEC:71:1813

Dalton, Charles
Influence of Secondary Flow on Drag Force, with Frank D. Masch, EM5:Oct 68:1249:6193
Dsc: Sylvester Petryk, EM5:Oct 69:1288:6800
Clo: EM2:Apr 70:164:7188
TR:135:940
See Robert A. Helfinstine, EM2:Apr 72:357:8804

Dalton, Robert E.
See William S. Gaither, WW2:May 69:131:6549

Dalton, Dalton, Little & Newport
State Office Building, TB:73:C-P-434

Daly, J. F.
Grouting: Then, Now and Where, EFFD:Mar 74:57

Damours, Leon W.
The Lower Mekong Development Program, CE:July 70:58
TR:136:541

Dana, Jon R.
See Richard M. Barker, EM3:June 74:477:10590

Dandekar, Mohan M.
Dsc, HY9:Sept 70:1905:7497, of "Limit Slope in Uniform Computations", HY1:Jan 70:95:7011
Dsc, HY9:Sept 71:1569:8345, of "Hydraulic Jump Within Gradually Expanding Channel", HY1:Jan 71:31:7831
Dsc, HY12:Dec 71:2107:8552, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994

d'Angremond, K.
Use of Asphalt in Breakwater Construction, with H. J. Th. Span, J. van der Weide and A. J. Woestenenk, 12CEC:71:1601

Daniel, Arthur R., Jr.
Bicycle Theft and Registration - An Overview, BP73:Dec 73:492

Daniel, Arthur W.T.
Dsc, GT9:Sept 74:1067:10769, of "Cubical Triaxial Tests on Cohesionless Soil", SM10:Oct 73:793:10057
See Eldon Burley, GT5:May 74:559:10504

Daniel, David E.
Stress-Strain Properties of Compacted Clays, with Roy E. Olson, GT10:Oct 74:1123:10869
See Roy E. Olson, GT74:June 74:85

Daniels, J. Hartley
Behavior of Composite-Beam to Column Joints, with Geoffrey D. Kroll and John W. Fisher, ST3:Mar 70:671:7173
TR:136:616
Plastic Subassemblage Analysis for Unbraced Frames, with Le-Wu Lu, ST8:Aug 72:1769:9148
TR:138:409
See Pavel J. Marek, ST4:Apr 71:1081:8067

Daniels, Stacy L.
Dsc, with Steven E. Richardson, EE3:June 74:755:10564, of "Oxygen Theory in Biological Treatment Plant Design", SA3:June 72:471:8938

Danielson, Jeris
See Raziq Qazi, IR2:June 74:143:10627

Dannemann, Robert W.
Dsc, ST12:Dec 71:2929:8557, of "Behavior of Continuous Crane Rails", ST4:Apr 71:1081:8067

Dannenbaum, James D.
236 Housing - An Opportunity for Community Involvement, PP1:Jan 73:107:9507
TR:139:172

D'Appolonia, David J.
Effects of Foundation Construction on Nearby Structures, 4PCSM:71:I189
Dsc: Jacob Feld, 4PCSM:72:III171; D. A. Greenwood and I. W. Farmer, 4PCSM:72:III172
Clo: 4PCSM:72:III175
Evaluation of Pore Pressures Beneath and Embankment, with T. William Lambe and Harry G. Poulos, SM6:June 71:881:8213
Dsc: David H. Trollope and M. Hugh Philip, SM2:Feb 72:235:8683; Sachinder N. Gupta, SM3:Mar 72:302:8751; Ravikumar Bhaskaran, SM3:Mar 72:304:8751
TR:137:857
Floating Foundations for Control of Settlement, with T. William Lambe, SM6:June 71:899:8215
Dsc: Ulrich W. Stoll, SM10:Oct 71:1508:8410
TR:137:981
Initial Settlement of Structures on Clay, with Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438
Dsc: Max L. Calhoon, SM3:Mar 72:306:8751; Kalidas Banerjee, SM9:Sept 72:961:9158
Clo: SM4:Apr 73:343:9639
TR:138:43
Method for Predicting Initial Settlement, with T. William Lambe, SM2:Mar 70:523:7167
Dsc: Chandrakant S. Desai, SM6:Nov 70:2153:7643
TR:136:808
Performance of Four Foundations on End Bearing Piles, with T. William Lambe, SM1:Jan 71:77:7807
Dsc: D. Joseph Hagerty, SM7:July 71:1043:8224; Harry G. Poulos, SM9:Sept 71:1343:8347; Leslie S. Rolko, SM10:Oct 71:1500:8410
TR:137:453
Sand Compaction with Vibratory Rollers, with Robert V. Whitman and Elio E. D'Appolonia, SM1:Jan 69:263:6366
Errata: SM1:Jan 70:330:6989
TR:135:67
Settlement of Spread Footings on Sand, with Elio E. D'Appolonia and Richard F. Brissette, SM3:May 68:735:5959
Dsc: Peter J. Moore, SM1:Jan 69:441:6324; Wesley G. Holtz and Harold J. Gibbs, SM3:May 69:900:6525; Ralph B. Peck and Abdel Rahman S. Bazaraa, SM3:May 69:905:6525; Arnoldo J.L. Bolognesi, SM3:May 69:909:6525
Clo: SM2:Mar 70:754:7115
TR:135:197
Dsc, SM1:Jan 72:126:8622, of "Bearing Capacity of Anisotropic Cohesive Soil", SM5:May 71:753:8146

D'Appolonia, Elio E.
Dynamic LoadingP, PISST:71:141
Dynamic Loadings, SM1:Jan 70:49:7010
TR:136:429
A View of the Practice of Foundation Engineering in the United States, with John C. Regan, 4PCSM:71:II365
See David J. D'Appolonia, SM3:May 68:735:5959
See David J. D'Appolonia, SM1:Jan 69:263:6366
See Richard D. Ellison, SM4:Apr 71:661:8052

Dar, Sidiq M.
Stress Analysis of Hollow Cylindrical Inclusions, with Robert C. Bates, GT2:Feb 74:123:10364
Dsc: Subhash C. Anand, GT11:Nov 74:1257:10897

Darayanani, Sital
Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, TB:73:Ia-2-319

Darby, William P.
Optimization of Urban Air Monitoring Networks, with Paul J. Ossenbruggen and Constantine J. Gregory, EE3:June 74:577:10577

D'Ardenne, Walter H.
An Evaluation of Undersea Nuclear Reactor Power Systems, CEO-II:70:315

Dare, Charles E.
See Marvin M. Johnson, TE4:Nov 71:667:8534

Dareing, D. W.
See Tseng Huang, EM1:Feb 69:167:6400

Darling, John M.
Surf Observations Along the United States' Coasts, WW1:Feb 68:11:5786
  Dsc: Johan A. Zwamborn, WW4:Nov 68:522:6204
  Clo: WW2:May 69:218:6528
  TR:135:621

Darragh, Robert D.
See Thomas D. Wosser, CE:Mar 70:65

Daruwalla, M. P.
Crude Storage: Tanks or Caverns?, with J. N. Hagg, CE:Apr 71:38
  TR:137:263

Darvas, Louis A.
Dsc, HY6:Nov 69:2158:6866, of "Reducing Cavitation in Valves", HY6:Nov 68:1475:6255
Dsc, HY8:Aug 71:1246:8267, of "Performance and Design of Labyrinth Weirs", HY11:Nov 70:2337:7691
Dsc, HY10:Oct 71:1769:8407, of "Cavitation Parameters for Outlet Valves", HY12:Dec 70:2519:7771

Das, Bishnu Prasad
Bed Scour at End-Dump Channel Constrictions, HY12:Dec 73:2273:10228
  TR:139:487
Stability of Rockfill in End-Dump River Closures, HY11:Nov 72:1947:9381
  TR:138:567
Dsc, CO1:July 73:210:9822, of "Theories of Closure of Rockfill Dams", CO2:Nov 71:313:8542

Das, Madan M.
Suspended Sediment and Longshore Sediment Transport Data Review, CE13:72:II-1027
Waves Generated by Horizontal Motion of a Wall, with Robert L. Wiegel, WW1:Feb 72:49:8707
  TR:138:137
Waves Generated by Large Ships and Small Boats, with Joe W. Johnson, 12CEC:71:2281

Das, Y. C.
See N. S. V. Kameswara Rao, EM2:Apr 71:271:8034
See P. Dayaratnam, TB:73:II-15-303

Dascal, Oscar
Failure of a Test Embankment on Sensitive Clay, with J. P. Tournier, Francois A. Tavenas and Pierre La Rochelle, PES:72:I-129

Daschner, F.
See Emil Grasser, TB:73:III-21-290

da Silveira, A. F.
See J. Laginha Serafim, PO2:Nov 68:240:6201

DaSilveira, Icarahy
Dsc, SM1:Jan 70:326:6989, of "Circular and Logarithmic Spiral Slip Surfaces", SM1:Jan 69:227:6361
Dsc, SM3:May 70:1056:7249, of "Field Studies of Response of Peat to Plate Loading", SM4:July 69:949:6652
Dsc, IR2:June 70:224:7311, of "Transient Functions for Land Drainage", IR3:Sept 69:361:6768
Dsc, SM12:Dec 72:1416:9394, of "Consolidation of Clay Layer in Two Dimensions", SM1:Jan 72:79:8674
Dsc, SM11:Nov 73:1019:10112, of "Analysis of Ultimate Loads of Shallow Foundations", SM1:Jan 73:45:9480

Dass, Purushottam
Subsurfqce Drainage Solutions by Galerkin's Method, with Hubert J. Morel-Seytoux, IR1:Mar 74:1:10397
  Dsc: Petrus A.C. Raats and Jan van Schilfgaarde, IR4:Dec 74:519:10975

Datta, V. K.
Analysis and Design of Sacrificial Shield Wall, SDNPF:Dec 73:291

Dattatri, Jade
Wave Forecasting for the West Coast of India, with P. S. Renukaradhya, 12CEC:71:203
Wave Forecasting for the West Coast of India, with P. S. Renukaradhya, WW3:Aug 71:505:8303
  Dsc: Peter H. Feldhausen and Subrata K. Chakrabarti, WW1:Feb 72:141:8686; Krishnamurthy Gopalakrishnan, WW2:May 72:286:8863
  Clo: WW4:Nov 72:9310
  TR:137:1036
Waves Off Manalore Harbor - West Coast of India, WW1:Feb 73:39:9532
  Dsc: Michael R. Gourlay, WW1:Feb 74:54:10308
  Clo: WW4:Nov 74:388:10903
  TR:139:136
Dsc, WW1:Feb 72:111:8686, of "Irregular Wave Action on Rubble-Mound Breakwaters", WW2:May 71:279:8114
Dsc, WW3:Aug 72:421:9081, of "Laboratory Study of Lift Forces on Circular Piles", WW4:Nov 71:595:8495
Dsc, WW1:Feb 73:134:9527, of "Effect of Irregular Wave Trains on Rubble-Mound Breakwaters", WW1:Feb 72:1:8693
Dsc, HY8:Aug 73:1282:9895, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295
Dsc, with Irvathur Vasudeva Nayak, WW4:Nov 74:399:10903, of "Characteristics and Behavior of Pacific Coast Tidal Inlets", WW3:Aug 73:325:9927
Dsc, WW4:Nov 74:402:10903, of "Extreme Wave Height Distributions Over Oceans", WW3:Aug 73:355:9939

Daugherty, Charles
Dsc, EFSE:Aug 74:369, of "Benefits of Tunnel Measurements", EFSE:Aug 74:366

Davenport, Alan G.
Wind Loading and Wind Effects, Theme Report, TB:73:Ib-7-335
Dsc, with Michael Hogan, ST6:June 71:1807:815, of "Wind Deflection of Tall Concrete Frame Buildings", ST7:July 70:1461:7413
See Milos Novak, EM1:Feb 69:291:6371
See Milos Novak, EM1:Feb 70:17:7076
See Salman H. Abu-Sitta, ST9:Sept 70:1889:7524
See Peter W. Chen, ST11:Nov 71:2679:8526

David, D.
See Amos Komornik, SM1:Jan 69:209:6358

David, Milton L.
The Economic Evaluation of Irrigation in Humid Areas, with Gary M. Mennem, OIDS:72:443

David, Wilfredo P.
Predicting Irrigation Requirements of Crops, with Edward A. Hiler, IR3:Sept 70:241:7507
  Clo: IR3:Sept 71:534:8346
  TR:136:1037

Davidson, Bruce M.
Dsc, CE:Feb 72:39, on Professional Input to Engineering Education, CE:Aug 71:27

Davidson, Hugh L.
See Wai F. Chen, SM6:June 73:433:9816

Davidson, Jack R.
See Howard C. Hogg, IR1:Mar 69:127:6448

Davidson, John L.
See Milton E. Harr, SM4:July 69:933:6651

Davidson, Luther W.
See Hon-Yim Ko, SM1:Jan 73:1:9496

Davies, Clarence W.E.
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Davies, E. M.
New Criterion for Resource Scheduling, TE4:Nov 73:741:10118
TR:139:458

Davies, G.
See R. S. Lamb, ST3:Mar 73:583:9583

Davies, J. M.
See Eric R. Bryan, TB:73:II-17-643

Davies, John Duncan
Behavior of Square Tanks on Elastic Foundations, with John Edward Long, EM3:June 68:753:5985
Dsc: Shu-t'ien Li, EM1:Feb 69:299:6371
TR:135:870

Davies, William E.
Buffalo Creek Dam Disaster: Why It Happened, CE: July 73:69
Dsc: Justiniano Allende Posse, CE:May 74:20
TR:139:300

Davinroy, Thomas B.
Density Altitude Variations and Runway Length, TE4:Nov 71:591:8512
Errata: TE1:Feb 73:9526
TR:137:977

Davis, Anne Logan
Air Pollution -- A Chest Physician's View, CEWAU: 74:141

Davis, Benjamin O., Jr.
Bicycles for the Human Environment: New Developments at the U.S. Department of Transportation, BP73:Dec 73:30

Davis, Calvin V.
Dsc, IR4:Dec 69:616:6930, of "Role of Irrigation in the West's Expanding Economy", IR4:Dec 68:401:6281

Davis, Charles S.
See Wei-Wen Yu, ST10:Oct 73:2061:10059

Davis, Darryl W.
Dsc, HY9:Sept 72:1730:9156, of "Two-Distribution Method for Flood Frequency Analysis", HY1:Jan 72:29:8639

Davis, E. M.
Enteric and Pathogenic Bacteria Dieoff Effects by Algae, with M. Pen and Earnest F. Gloyna, NSCD: 71:539

Davis, Edward H.
Bearing Capacity of Anisotropic Cohesive Soil, with John T. Christian, SM5:May 71:753:8146
Dsc: David J. D'Appolonia, SM1:Jan 72:126:8622; Adel S. Saada, SM1:Jan 72:132:8622; Moshe Livneh and Jacob Greenstein, SM2:Feb 72:232:8683
Clo: SM11:Nov 72:9306
TR:137:678
Dsc, with Harry G. Poulos, SM1:Jan 70:334:6989, of "An Analysis of Consolidation Theories", SM1:Jan 69:285:6370
See Anwar E.Z. Wissa, SM10:Oct 71:1393:8447
See Madhira Radha Madhav, EM6:Dec 74:1227:11033

Davis, Edward W.
CPM Use in Top 400 Construction Firms, CO1:Mar 74:39:10395

Davis, Ernst M.
Bacterial Dieoff in Ponds, with Earnest F. Gloyna, SA1:Feb 72:59:8714
Dsc: Thiruvenkatachari Viraraghavan, SA5:Oct 72:801:9225; Shundar Lin, SA6:Dec 72:1049:9393
Clo: EE3:June 73:379:9758
TR:139:115

Davis, Francis Marion
Dsc, CE:Feb 74:20, on San Antonio: Classic "Stop the Freeway" Case, CE:July 73:59

Davis, Fred J.
See Malcolm H. Logan, PES:73:III-315

Davis, George H.
See Russel H. Langford, HY7:July 70:1391:7392

Davis, Harry H.
See Dilip S. Mehta, SA3:June 72:471:8938

Davis, John J.
Generic Feed Forward Control of Activated Sludge, with Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803
Dsc: Richard I. Dick, EE3:June 74:770:10564; Ralph K. Cavin and Gary R. Kramer, EE3:June 74:772:10564
TR:139:210

Davis, John P.
Problems of Inland Waterway Lock Dimensions, WW2:May 70:451:7295
Dsc: Bruce Barker and Gerald D. Seinwill, WW4: Nov 70:874:7645; Sol M. Gleser, WW1:Feb 71:223:7868; Carl H. Guam, WW2:May 71:428:8086
TR:137:82
Tonnage Capacity of Locks, WW2:May 69:201:6577
Dsc: Alan R. Chandler, WW4:Nov 69:602:6869; Eric E. Bottoms, WW1:Feb 70:161:7049
Clo: WW3:Aug 70:729:7443
TR:136:134
Dsc, TE1:Feb 70:121:7048, of "Economic Location of Locks", TE1:Feb 69:77:6397

Davis, Philip K.
Wall Effect on a Sphere in a Rotating Viscous Fluid, HY10:Oct 70:2019:7625
TR:136:1052

Davis, R. T.
See William E. Alzheimer, EM4:Aug 68:905:6066

Davis, Ray R.
Dsc, CE:July 72:77, on Engineering and Today's Social Problems, CE:Mar 72:64

Davis, Raymond Eugene
Concrete Arch Culvert Behavior-Phase 2, with Alfred E. Bacher, ST11:Nov 72:2329:9325
TR:138:521
Concrete Pipe Culvert Behavior - Part 2, with Alfred E. Bacher, ST3:Mar 74:615:10408
Concrete Pipe Culvert Behavior—Part 1, with Alfred E. Bacher and John C. Obermuller, ST3:Mar 74:599:10404
Model and Prototype Studies of Box Girder Bridge, with Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165:8631
TR:138:70
Structural Behavior of Concrete Arch Culvert, ST12: Dec 69:2665:6942
Dsc: Pablo Girault, ST7:July 70:1620:7386; Alfred E. Bacher, ST9:Sept 70:1970:7567
Clo: ST4:Apr 71:1348:8015
TR:136:430

Davis, Robert
Use of Trees as Bench Marks in Expansive Clays, with Richard Tucker, TN: SU1:Sept 73:149:10017

Davis, Robert C.
Dsc, SM9:Sept 71:1348:8347, of "Aging Effects on Swell Potential of Compacted Clays", SM3:Mar 71: 529:7951

Davis, Robert O., Jr.
Dsc, with Phillip A. Abbott, EM1:Feb 69:297:6371, of " Numerical Integration of Forced-Vibration Equations", EM3:June 68:711:5968

Davis, Sterling
Subsurface Irrigation Easily Automated, with Sheldon D. Nelson, IR1:Mar 70:47:7135
  TR:136:483
See Sterling J. Richards, IR4:Dec 73:457:10243

Davison, James H.
Stability of Braced and Unbraced Frames, with Peter F. Adams, ST2:Feb 74:319:10371

Davisson, Melvin T.
Model Study of Laterally Loaded Piles, with James R. Salley, SM5:Sept 70:1605:7511
  Dsc: Osman A. El-Ghamry and Hsai-Yang Fang, SM4:Apr 71:700:8014; Prabhakar J. Pise, SM5: May 71:813:8083; Sol M. Gleser, SM6:June 71: 936:8158
  Clo: SM8:Aug 72:829:9078
  TR:137:839
Settlement Histories of Four Large Tanks on Sand, with James R. Salley, PES:72:I-981
Settlement Histories of Two Pile Supported Grain Silos, PES:72:I-1155
Dsc, SM1:Jan 69:6324, of "Skin Friction For Steel Piles in Sand", SM6:Nov 67:261:5590
See Mahmood M. Alizadeh, SM5:Sept 70:1583:7510

Dawdy, David R.
Evaluation of Effects of Land-Use Changes on Streamflow, with James M. Bergmann, IR73:Aug 73:619
See E. R. Close, HY5:May 70:1167:7297

Dawe, John L.
Welded Connections under Combined Shear and Moment, with Geoffrey L. Kulak, ST4:Apr 74:727: 10457

Dawes, Julius H.
Influence of Soils on Water Yields, IAWM:72:85
Tools for Water-Resource Study, IR4:Dec 70:403: 7720
  TR:136:1265

Dawkins, William P.
Analysis of Tunnel Liner-Packing Systems, EM3:June 69:679:6622
  Dsc: H. F. Yuan, EM6:Dec 69:1447:6929
  Clo: EM4:Aug 70:499:7438
  TR:135:1074
Dsc, ST4:Apr 74:822:10442, of "Finite Element for Reinforced Concrete Frame Study", ST7:July 73: 1371:9835
See Hudson Matlock, EM4:Aug 71:1083:8282

Dawson, Ralph G.
Post-Buckling of Geometrically Imperfect Plates, with Alastair C. Walker, ST1:Jan 72:75:8630
  TR:138:67
See Alastair C. Walker, ST6:June 70:1250:7314

Dawson, Thomas H.
See Furman W. Barton, TN: EM3:June 73:9765

Day, George E.
Steel Penstock Design For Tims Ford Dam, with Horace S. Beckner, PO1:Jan 71:203:7803
  TR:137:139
Dsc, with Horace S. Beckner, PO1:Jan 71:250:7784, of "New Design Criteria for USBR Penstocks", PO1:Jan 70:129:7034

Day, Harold J.
See George E. Kanaan, TN: CE2:Sept 73:265:9969

Dayal, Umesh
Dsc, with John H. Allen, GT1:Jan 74:85:10250, of "Low Velocity Penetration of Kaolin Clay", SM5: May 73:375:9737
Dsc, with John H. Allen, GT5:May 74:553:10504, of "Factors Affecting Coefficient for Earth Pressure", SM7:July 73:527:9863

Dayaratnam, P.
Stability and Drift Problem, State-of-Art Report 3, with Y. C. Das, TB:73:II-15-303
See S. Venkateswara Rao, ST9:Sept 71:2431:8348

Dayton, David J.
See Walter F. Anton, PES:72:I-735
See Walter F. Anton, PES:72:I-853
See Bernard B. Gordon, GT5:May 74:523:10553

De, Harihar
Dsc, with George R. Sinclair, ST10:Oct 71:2610: 8411, of "Computer's Role in Transmission Line Design", ST1:Jan 71:63:7817

De, Prakas Kumar
Dsc, SM4:Apr 73:363:9639, of "Analysis of Waco Dam Slide", SM9:Sept 72:869:9210

Deacon, John A.
See Carl L. Monismith, TE2:May 69:317:6543

de Ambrosis, L. P.
See Harry G. Poulos, SM7:July 71:1040:8224

de Amorim, Ana M.A.
See Ihor D. Kotchergenko, HY3:Mar 74:497:10379

Dean, Donald L.
Analysis For Truss Buckling, with Frederick R. Jetter, TN: ST8:Aug 72:1893:9086
Analysis of Ribbed Plates, with Cyrus Omid'varan, ST3:Mar 69:411:6474
  Errata: ST1:Jan 70:147:6990
  TR:135:183
Field Solutions for Shear Grids, ST12:Dec 71:2845: 8594
  Errata: ST2:Feb 73:279:9525
  TR:137:969
Macro Approach to Discrete Field Analysis, with Hota V.S. GangaRao, EM4:Aug 70:377:7463
  Errata: EM3:June 71:1022:8154
  TR:136:996
Models For Approximate Frame Analysis, with R. Richard Avent, TN: ST8:Aug 72:1903:9086
Dsc, ST9:Sept 69:1997:6755, of "Behavior of Howe, Pratt, and Warren Trusses", ST2:Feb 69:183:6388
See J. C. Smith, ST9:Sept 73:1837:10031

Dean, Frederick C.
Dsc, with Samuel J. Harbo, Jr., EE3:June 73:385: 9758, of "Environmental Planning and Ecological Possibilities", SA3:June 72:579:8994

Dean, R. Gordon
Elastic Design for Earthquake Motions, State-of-Art Report 5, TB:73:II-14-215

Dean, Robert G.
Numerical Modeling of Constituent Transport in Bay Systems, with R. B. Taylor, CE13:72:III-2227
Relative Validities of Water Wave Theories, WW1: Feb 70:105:7092
  Dsc: P. Suryaprakasa Rao and C. P. Mohamed, WW1:Feb 71:212:7868
  Clo: WW1:Feb 72:69:8686
  TR:136:794

Dsc, with Robert A. Dalrymple, WW3:Aug 70:733:7443, of "Ocean Wave Forces on a Subsurface Sphere", WW3:Aug 69:291:6722
See Omar H. Shemdin, HY3:May 69:1060:6524
See Akhileshwar P. Verma, CEO-II:70:1069
See R. K. Price, 12CEC:71:1813
See Robert A. Dalrymple, WW2:May 71:423:8086
See Robert A. Dalrymple, CE13:72:I-689
See Morrough P. O'Brien, CE13:72:II-761

Deane, Compton
Wave Climate in the Eastern Caribbean, WAVES: Sept 74:214

Deaner, David G.
See Harvey F. Collins, EE6:Dec 73:761:10190

Deans, J. J.
Dynamic Response of Steel Chinney Liners to Flue Gas Flow, with J. G. Willmot, EPCE:Aug 74:47

de A. Queiroz, Lincoln
Seepage Control in the Rio Jaguari Dam and Dike, with Hamilton G. de Oliveira, Ruy Taiji Mori and Francisco Nazario, 4PCSM:71:II293

de Arellano, Luis Ramirez
See Raul J. Marsal, PES:72:I-703

Dearinger, John A.
Evaluating Recreational Potential of Small Streams, UP1:July 72:85:9046
TR:138:478
Structural and Terrain Movements, SU2:Nov 74:123:10896
See J. David Reynolds, SU1:Apr 70:87:7228

Deb, Arun K.
Least Cost Design of Branched Pipe Network System, EE4:Aug 74:821:10711
Least Cost Design of Water Main System in Series, TN: EE3:June 73:405:9764
Numerical Solution of Filtration Equations, SA2:Apr 70:195:7199
Dsc: Kenneth J. Ives, SA6:Dec 70:1445:7713
Clo: SA6:Dec 71:929:8555
TR:137:14
Optimization in Design of Hydraulic Network, with Asok K. Sarkar, SA2:Apr 71:141:8032
Dsc: Jon C. Liebman and Earl D. Brill, Jr., SA5: Oct 71:786:8409; Grahame G. Boyne, SA6:Dec 71:945:8555; Santosh R. Goswami, SA6:Dec 71:946:8555
Clo: SA5:Oct 72:774:9225
TR:137:670
Theory of Sand Filtration, SA3:June 69:399:6593
Dsc: Shyam S. Mohanka and Adnan Gur, SA1: Feb 70:183:7046; Kenneth J. Ives, SA1:Feb 70:185:7046; Albert M. Wright and Michael C. Kavanaugh, SA2:Apr 70:620:7190
Clo: SA6:Dec 70:1437:7713
TR:136:62
Dsc, SA5:Oct 70:1282:7569, of "Theory of Multilayer Filtration", SA6:Dec 69:1079:6959
Dsc, SA6:Dec 71:949:8555, of "Least Cost Sand Design for Iron Removal", SA2:Apr 71:171:8060
Dsc, EE2:Apr 73:159:9635, of "Filtrability Study on Secondary Effluent Filtration", SA3:June 72:505:8965
Dsc, EE6:Dec 74:1294:10971, of "Equivalent Pipe Methods for Optimizing Water Networks--Facts and Fallacies", EE1:Feb 74:93:10375

DeBano, L. F.
Fire in Vegetation Management: Its Effects on Soil, with Raymond M. Rice, IAWM:72:327

De Beer, E.
Foundation Design, Summary Report, TB:73:Ia-11-1026

DeBenedittis, Charles A.
Contracting Practices, State-of-Art Report 1, TB:73:Ia-4-669

Debler, Walter
The Towing of Bodies in a Stratified Fluid, ISSF:Aug 72:193

DeBoer, Darrell W.
See Glenn O. Schwab, IR1:Mar 69:199:6480

DeBoer, J. G.
See E. Robert Baumann, IR73:Aug 73:711

de Capiteau, T. F.
Hump Tunnel in Penn Central Yard, CE:May 69:59
TR:135:258

de Carvalho, Manuel Mendes
Spectral Computations on Pressure Wave Gauge Records, with Fernando Silveira Ramos and Carlos de Campos Moraes, 12CEC:71:65
See Carlos de Campos Moraes, CE13:72:I-707

DeCicco, Paul R.
Multiphase Health Screening Facility Design, PP4: Oct 72:707:9299
TR:138:593

Decker, Edwin R.
Replacement-Lock and Dam No. 26: History, Objectives and Scope, WW1:Feb 70:1:7070
TR:136:1183

Decker, Rey S.
See James L. Sherard, PES:72:I-589
See James L. Sherard, PES:72:I-653

Decker, Wayne L.
Weather Information and Irrigation Scheduling - I. Weather and Irrigation Demand, OIDS:72:65
Dsc, IR1:Mar 69:239:6428, of "A Perspective on Weather Control", IR1:Mar 68:73:5845

DeCoursey, Donn G.
Flow Analysis of Large Triangular Weit, with Bruce J. Blanchard, HY7:July 70:1435:7405
Dsc: Frederic T. Mavis, HY12:Dec 70:2675:7711; Gaylord V. Skogerboe and Wynn R. Walker, HY4:Apr 71:609:8012; T. R. Chandrasekhara and S. Venkataramana, HY5:May 71:736:8081
Clo: HY4:Apr 72:703:8799
TR:137:470

DeDecker, R. William
See Bernard L. Fry, TE3:Aug 71:411:8277

DeDonato, Osvaldo
Dsc, with Giulio Maier, EM4:Aug 72:998:9125, of "Analysis of Structures by Quadratic Programming", EM5:Oct 71:1495:8431
Dsc, with Alberto Franchi, EM1:Feb 74:126:10303, of "Elastic-Plastic Analysis by Quadratic Programming", EM6:Dec 72:1547:9435
See Leone Corradi, ST9:Sept 74:1925:10832

Dee, Dennis M.
See Robert L. Wiegel, WW2:May 70:307:7279

Deen, Thomas B.
Planning for the Metro, TE3:Aug 70:349:7476
TR:136:1136

Deere, Don U.
Engineering Geologist's Responsibilities in Dam Foundation Studies, EFFD:Mar 74:417
Slope Stability in Residual Soils, with F. D. Patton, 4PCSM:71:I87
Dsc: Jacob Feld, 4PCSM:72:III125; Ralph B. Peck, 4PCSM:72:III126; Richard E. Gray and T. D. Donovan, 4PCSM:72:III127; Zenon Prusza, 4PCSM:72:III131; Robert B. Balter, 4PCSM:72:III131; Milton Vargas, 4PCSM:72:III135
Clo: 4PCSM:72:III144
See Reymond L. Nordlund, SM2:Mar 70:585:7172
See Raymond P. Benson, URC:72:407
See Edward J. Cording, URC:72:567

de Estrada, Michael
Test Method for Seismic Qualification of Equipment, PO1:July 74:97:10656

De Fazio, Frank G.
See C. Samuel Martin, HY6:Nov 69:2049:6911

DeFilippi, John A.
See Chia Shun Shih, SA2:Apr 70:409:7230

De Fries, Armin
See L. Agustin Mazzeo, ST6:June 72:1255:8937

De Fries, Christian K.
High Fills Resting on Residual Soils (in Spanish), with Edgar Pardo Stolk, 4PCSM:71:II153

DeGeare, Truett V.
Empirical Analysis of Commercial Solid Waste Generation, with Jerry E. Ongerth, SA6:Dec 71:843:8589
Dsc: Masaru Tanaka, SA4:Aug 72:675:9077
TR:138:112

DeGeer, Myron W.
Control of Natural Chloride, Arkansas-Red Rivers, with Robert J. Hensley, WW4:Nov 71:631:8494
TR:137:1012
See William C. Galegar, SA6:Dec 69:1097:6973

Degenkolb, Henry J.
Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, ST9:Sept 72:1913:9182
Dsc: Kalyan K. Sarkar, ST7:July 73:1667:9826
Clo: ST2:Feb 74:470:10306
TR:139:120

Degenkolb, John G.
ICBO-BOCA Fire Provisions, TB:73:Ib-8-733

Degler, Stanley E.
Dsc, CE:May 72:48, on Environmental Litigation: Lessons From the Courts, CE:Jan 72:55

de Godoy, Nelson S.
Dsc, 4PCSM:72:III100, of "The Standard Penetration Test", 4PCSM:71:I1

de Graft-Johnson, J. W.S.
Lateritic Gravel Evaluation For Road Construction, with Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
Dsc: Raymond J. Frost, SM9:Sept 73:723:9963
Clo: GT8:Aug 74:947:10695
TR:139:168

DeGroot, Glenn
Seepage Through Soil-Cement Facings, PES:72:I-751

Degyansky, Milan E.
See John D. Antrim, CEE:Feb 74:1-231

DeHaven, Thomas
Bikeways in National Capital Parks, BP73:Dec 73:547

Deigh, Joseph
Short-Cut Computation of Vertical Highway Curves, CE:Nov 69:68
Dsc: Hilton J. Brodie, CE:June 70:58

Deininger, Rolf A.
See Norbert A. Jaworski, SA3:June 70:727:7361

de Jong, Remy L.A.
Performance Of Nonhomogeneous Clay Core, TN: SM8:Aug 72:855:9085
Dsc, HY12:Dec 71:2113:8552, of "Eddy Formation Behind Circular Cylinders", HY6:June 71:763:8170

DeKeyser, William R.
Steel Pipe Design—Criteria For Oil, Water, Gas And Slurry Services, with Ralph C. Hughes, L. I. Elder and G. R. Wilson, CE:Mar 74:64
Dsc, TE4:Oct 70:656:7642, of "Research Needs in Air Transportation by the Committee on Research of the Aero Space Division", TE1:Feb 70:45:7091

Dela Barre, Wallace A.
See Arnold M. Cogan, TN: TE1:Feb 74:289:10311

de la Cruz, Catalino del Rosario
See Richard Silvester, WW2:May 70:201:7260

de la Cruz, Rodolfo V.
Stress Measurement by Retractable Cable Method, RM13:72:865

Delaney, John E.
Bactericidal Properties of Chlorsulfamates, with J. Carrell Morris, NSCD:71:61
Bactericidal Properties of Chlorsulfamates, with J. Carrell Morris, SA1:Feb 72:23:8718
TR:138:209

Delesques, R.
Factor of Safety of Connections, TB:73:II-19-890

De Leuw, Charles E.
Esthetics of Urban Transportation Facilities, TE1:Feb 69:23:6390
Dsc: David C. Colony, TE1:Feb 70:115:7048
Clo: TE3:Aug 70:434:7440
TR:136:4

Delfino, Joseph J.
See Patrick L. Brezonik, SA5:Oct 69:929:6850

Dellaway, T. Keith
See David R. Miller, TE1:Feb 74:179:10359

Delleur, Jacques W.
Fortran-Hydro, with Gerrit H. Toebes, HY6:Nov 69:1993:6901
Dsc: Michael K. Householder, HY5:May 70:1227:7248
Clo: HY4:Apr 71:580:8012
TR:136:299
See Ramachandra A. Rao, HY6:June 72:1082:8925
See Ramachandra A. Rao, HY7:July 72:1205:9024
See Ismail T. Kisisel, EM1:Feb 73:31:9535

Delmonte, Richard C.
Scale Effects of Wave Transmission Through Permeable Structures, CE13:72:III-1867

Delong, A. G.
Dsc, CE:June 73:24, on Friction Overlay Improves Runway Skid Resistance, CE:Mar 73:45

Del Rio, C. J.
See August J. Durelli, ST5:Oct 67:383:5524

Demars, Kenneth R.
See William E. Kelly, TN: GT3:Mar 74:383:10420

de Mello, Victor F. B.
The Standard Penetration Test, 4PCSM:71:I1
Dsc: Ralph B. Peck, 4PCSM:72:III59; Henry W. Janes, 4PCSM:72:III61; Francois A. Tavenas, 4PCSM:72:III64; Oreste Moretto, 4PCSM:72:III70; George E. Triandafilidis, 4PCSM:72:III76; Klaus-Jurgen Melzer, 4PCSM:72:III80; Jay Adam, 4PCSM:72:III82; E. P. Videla and J. R. Nadeo, 4PCSM:72:III85; James J. Schnabel, 4PCSM:72:III89; John H. Schmertmann, 4PCSM:72:III90; Guy C. Sanglerat, 4PCSM:72:III99; Nelson S. de Godoy, 4PCSM:72:III100
Clo: 4PCSM:72:III104

Demers, Jean-Guy
Montreal Boasts Cable-Stayed Bridge, with Ole Simonsen, CE:Aug 71:59
TR:137:525

Demetsky, Michael J.
Planning Major Activity Center Distributor Systems, with Lester A. Hoel, TE1:Feb 74:237:10319

De Michele, Eugene
Estimation of Estuarine Marsh Productivity, TN: EE3:June 73:397:9764
See Robert E. Cannon, EE6:Dec 74:1205:11012

Demuts, Edvins
See Morris Ojalvo, ST10:Oct 69:2305:6865

Dendy, Bill B.
See Virgil Whiteley, SA5:Oct 68:841:6149
See Gerald T. Orlob, HY4:Apr 73:573:9660

de Neufville, Richard
Airport Access Cost-Effectiveness Analysis, with Edward Mierzejewski, TE3:Aug 72:663:9141
  TR:138:428
The Identification of Transportation Demand, with Joseph H. Stafford, UTI:71:281
Optimal Highway Staging by Dynamic Programming, with Yasuo Mori, TE1:Feb 70:11:7080
  TR:136:1223
Research Needs for Airport Terminal Planning, TE4: Nov 73:863:10153
  TR:139:519
Systems Analysis of Water Distribution Networks, with John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
  Dsc: Vincent G. Terenzio, Martin Hauptman and LeRoy Ericson, SA5:Oct 72:789:9225; Lucien Duckstein and Chester C. Kisiel, SA5:Oct 72: 791:9225; Raphael Hurwitz, SA5:Oct 72:793: 9225; John H. Brindley, SA5:Oct 72:795:9225
  Clo: EE3:June 73:374:9758
  TR:139:47
Dsc, TE4:Nov 71:715:8486, of "Optimal Selection of Flexible Pavement Components", TE2:Feb 71:1: 7877
Dsc, TE2:May 74:529:10508, of "Investing in Regional Highway Networks", TE2:May 73:353: 9742
See Walter Gelerman, TE3:Aug 73:537:9951
See John F. Hoffmeister, III, WW3:Aug 73:293:9926

Dengo, Miguel P.
Dsc, CE:Aug 72:46, on Esthetics in Highway Design, CE:Apr 72:47

Dennis, Arnett S.
See Martin R. Schock, OIDS:72:373

Denson, Keith H.
Wave Force on a Platform with a Ribbed Bottom, with Melville S. Priest, CE13:72:III-1759

Denton, D. R.
Development of Response Spectra for a Thin Shell Structure, with Chung-Tung Shen and C. K. Webster, SDNPF:Dec 73:571

De Oliveira, Hamilton G.
Dsc, SM3:May 69:889:6525, of "Embankment Pore Pressures During Construction", SM2:Mar 68:527: 5867
See Lincoln de A. Queiroz, 4PCSM:71:II293

de Oliveira, J. Tiago
Dsc, ST4:Apr 70:856:7191, of "Safety Factors and Probability in Structural Design", ST7:July 69:1389: 6667

de Paiva, H A. Rawdon
See E. Ramzy F. Zaghlool, ST3:Mar 70:487:7147
See E. Ramzy F. Zaghlool, ST3:Mar 73:551:9616

De Pauw, George A.
Analysis of Friction Piles, CE:Oct 74:60
Dsc, Research in soils and foundations, CE:Aug 70: 56
  Errata: CE:Dec 70:61

De Pineres, Oscar G.
Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, SDNPF:Dec 73:375
Dsc, EM6:Dec 73:1304:10181, of "Elastic-Plastic Analysis by Quadratic Programming", EM6:Dec 72:1547:9435

Depman, A.
Tocks Island Project Spillway Rock Mechanics Studies, with K. Dodds and D. Parrillo, RM13:72: 443

Derenyi, Eugene E.
Photogrammetric Control Extension for Route Design, with Ahmed Maarek, SU1:May 74:49: 10528

Deresiewicz, H.
Stresses in Beams Having Holes of Arbitrary Shape, EM5:Oct 68:1183:6185
  Dsc: Patricio A. Laura, EM2:Apr 69:493:6484
  Clo: EM6:Dec 69:1439:6929
  TR:135:911

Derrick, Clarence Joseph
Dsc, CE:Dec 71:71, on Earthquake-Resistant Reinforced-Concrete Buildings, CE:Aug 71:32
Memoir of, TR:138:622

Derteano, Felipe U.
Basic Contemporary Urban Problems, UP2:Oct 70: 133:7608
  Dsc: Charles O. Quade, UP2:Dec 71:244:8558
  Clo: UP1:July 72:105:9005
  TR:137:674
Dsc, Prestressed concrete slabs, CE:Oct 70:44
Dsc, Society and technology, CE:May 72:54
Dsc, CE:May 69:66, on Bigger Bridge Loads Coming-Will We Be Ready, CE:Feb 69:52

de Rubertis, Kim
Book Review: Ecology and International Development, CE:Jan 73:27
In Defense of Dubos and Ellul, CE:Dec 72:51
  TR:138:534

de Ruiter, Jacobus
Electric Penetrometer For Site Investigations, SM2: Feb 71:457:7907
  Dsc: Guy C. Sanglerat, SM11:Nov 71:1601:8484
  TR:137:888

Desai, Chandrakant S.
Analysis of Circular Footings on Layered Soils, with Lymon C. Reese, SM4:July 70:1289:7408
  Dsc: Kalidas Banerjee, SM2:Feb 71:510:7866; Jean-Pierre Giroud, SM5:May 71:806:8083
  Clo: SM12:Dec 71:1709:8556
  TR:137:57
Analysis of Pile-Supported Gravity Lock, with Lawrence D. Johnson and Charles M. Hargett, GT9:Sept 74:1009:10789
Approximate Solution for Unconfined Seepage, IR1: Mar 73:71:9607
  Dsc: Boris S. Browzin, IR2:June 74:206:10568
  TR:139:231
Nonlinear Analysis Using Spline Functions, SM10: Oct 71:1461:8462
  Clo: SM9:Sept 72:967:9158
  TR:137:803
Numerical Design-Analysis for Piles in Sands, GT6: June 74:613:10617
Seepage Analysis of Earth Banks Under Drawdown, SM11:Nov 72:1143:9334
  TR:138:511
Unconfined Transient Seepage in Sloping Banks, with Walter C. Sherman, Jr., SM2:Feb 71:357:7915
  TR:137:297
Dsc, SM6:Nov 70:2153:7643, of "Method for Predicting Initial Settlement", SM2:Mar 70:523: 7167

Dsc, with D. M. Holloway, SM5:May 71:817:8083, of "Nonlinear Analysis of Stress and Strain in Soils", SM5:Sept 70:1629:7513
Dsc, SM2:Feb 72:238:8683, of "Stress Analysis of Contractive or Dilative Soil", SM7:July 71:981: 8263
See John F. Abel, TN: ST9:Sept 72:2143:9162

Desai, Mashesh D.
Dsc, SM5:May 73:410:9692, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV", SM7: July 72:749:9070

DeSalvo, Joseph M.
Book Review: Drilled Pier Foundations, CE:Mar 73: 40
International Abstracts Section, SM3:May 70:1091: 7294
International Abstracts Section, SM4:July 70:1505: 7428
International Abstracts Section, SM6:Nov 70:2197: 7665
International Abstracts Section, Committee on Information Retrieval, SA8:Aug 71:1145:8341
International Abstracts Selection, Committee on Information Retrieval, SM1:Jan 71:313:7848

DeSalvo, Joseph S.
On Acceleration of Barge Tows, WW2:May 69:121: 6545
  Dsc: John S. McNown, WW2:May 70:553:7252
  Clo: WW2:May 70:556:7252
  TR:135:39

Desaulniers, G.
Dsc, with Marcel Frenette, HY11:Nov 70:2380:7641, of "Bed Topography Effect on Flow in a Meander", HY1:Jan 70:57:7003

Desayi, Prakash
See K.T. Sundara Raja Iyengar, ST3:Mar 71:1003: 7944
See Kashi T. Sundara Raja Iyengar, ST5:May 74: 1150:10506

Deschapelles, Bernardo J.
Analytical Model for Lateral Load Effect on Buildings, ST6:June 70:1025:7328
  Dsc: D. Melville Porter, ST3:Mar 71:978:7944
  Clo: ST11:Nov 71:2753:8485
  TR:136:1302
Half Frame Method, TB:73:II-16-591
Methods of Analysis, TB:73:III-21-309
Three-Dimensional Analysis, TB:73:III-24-725
Dsc, ST10:Oct 72:2323:9227, of "Analysis of Three-Dimensional Structures", ST1:Jan 72:233:8643
Dsc, ST9:Sept 74:1956:10772, of "Elasto-Plastic Analysis of Coupled Shear Walls", ST8:Aug 73: 1743:9920

Deshmukh, Rajabhau S.
Numerical Solution of Moderately Thick Plates, with Robert R. Archer, EM5:Oct 74:903:10860

DeSimone, Salvatore V.
Distribution of Wind Loads to Soils, State-of-Art Report 2, TB:73:Ia-11-881
Performance of Two Mat Foundations on Boston Blue Clay, with James P. Gould, PES:72:I-953

Desimone, Vincent R.
Four-Day Week and Transportation, TE3:Aug 72: 705:9116
  Dsc: Jeffrey M. Zupan, TE2:May 73:427:9691; Fred P. Wagner, Jr., TE3:Aug 73:682:9896
  Clo: TE1:Feb 74:280:10307
  TR:139:51
Planning Criteria for Bikeways, TE3:Aug 73:609:9928
  Dsc: Gnanadesikam Ramanujam, TE2:May 74: 533:10508; Robert T. Milhous, TE3:Aug 74:787: 10698; Karl Briggs, TE4:Nov 74:1000:10901
  TR:139:393

DeSomer, Marc
Dsc, with Jean Berlamont, HY12:Dec 70:2638:7711, of "Survey of Programs for Water-Surface Profiles", HY2:Feb 70:547:7098

de Sousa, Stanley A.
Rehabilitation of an Old Concrete Dam, IMROD: Sept 74:493

Despeyroux, J.
Commentary on Structural Standards, Theme Report, TB:73:III-20-7

Dette, James T.
See Joseph A. Fischer, PES:72:I-997

Deutsch, George P.
Flow and Pressure of Granular Materials in Silos, with Douglas H. Clyde, EM6:Dec 67:103:5660
  Dsc: Peter Y.P. Chen, EM4:Aug 68:1000:6055
  Clo: EM3:June 69:790:6580
  TR:135:380

De Vries, A. H.
See C. B. Vreugdenhil, HY9:Sept 72:1723:9156

DeVries, Johannes J.
The Civil Engineer In Research, CE:Jan 73:92
Some Factors Affecting Control of Flow in a Large Canal System, with Jaime Amorocho, IR73:Aug 73: 329
See Jaime Amorocho, HY1:Jan 71:81:7791

DeWalle, Foppe B.
Removal of Organic Matter by Activated Carbon Columns, with Edward S.K. Chian, EE5:Oct 74: 1089:10867

Dewar, Edgar J.
Fixed Resin Bed Chlorination of Water, with Morris Wayman, NSCD:71:453
Fixed Resin Bed Chlorination of Water, with Morris Wayman, SA1:Feb 72:11:8703
  TR:138:172

Dewey, Haywood G., Jr.
Start-Up Performance, Hyatt-Thermalito Power Complex, with Robert W. Ehrhart and William H. Young, PO2:Nov 73:405:10169
  Dsc: Mohammad Hanif Chaudhry, PO2:Dec 74: 217:10976
  TR:139:536

DeWitt, Joseph W.
See Frank H. Posey, Jr., PO1:Jan 70:173:7041

DeWolf, John T.
Local and Overall Buckling of Cold-Formed Members, with Teoman B. Pekoz and George Winter, ST10:Oct 74:2017:10875

Dezfulian, Houshang
Response of Nonuniform Soil Deposits to Traveling Seismic Waves, with H. Bolton Seed, SM1:Jan 71: 27:7808
  TR:137:262
Seismic Response of Soil Deposits Underlain by Sloping Rock Boundaries, with H. Bolton Seed, SM6:Nov 70:1893:7659
  TR:136:1330
See H. Bolton Seed, SM8:Aug 72:787:9108

Dhabadgaonkar, S. M.
See S. D. Shangarpawar, SA6:Dec 71:948:8555

Dhalla, Asfandiar K.
Connections in Thin Low-ductility Steels, with Samuel J. Errera and George Winter, ST10:Oct 71: 2549:8442
  TR:137:817
Steel Ductility Measurements, with George Winter, ST2:Feb 74:427:10365
Suggested Steel Ductility Requirements, with George Winter, ST2:Feb 74:445:10366

Dhar, C. L.
See Subhash C. Anand, ST1:Jan 73:145:9513

Dhingra, S. L.
Dsc, TE2:May 72:461:8862, of "Estimation of Deep Freezing Indices", TE3:Aug 71:401:8276

Dhoopar, Bhushan Lal
See Bhupinder Pal Singh, ST5:May 74:1053:10544

Diamond, Sidney
See John F. McLaughlin, CE:Aug 69:42
See Asuri Sridharan, SM5:May 71:771:8151
See Syed Ahmed, GT4:Apr 74:407:10500

Diaper, Ernest W.J.
Dsc, SA4:Aug 69:782:6706, of "Filtration Through a Trimedia Filter", SA3:June 68:521:6014
Dsc, SA5:Oct 69:978:6802, of "New Approaches to Wastewater Treatment", SA6:Dec 68:1121:6296
Dsc, EE1:Feb 73:102:9521, of "Research Needs for Advanced Waste Treatment", SA3:June 72:515:8956

Diaz, Jesse M.
Vibration Analysis of Pump Discharge Lines, with Ravinder K. Jain, HY11:Nov 70:2279:7678
  TR:136:1286

Dibaj, Mostafa
Responses of Earth Dams to Traveling Seismic Waves, with Joseph Penzien, SM2:Mar 69:541:6453
  TR:136:691

Di Carlo, Antonio
See Raffaele Casaciario, EM5:Oct 71:1560:8406

Dick, Richard I.
Attitudes in Sludge Treatment and Disposal, EE5: Oct 74:1077:10844
Role of Activated Sludge Final Settling Tanks, SA2: Apr 70:423:7231
  Dsc: Kuan M. Yao, SA5:Oct 70:1289:7569; Alonzo W. Lawrence and Thomas R. Milnes, SA1:Feb 71:121:7865
  Clo: SA5:Oct 71:759:8409
  TR:136:1261
Dsc, SA2:Apr 70:638:7190, of "Low Temperature Activated Sludge Settling", SA4:Aug 69:747:6747
Dsc, SA2:Apr 70:1268:7569, of "Agglomerate Size Changes in Coagulation", SA3:June 69:481:6605
Dsc, SA4:Aug 70:1009:7441, of "Tube Clarification Process, Operating Experiences", SA5:Oct 69:829:6823
Dsc, with Ali R. Javaheri, SA2:Apr 71:234:8013, of "Unified Basis for Biological Treatment Design and Operation", SA3:June 70:757:7365
Dsc, SA2:Apr 71:238:8013, of "Estimation of Sludge Centrifuge Performance", SA.3:June 70:805:7378
Dsc, SA6:Dec 71:942:8555, of "Shearing Effects On Settling of Activated Sludge", SA1:Feb 71:59:7926
Dsc, EE3:June 74:770:10564, of "Generic Feed Forward Control of Activated Sludge", EE3:June 73:301:9803
Dsc, with John D. Ditmars, EE6:Dec 74:1286:10971, of "Optimal Control of Nitrogen Losses from Land Disposal Areas", EE6:Dec 73:923:10200
See Vernon L. Snoeyink, SA2:Apr 72:464:8800
See Byong S. Shin, SA5:Oct 72:799:9225
See George A. Farnworth, TN: SA5:Oct 72:812:9229

Dick, T. Milne
Dsc, WW3:Aug 69:430:6709, of "Characteristics of Open Tube Wave Attenuation System", WW4:Nov 68:465:6234

Dicke, D.
Effect of Foundation Rotation, TB:73:III-23-621

Dicker, Daniel
Aeroelastic Stability of Unstiffened Suspension Bridges, EM6:Dec 71:1677:8615
  Dsc: Robert H. Scanlan, EM3:June 72:752:8924
  Clo: EM6:Dec 72:1597:9390
  TR:137:1037
Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61
  Dsc: William F. Hoey, CE:Jan 72:62; Gerald K. Gillan, CE:Apr 72:62; John A. Bennett, CE:Apr 72:62; Daniel Dicker, CE:Oct 72:63; Carl H. Gronquist, CE:Jan 73:52
  Clo: CE:Apr 72:62
  TR:137:472
Dsc, ST11:Nov 69:2526:6867, of "Continuous Method of Suspension Bridge Analysis", ST12:Dec 68:2861:6280
Dsc, CE:Feb 70:65, on Severn River Suspension Bridge, CE:Aug 69:68
Dsc, CE:Oct 72:63, on Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61

Dicker, Milos M.
Dsc, EM5:Oct 69:1271:6800, of "Aerodynamic Instability of Suspension Bridges", EM2:Apr 68:489:5889

Dickey, Walter L.
Structural Design of Masonry Buildings, TB:73:III-27-1057

Dickie, James F.
Shallow Circular Vaults, with Peter Broughton, EM1: Feb 73:1:9520
  TR:139:190
Stability Criteria for Shallow Arches, with Peter Broughton, EM3:June 71:951:8217
  TR:137:1005
Dsc, with Peter Broughton, ST1:Jan 72:380:8623, of "Study of Suspended Roof Model", ST6:June 71:1671:8168
Dsc, with Peter Broughton, EM5:Oct 72:1308:9221, of "Nonlinear Buckling Analysis of Sandwich Arches", EM5:Oct 71:1397:8417
Dsc, ST12:Dec 73:2497:10185, of "Large Deflection Buckling of Space Frames", ST12:Dec 72:2701:9455

Dickin, Edward A.
See George J. W. King, SM5:Sept 70:1697:7516

Dickson, A. F.
Dsc, WW2:May 72:285:8863, of "Offshore Floating Terminals", WW3:Aug 71:531:8295

Dickson, James G.
Dsc, CO1:July 69:130:6640, of "Property Development in Modern Communitites", CO1:Jan 68:35:5741

Dienhart, Arthur V.
Barge-Coal Handling at A.S. King Generating Plant, with Norris R. Fitch, PO3:June 70:299:7322
  TR:136:500

Dietrich, Rudy J.
See H. Bolton Seed, IMROD:Sept 73:745

Dietz, Victor J.
See Ralph W. Blevins, MTI:May 72:347

Diewald, Walter J.
Incorporating Highway Safety into Level of Service, TE2:May 74:417:10557
See Arnim H. Meyburg, TE4:Nov 74:791:10914

Di Genova, Egidio O.
Memoir of, TR:138:626

DiGiano, Francis A.
Sorption Kinetics in Finite-Bath Systems, with Walter J. Weber, Jr., SA6:Dec 72:1021:9430
Dsc: Matthew M. Zuckerman and Alan H. Molof, EE1:Feb 74:220:10302
Clo: EE5:Oct 74:1185:10836
TR:139:507

Di Gioia, Anthony M., Jr.
Constructing Non-Polluting Coal Ash Disposal Sites, with Robert P. Hayden and James E. Niece, CE:Dec 74:64
Fly Ash as Structural Fill, with William L. Nuzzo, PO1:June 72:77:8980
TR:138:175
New ASCE Officers Installed in Kansas City: 1974, CE:Oct 74:92
See Dennis W. Weeter, EPCE:Aug 74:633

Dikkers, Robert D.
Masonry Structures, Summary Report, TB:73:III-27-1103
See Felix Y. Yokel, ST5:May 71:1593:8143

Dilger, Walter H.
See Vadaporty Jagannadha Rao, ST10:Oct 74:2109:10850

DiMaggio, Frank L.
Material Model for Granular Soils, with Ivan S. Sandler, EM3:June 71:935:8212
TR:137:278
See Bedros Bedrosian, EM3:June 72:731:8998

Dimock, R. R., Jr.
See Y. S. Kim, RM13:72:201

Dimopoulos S.A., A. Albertis-TH.
Athens Tower, TB:73:C-P-502

Dinakaran, M.
See K. K. Ghosh, TE1:Feb 70:87:7108

Dinkar, P. J.
See T. R. Chandrasekhara, IR:Sept 68:362:6088
See T. R. Chandrasekhara, HY3:May 69:1064:6524

Dinoy, Antonio A.
See Anat Arbhabhirama, HY6:June 73:901:9784

DiPrima, Susan
See Werner N. Grune, CEO-II:70:1187

Dirlam, Kent
Dsc, CE:June 69:46, on ASCE Responsibility for the Economic Welfare of its Members, CE:Apr 69:35

DiSilvio, Giampaolo
Flood Wave Modification Along Prismatic Channels, HY5:Sept 69:1589:6777
TR:135:1050
Self-Controlled Vibration of a Cylinder in a Fluid Stream, EM2:Apr 69:347:6498
Dsc: Agostino Zanardo, EM6:Dec 69:1445:6929
Errata: EM6:Dec 69:1445:6929
Clo: EM4:Aug 70:498:7438
TR:135:1063

Diskin, Mordechai H.
Evaluation of Segmented IUH From Derivatives, HY1:Jan 69:329:6359
TR:135:166
Piling-Up Behind Low and Submerged Permeable Breakwaters, with Michael L. Vajda and Illan Amir, WW2:May 70:359:7283
Dsc: Michael R. Gourlay, WW1:Feb 71:219:7868; Robert A. Dalrymple and Robert G. Dean, WW2:May 71:423:8086
Clo: WW1:Feb 72:74:8686
TR:137:59
Dsc, HY3:May 69:1090:6524, of "Synthesizing Daily Discharge From Rainfall Records", HY5:Sept 68:1283:6119
Dsc, IR2:June 71:334:8156, of "Friction Factors for Corrugated Plastic Tubing", IR3:Sept 70:265:7531

Disko, Michael D.
Mathematical Model of Mixing in New Haven Harbor, with Robert A. Norris and Francis C. Lutz, 12CEC:71:1847

Dismuke, T. D.
Excavations and Deep Foundations, TB:73:Ia-11-1014

Di Sorbo, Joseph
ASCE -- Its Role, Function and Activities on the Urban Campus, CEWAU:74:270

Disque, Robert O.
Engineering Education Needs for the Structural Steel Industry, CEE:Feb 74:1-380
Mass Produced Steel Systems, State-of-Art Report 4, TB:73:Ia-3-477

Distefano, Nestor
Solution of Elastic Plates by Invariant Imbedding, with Jaime Schujman, EM5:Oct 71:1349:8424
TR:137:1034

Ditmars, John D.
See John S. Fisher, CE13:72:III-2297
See Richard I. Dick, EE6:Dec 74:1286:10971

Di Toro, Dominic M.
Maximum Entropy Mixing in Estuaries, TE4:July 69:1247:6885
TR:136:981
See Donald J. O'Connor, SA2:Apr 70:547:7240
See James A. Mueller, EE3:June 73:269:9792
See Robert V. Thomann, EE3:June 74:699:10576

Dittmer, Russell S.
Land Acquistion Surveys and Maps for Reservoirs, SU2:Nov 71:215:8500
TR:137:1017

Divney, J. Michael
Urban Renewal in White Plains, N.Y., CE:Sept 69:69
TR:135:909

Divoky, David
See Li-San Hwang, 12CEC:71:377
See Li-San Hwang, HY2:Feb 71:353:7863
See Li-San Hwang, WW2:May 71:412:8086

Dixie, John M.
Bidding Models—The Final Resolution of a Controversy, CO3:Sept 74:265:10790

Dixit, J. G.
See Zal S. Tarapore, HY2:Feb 72:391:8681

Dixon, Neal P.
Graphic Dissolved Oxygen Computation, CE:Mar 71:60
Dsc: Santosh R. Goswami, CE:Sept 71:67; Correction, Eugene T. Taggart, CE:June 71:40
Errata: CE:Sept 71:67
TR:137:233

Dixon, Robert M.
See Charles B. England, HY9:Sept 73:1630:9961

Dixon, Schaefer J.
Development and Implementation of Salary Guidelines, with Richard G. Tait, PP3:July 73:393:9887
TR:139:435
Engineers Salaries: What California Is Doing, with L. Lawrence Lewis, CE:June 70:56
Dsc: Engineering Salaries in New York, Thomas Cheswick, CE:Jan 71:45
TR:136:454
Liquefaction Case History, with Jack W. Burke, SM11:Nov 73:921:10133
TR:139:478

Dobbins, William E.
See David A. Bella, SA5:Oct 68:995:6192

Dobbs, Elwood D.
Salary Evaluation for Young Professionals, PP4:Oct 73:421:10083
TR:139:489

Dobbs, Michael W.
Optimization of Truss Geometry, with Lewis P. Felton, ST10:Oct 69:2105:6797
TR:136:236

Doble, Dale H.
Maintenance and Repairs of Ancillary Equipment, IMROD:Sept 73:451

Dobry, Ricardo
Dynamic Cone and Standard Penetration Test in Silty Sands (In Spanish), 4PCSM:71:III
Seismic Failures of Chilean Tailings Dams, with Leonardo Alvarez, SM6:Nov 67:237:5582
Dsc: Thomas M. Leps, SM3:May 68:809:5922; Jose A.J. Salas, SM1:Jan 69:367:6324
Clo: SM6:Nov 69:1521:6894
TR:135:477
Dsc, with Mauricio Poblete, SM2:Mar 69:659:6429, of "Vibration Modulus of Normally Consolidated Clay", SM2:Mar 68:353:5833
Dsc, EM5:Oct 71:1577:8406, of "Steady-State Response of Yielding Shear Structure", EM6:Dec 70:1209:7774
See H. Bolton Seed, SM8:Aug 72:787:9108
See Jose M. Roesset, ST3:Mar 73:399:9603

Dockey, James M.
The Civil Engineer as a Sales Engineer, CE:Feb 71:78
Dsc: John E. Stickney, CE:May 71:78
Dsc, The Civil Engineer as a Sales Engineer, CE:Feb 71:78

Dodd, Jerry S.
Tectonic Stresses and Rock Slope Stability, with H. Walter Anderson, RM13:72:171
See Gilbert L. Brown, SM1:Jan 71:119:7820

Dodds, K.
See A. Depman, RM13:72:443

Dodds, R. Kenneth
See Paul Meidal, URC:72:203

Dodge, Burnham H.
Federal View of Interagency River Basin Planning, WW3:Aug 68:305:6067
Dsc: Roy F. Bessey, WW2:May 69:223:6528
Clo: WW1:Feb 70:149:7049
TR:135:820

Dodge, Eldon R.
Estimation Floods Small Drainage Areas in Montana, HYB:Aug 73:395

Dodge, James C.I.
Dsc, with Brian J. Garvey, HY9:Sept 70:1888:7497, of "Data Error Effects in Unit Hydrograph Derivation", HY6:Nov 69:1899:6887
Dsc, HY10:Oct 70:2139:7568, of "Manning Formula-A Misnomer", HY1:Jan 70:193:7036

Dodge, Robert O.
Design of Columbia River Pile Dikes, WW2:May 71:323:8142
Dsc: Sol M. Gleser, WW1:Feb 72:126:8686
Clo: WW4:Nov 72:9310
TR:137:747

Dodson, Ernest L.
Evaluating Foundation Seepage Problems, IMROD:Sept 73:609

Dodson, Roy E.
Cleanup of San Diego Bay, CE:Mar 72:62
TR:138:142
Transportation of Demineralized Water, PL1:Oct 68:127:6191
TR:135:290

Doering, Eugene J.
Pumping an Artesian Source for Water Table Control, with Leo C. Benz, IR2:June 72:275:8964
TR:138:344
See Leo C. Benz, IR73:Aug 73:225

Doering, Robert D.
Defining the Slip Resistance of Surfaces Used for Pedestrian Traffic, BP73:Dec 73:261

Doheny, Edward J.
Density Of Adsorbed Water At Plastic Limit, with A. Alexander Fungaroli, TN: SM5:May 72:523:8865

Dokainish, Mohammed Ali
Transverse Beam Vibration Nonlinear Constraint, with Rajnish Kumar, EM6:Dec 72:1381:9431
TR:138:556
See James N. Siddall, ST6:June 73:1043:9772

Dolan, Charles W.
See Robert F. Mast, CE:Mar 72:48

Dolan, Robert
See Bruce Hayden, WW2:May 74:123:10538

Dolcetta, Morando
Problems with Large Underground Stations in Italy, URC:72:243

Dolch, W. L.
See John F. McLaughlin, CE:Aug 69:42

Dolezal, Frantisek
Dsc, with Jaromir Cisler, IR1:Mar 69:223:6428, of "Infiltration Equation in Exponential Forms", IR4:Dec 67:125:5686

Domanov, V. N.
See I. K. Nikitin, ISSF:Aug 72:635

Domaschuk, Leonard
A Study of Bulk and Shear Moduli of a Sand, with Neil H. Wade, SM2:Mar 69:561:6461
Dsc: Chiyyarath V. Girijavallabhan, SM1:Jan 70:350:6989; Robin N. Chowdhury, SM1:Jan 70:351:6989
Clo: SM2:Feb 71:475:7866
TR:136:64

Domer, Ronald G.
Dynamic Behavior of Steel Chimney Liners, EPCE:Aug 74:97

Dominguez, Richard F.
Dynamic Analysis of Cable Systems, with Charles E. Smith, ST8:Aug 72:1817:9127
Dsc: G. J. O'Hara and Richard A. Skop, ST3:Mar 73:590:9583
TR:138:388
Dsc, WW1:Feb 72:118:8686, of "Two-Point Mooring System for Spar Buoy", WW2:May 71:295:8115

Dominy, Floyd E.
Role of Irrigation in the West's Expanding Economy, IR4:Dec 68:401:6281
Dsc: L. E. Cramer, IR4:Dec 69:607:6930; John P. Buehler, IR4:Dec 69:609:6930; Mel A. Hagood, IR4:Dec 69:610:6930; Joel B. Justin, IR4:Dec 69:610:6930; William E. Martin, Robert A. Young, Maurice M. Kelso and Jimmye S. Hillman, IR4:Dec 69:611:6930; Calvin V. Davis, IR4:Dec 69:616:6930; Alfred R. Golze, IR4:Dec 69:617:6930; George D. Clyde, IR4:Dec 69:620:6930; Eugene B. Waggoner, IR4:Dec 69:621:6930; Leo R. Gray, IR2:June 70:223:7311
TR:136:579

Donachie, Roger P.
Digital Program for Water Network Analysis, HY3:Mar 74:393:10424
Errata: HY11:Nov 74:1729:10898
Dsc, HY12:Dec 72:2244:9391, of "Computer Analysis of Water Distribution Systems: Part II--Numerical Solution", HY3:Mar 72:447:8782

Donath, Fred A.
Experimental Study of Frictional Properties of Faults, with L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Faulting Across Discontinuities in Anisotropic Rock, RM13:72:753

Dondanville, Laurence A.
Designing Arterial Streets for Safety, TE1:Feb 71:43:7885
TR:137:877

Doneen, L. D.
See Kenneth K. Tanji, IR1:Mar 69:171:6473

Dong, Stanley B.
See Antone F. Sayegh, EM4:Aug 70:471:7495

Dong, Yen H.
World's Largest Log-Periodic Antenna, ST9:Sept 71:2371:8400
TR:137:809

Donovan, T. D.
See Richard E. Gray, 4PCSM:72:III127

Donovan, Thomas K.
See Vincent P. Olivieri, NSCD:71:365
See Vincent P. Olivieri, SA5:Oct 71:661:8419

Doolan, T. F.
See Somasundaram Valliappan, ST4:Apr 72:885:8845

Dorcey, Anthony H.J.
Critique of Water Pollution Control Act, with Irving K. Fox, EE1:Feb 74:141:10326
Dsc: William Whipple, Jr., EE5:Oct 74:1192:10836

Dornhelm, Richard B.
Velocity and Temperature in Buoyant Jet, with Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
TR:138:148
See Ronald M. Noble, WAVES:Sept 74:856

Dorrer, Egon
Dsc, SU2:Sept 68:292:6091, of "Control for Antarctic Ice Cap Reconnaissance", SU1:Jan 68:1:5716

Dorsey, Lynn D.
Marketing Professional Engineering Services, CE:Oct 73:99

Dotreppe, Jean-Claude
See Giulio Maier, TN: EM4:Aug 73:897:9898

Dotson, James L.
Dsc, CE:Jan 71:71, on A Hard Look at Civil Engineering Salaries, CE:May 70:33

Doty, Coy W.
Pump Drainage in Carolina Bays, IR4:Dec 73:465:10244
TR:139:549

Dougherty, Murray T.
See Alfred C. Ackenheil, SM1:Jan 70:251:7042

Dougherty, Nina D.
The Bicycle as It Relates to the Energy Crisis, BP73:Dec 73:331

Doughty, S. Clifford
Dsc, GT11:Nov 74:1256:10897, of "Aguada Blanca Rockfill Dam with Metal Facing", GT1:Jan 74:31:10270

Douglas, Arthur G.
See Orlando B. Andersland, SM3:May 70:1073:7249

Douglas, Gabrielle
Strain Energy Build-Up in Fatigue Cycling, with David J. McDougall, RM14:73:121
"TL" A New Approach to Stress Distribution in Rocks, RM13:72:717

Douglas, James
Optimum Life of Equipment for Maximum Profit, CO1:Jan 68:41:5745
Dsc: Robert M. Stark and Robert H. Mayer, Jr., CO1:July 69:131:6640
Clo: CO1:June 70:79:7308
TR:135:1044
Dsc, CO1:July 69:134:6640, of "Optimizing Haul Fleet Size Using Queueing Theory", CO1:Jan 68:75:5753
Dsc, with John W. Fondahl, Clarkson H. Oglesby and Henry W. Parker, CO1:July 69:142:6640, of "Outline of Research Requirements for Construction", CO2:Oct 68:233:6189

Douglas, Terry R.
Design of Beams With Off-Center Web Openings, with Samuel C. Gambrell, Jr., ST6:June 74:1189:10611
Theoretical Analysis of Curved Girder Bridges, with Samuel C. Gambrell, Jr., EM5:Oct 74:991:10871

Douglas, Walter S.
Design of Seismic Joint for San Francisco Bay Tunnel, with Robert Warshaw, ST4:Apr 71:1129:8040
TR:137:419
Role of Specifications in Foundation Construction, TN: CO2:June 74:198:10570

Douglas, William J.
Silver Iodide Generators and Public Health, IR3:Sept 70:273:7535
TR:136:1161

Douglass, Matthew McC.
See Benjamin E. Lazar, ST8:Aug 72:1725:9122

Douty, Richard T.
Interactive Graphics In Civil Engineering Design, with Sidney Shore, EC5:70:439
Optimization of Long-Span Cold-Formed Truss Purlins, with James O. Crooker, ST11:Nov 74:2275:10952
Technique for Interactive Computer Graphics in Design, with Sidney Shore, ST1:Jan 71:273:7837
Errata: ST4:Apr 72:934:8802
TR:137:495

Dovel, W. L.
See David A. Flemer, SA4:Aug 68:683:6081

Dowding, Charles H.
Embankment Instrumentation Tunnel Performance, with T. William Lambe and L. Anthony Wolfskill, TN: GT5:May 74:567:10510

Dowling, George B.
See John B. Ciani, SU2:Nov 71:149:8496

Downey, Jack D.
Why Regional Airports, ASC73:Mar 73:153

Downey, Lloyd A.
Water-Yield Relations for Nonforage Crops, IR1:Mar 72:107:8772
TR:138:157

Downs, Dallas I.
Design of Fish Conserving Intake System, with Kenneth R. Meddock, PO2:Dec 74:191:11008

Downs, Stephen C.
Dsc, CE:Feb 72:46, on Civil Engineering Education for the 1970's, CE:Aug 71:70

Dowsley, B. P.
Tie-Downs and Inclined Legs Lead to Slender Graceful Overpass, with W. W. Irwin, CE:July 69:64
TR:135:176

Doyle, James M.
Plastic Design of Flexible Conduits, with Shih-Lung Chu, ST8:Aug 68:1935:6070
Dsc: Anatol A. Eremin, ST4:Apr 69:779:6486
TR:135:652
See Max Zar, PO2:Oct 72:323:9256

Doyle, M. J., Jr.
Thermal Power Plant Environmental Studies, with Ramon F. Cayot, CE13:72:III-2075

Doyle, William S.
Explicit Triangular Bending Element Matrix, with Robert L. Harrison, ST7:July 74:1459:10680

Drablos, Carroll J.W.
Liaison-Key to Highway and Agricultural Drainage Programs, with Benjamin A. Jones, Jr., IR1:Mar 69:185:6479
TR:135:98

Dracos, Themistocles A.
Stability Criteria for Open-Channel Flow, with Bard Glenne, HY6:Nov 67:79:5566
Errata: HY8:Aug 70:1713:7439
TR:136:8

Dragoun, Frank J.
See James A. Robertson, Jr., IR73:Aug 73:179

Drake, Elizabeth A.
The Tempe Bikeway Study, BP73:Dec 73:297

Drake, Joseph S.
Issues in Statewide Transportation Planning, with Lester A. Hoel, TE3:Aug 70:379:7480
TR:136:1072

Drapeau, Georges
Natural Cleaning of Oil Polluted Seashores, CE13:72:III-2547

Draper, Laurence
The Canadian Wave Climate Study - the Formative Year, 12CEC:71:1
Extreme Wave Conditions in British and Adjacent Waters, CE13:72:I-157

Drenick, Rudolf F.
Aseismic Design by Way of Critical Excitation, EM4:Aug 73:649:9950
TR:139:425
Model-free Design of Aseismic Structures, EM4:Aug 70:483:7496
Errata: EM3:June 71:1023:8154
TR:136:1046

Dressler, Joachim
Stochastic Scheduling of Linear Construction Sites, CO4:Dec 74:571:11024

Drew, Donald R.
Capacity-Feedback Relationship for Port of Bangkok, with Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131
TR:138:441

Drew, Freeman P.
Recorded Stress Histories in Railroad Bridges, ST12:Dec 68:2713:6288
TR:136:776

Drewry, William A.
Dsc, CE:Sept 73:29, on Muskegon Sprays Sewage Effluents on Land, CE:May 73:49

Dreyfus, Daniel A.
Competing Values in Water Development, HY9:Sept 73:1599:10025
TR:139:395
Needed: A National Land Use Policy, CE:May 72:52
Dsc: William S. Barrett, CE:Aug 72:64
TR:138:245

Driels, Morris
Valve Stroking in Separated Pipe Flow, HY11:Nov 74:1549:10940

Driscoll, George C., Jr.
Plastic Analysis and Design, Summary Report, TB:73:II-15-399
Plastic Design for Buildings, CE:Apr 69:56
TR:135:350
Plastic Design of Multistory Frames by Computer, with James O. Armacost, III and William C. Hansell, ST1:Jan 70:17:6995
Dsc: John Springfield and Peter F. Adams, ST11:Nov 70:2528:7644
Clo: ST6:June 71:1801:8159
TR:136:509
See E. Ozer, TB:73:C-AC14-93

Drissel, John C.
See Kenneth G. Renard, HY3:Mar 70:773:7161

Drnevich, Vincent P.
Dynamic Prestraining of Dry Sand, with Frank E. Richart, Jr., SM2:Mar 70:453:7160
TR:136:592
An Innovative A.S.C.E Student Chapter Structure, CEE:Feb 74:1-988
Undrained Cyclic Shear of Saturated Sand, SM8:Aug 72:807:9134
TR:138:431
See Bobby O. Hardin, SM6:June 72:603:8977
See Bobby O. Hardin, SM7:July 72:667:9006

Drobnack, Edward J.
Owner's Comments, IMROD:Sept 73:523
Underwater Inspection by Submarine, IMROD:Sept 73:459

Drobny, Neil L.
See Robert F. Testin, SA3:June 70:699:7345
See Syed R. Qasim, EE5:Oct 73:717:10098

Dronkers, J. J.
Research for the Coastal Area of the Delta Region of the Netherlands, 12CEC:71:1783
The Schematization for Tidal Computations in Case of Variable Bottom Shape, CE13:72:III-2369
Tidal Computations for Rivers, Coastal Areas and Seas, HY1:Jan 69:29:6341
Errata: HY2:Feb 71:335:7863
TR:136:18
Dsc, HY4:July 68:1134:6015, of "Tidal Velocities Across A Partly-Completed Barrage", HY5:Oct 67:85:5427

Drucker, Daniel C.
See Wai F. Chen, EM4:Aug 69:955:6742
See Giulio Maier, EM4:Aug 73:819:9914

Druffel, Lee A.
See Verne R. Schneider, HY5:May 74:705:10505

Drynan, W. Ronald
See Bruce E. Jank, EE3:June 73:187:9769

Drysdale, Robert G.
Sustained Biaxial Load on Slender Concrete Columns, with Mark W. Huggins, ST5:May 71:1423:8103
  Dsc: Jostein Hellesland, ST2:Feb 72:511:8684
  Errata: ST1:Jan 72:368:8623
  TR:137:909

Duane, David B.
Synoptic Observations of Sand Movement, 12CEC:71:799
See H. R. Brashear, 12CEC:71:821

Dubas, Pierre
Interaction of Structural Elements with Cladding, State-of-Art Report 5, TB:73:II-17-675

Dubey, R. N.
See Pierre F. Lemieux, EM6:Dec 70:1031:7731

Dubin, Fred S.
Dsc, Centennial Suggestion, CE:Oct 74:28

Dubois, Jacques
See Richard E. Goodman, SM4:Apr 72:399:8853

Dubouchet, Jacques L.
See Edmond E. Chapus, HY8:Aug 73:1270:9895

Duckstein, Lucien
Dsc, with Chester C. Kisiel, SA6:Dec 71:939:8555, of "Water Reuse Systems Analysis", SA1:Feb 71:41:7898
Dsc, with Chester C. Kisiel, SA5:Oct 72:791:9225, of "Systems Analysis of Water Distribution Networks", SA6:Dec 71:825:8575
Dsc, with Chester C. Kisiel, HY12:Dec 72:2241:9391, of "Two-Distribution Method for Flood Frequency Analysis", HY1:Jan 72:29:8639
See Chester C. Kisiel, HY10:Oct 71:1699:8455
See Stephen C. Ko, SA6:Dec 72:869:9434
See Michael L. Popovich, EE5:Oct 73:577:10104
See Kanchit Chaemsaithong, HY3:Mar 74:461:10430

Dudley, Eugene F.
Environmental Aspects of Site Selection, PO1:June 72:21:8971
  TR:138:120

Dudley, John H.
Remote Measurement of Radial Deformations, TN: SM6:June 71:965:8162
Review of Collapsing Soils, SM3:May 70:925:7278
  Dsc: Aris C. Stamatopoulos and Panaghiotis C. Kotzias, SM1:Jan 71:262:7785; Hassan A. Sultan, SM1:Jan 71:267:7785; Sachinder N. Gupta, SM2:Feb 71:497:7866; John F. Capps, SM3:Mar 71:586:7943
  Clo: SM10:Oct 71:1487:8410
  TR:136:1305

Dueker, Kenneth J.
See Colby V. Ardis, HY1:Jan 69:383:6365

Duff, Harvey W.
Dsc, with George C.C. Hsieh, HY7:July 70:1629:7384, of "Urban Runoff by Road Research Laboratory Method", HY6:Nov 69:1809:6878
Dsc, with George C.C. Hsieh, SA4:Aug 70:1012:7441, of "Frequency Analysis of Rainfall Intensities for Calcutta", SA6:Dec 69:1013:6950
Dsc, with George C. C. Hsieh, UP2:Oct 70:167:7571, of "Planning Standards for Storm Drainage", UP1:Mar 70:53:7133

Duffey, Harry J.
Fatigue Characteristics of Selected Plastics, ST7:July 70:1567:7429
  TR:137:840

Dugan, Gordon L.
Effects of Coastal Water Disposal in Hawaii, with Reginald H.F. Young, EE5:Oct 73:691:10046
  TR:139:352
Water Quality and Effluent Standards of Hawaii, with Reginald H.F. Young and L. Stephen Lau, HY9:Sept 74:1245:10824

Dugan, John P., Jr.
See Thomas K. Liu, PES:72:I-1323

Duke, C. Martin
Economic and Social Aspects, State-of-Art Report 6, with Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255

Duke, Harold R.
See Nikolas F. White, IR2:June 70:165:7376

Duke, James H., Jr.
See Daryl B. Simons, WW2:May 73:231:9731

Dukleth, Gordon W.
Administration of Dam Safety in California in 1973, IMROD:Sept 73:127
Dsc, HY11:Nov 73:2158:10109, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Dumm, Lee D.
Subsurface Drainage by Transient-Flow Theory, IR4: Dec 68:505:6315
  Errata: IR4:Dec 69:638:6930
  TR:135:931
Dsc, IR4:Dec 67:154:5621, of "Falling Water Table Between Tile Drains", IR2:June 67:9:5258

Duncan, James M.
Earth Pressures on Structures Due to Fault Movement, with Guy Lefebvre, SM12:Dec 73:1153:10237
  TR:139:532
Failure of Underwater Slope in San Francisco Bay, with Albert L. Buchignani, SM9:Sept 73:687:10019
  TR:139:406
Finite Element Analyses of Port Allen Lock, with Gerald W. Clough, SM8:Aug 71:1053:8317
  TR:137:999
Nonlinear Analysis of Stress and Strain in Soils, with Chin-Yung Chang, SM5:Sept 70:1629:7513
  Dsc: Arnoldo J.L. Bolognesi, SM4:Apr 71:702:8014; Steven I. Majtenyi, SM5:May 71:815:8083; Chandrakant S. Desai and D. M. Holloway, SM5:May 71:817:8083; Behzad Rohani and N. Radhakrishnan, SM7:July 71:1037:8224
  Errata: SM11:Nov 71:1597:8484
  Clo: SM5:May 72:495:8860
  TR:137:476
The Significance of Cap and Base Restraint, with Peter Dunlop, SM1:Jan 68:271:5768
  Dsc: Sidney F. Hillis and Nigel A. Skermer, SM1:Jan 69:436:6324
  Clo: SM5:Sept 69:1275:6754
  TR:135:699
Slopes in Stiff-Fissured Clays and Shales, with Peter Dunlop, SM2:Mar 69:467:6449
  Dsc: Robin N. Chowdhury, SM1:Jan 70:336:6988; Rowland Richards, Jr., SM1:Jan 70:338:6989; Donald F. Coates, SM1:Jan 70:340:6989
  Errata: SM4:Apr 71:681:8014
  Clo: SM5:Sept 70:1795:7499
  TR:135:969
Use of the Finite Element Method in Analysis of Soil-Structure Interaction, PES:73:III-265
See Peter Dunlop, SM2:Mar 70:471:7162
See Chin-Yung Chang, SM5:Sept 70:1655:7512
See Gerald W. Clough, SM12:Dec 71:1657:8583
See Esmail S. Nobari, PES:72:I-797

See Gerald W. Clough, PES:72:I-1467
See Fred H. Kulhawy, SM7:July 72:653:9016
See Stephen G. Wright, SM9:Sept 72:869:9210
See Guy Lefebvre, SM7:July 73:495:9857
See Poul V. Lade, SM10:Oct 73:793:10057

Dundas, Robert M.
See Harold K. Pratt, SM10:Oct 72:1053:9290

Dundurs, John
Contact Between Plates and Sagged Supports, with Kraiwood Kiattikomol and Leon M. Keer, EM2: Apr 74:445:10485
See Rene Amon, EM3:June 68:731:5971
See Kraiwood Kiattikomol, EM2:Apr 74:433:10486

Dunford, Fraser
Basis for Simulation Model of Container Terminal, TE3:Aug 72:607:9099
TR:138:299

Dunham, James W.
Avalon Transportation Wharf, WW2:May 71:371: 8104
Clo: WW4:Nov 72:9310
TR:137:754
Plastic Filter Cloth used for Stone Seawalls, with Robert J. Barrett, CE:Mar 74:70
Proposed Santa Monica Causeway Project, WW4: Nov 68:425:6219
Clo: WW2:May 70:550:7252
TR:135:191
Woven Plastic Cloth Filters for Stone Seawalls, with Robert J. Barrett, WW1:Feb 74:13:10325

Dunlap, James A.
Nuclear Power Plant Tornado Design Considerations, with Karl Wiedner, PO2:Mar 71:407:7949
Dsc: Melvin W. Jackson, PO4:Dec 71:879:8554

Dunlap, Wayne A.
Foundation Conditions, with Louis J. Thompson, PITO:74:29

Dunlop, Peter
Development of Failure Around Excavated Slopes, with James M. Duncan, SM2:Mar 70:471:7162
Dsc: Kenji Ishihara, SM6:Nov 70:2152:7643
Clo: SM6:June 71:926:8158
TR:136:608
See James M. Duncan, SM1:Jan 68:271:5768
See James M. Duncan, SM2:Mar 69:467:6449

Dunn, A. Kenneth
Experience and Problems with Dams in Idaho, IMROD:Sept 73:100

Dunn, Phillip F., Jr.
Public Participation in Environmental Design of Flood Control Channels, PP3:July 72:363:9051
TR:138:432

Dunn, William E.
Dsc, CE:Apr 70:49, on Black People Call for ASCE Social Action, CE:Dec 69:73

Dunnicliff, C. John
Equipment for Field Deformation Measurements, 4PCSM:71:II319
Dsc, EFSE:Aug 74:370, of "Benefits of Tunnel Measurements", EFSE:Aug 74:366
See James P. Gould, 4PCSM:71:I313

du Plessis, Johannes Gideon
Dam Safety Laws and Dam Safety Inspections in South Africa, IMROD:Sept 73:241

duPlessis, M. P.
Settling Parameter in Solids Pipelining, with R. W. Ansley, PL2:July 67:1:5340
Dsc: David I. H. Barr and John F. Riddell, PL1: Oct 68:175:6133
Clo: TE4:Nov 70:653:7642
TR:136:59

Durelli, August J.
Gravity and Surface-Load Stresses in Spheres, with Vincent J. Parks and Luis Ferrer, EM4:Aug 70:407: 7481
TR:136:1010
Photoelastic Study of Beams on Elastic Foundations, with Vincent J. Parks, Carson K.C. Mok and Han-Chow Lee, ST8:Aug 69:1713:6739
Dsc: Munther J. Haddadin, ST4:Apr 70:864:7191; Ganpat S. Pandit, ST4:Apr 70:870:7191
Clo: ST10:Oct 70:2233:7570
TR:136:110
Stresses and Strains in Reinforced Concrete, with Vincent J. Parks and Fu-pen Chiang, ST5:May 69: 871:6552
TR:135:207
Stresses in a Pressurized Cylinder With a Hole, with C. J. Del Rio, Vincent J. Parks and H. Feng, ST5: Oct 67:383:5524
Dsc: Robert Mark and Jorge D. Riera, ST4:Apr 68:1075:5877; Niels C. Lind, ST6:June 68:1647: 5966
Clo: ST11:Nov 69:2507:6867
TR:135:378

Durfee, Charles D.
TVA Experience with Concrete Chimney Linings, PO2:Oct 69:193:6826
TR:136:60

Durgunoglu, H. Turan
Dsc, with Semih S. Tezcan, GT12:Dec 74:1303: 10973, of "Vibratory In Situ and Laboratory Soil Moduli Compared", SM12:Dec 73:1055:10219

Durham, Donald L.
See Robert W. Whalin, WAVES:Sept 74:466

Durkee, Jackson L.
Railway Box-Girder Bridge Erected by Launching, ST7:July 72:1443:9028
Errata: ST5:May 73:959:9693
TR:138:342

Duru, J. Obiukwu
See Robert M. Ragan, HY10:Oct 72:1765:9275

Durvasula, Somayajulu
Buckling of Simply Supported Skew Plates, EM3: June 71:967:8218
TR:137:1009
Dsc, with Kaja Vijayakumar, EM1:Feb 72:262:8680, of "Buckling and Vibrations of Polygonal and Rhombic Plates", EM2:Apr 71:305:8030
See Mudlapur S. Suryanarayana Prabhu, TN: EM6: Dec 74:1292:10979

Durward, Robin
See Doug McKay, CE:Oct 74:74

Dutt, Om
Uniqueness Theorem for Nonlinear Plane Frames, with Niels C. Lind, ST6:June 70:1061:7330
TR:136:1306

Duttweiler, David M.
Lagoons for Military Sewage Treatment in South Vietnam, with John A. Burgh, CE:May 69:47
TR:135:276

DuVal, Miles P., Jr.
Dsc, WW4:Nov 70:869:7645, of "Interoceanic Canal Navigation Criteria", WW2:May 70:395:7288

Duvall, B. U.
Dsc, SM2:Mar 69:640:6429, of " Guide Specifications for Chemical Grouts", SM2:Mar 68: 345:5830

Dvinoff, Arthur H.
Phreatic Surface Location after Drawdown, with Milton E. Harr, SM1:Jan 71:47:7806
  Dsc: Reginald A. Barron, SM5:May 71:822:8083; Sivajogi D. Koppula, SM8:Aug 71:1134:8270
  Clo: SM2:Feb 72:224:8683
  TR:137:853

Dvoracek, Marvin J.
Artificial Recharge in Water Resources Management, IR2:June 71:219:8185
  Dsc: Rameshwar D. Verma, IR1:Mar 72:167:8750
  Clo: IR4:Dec 72:601:9392
  TR:137:1036
Optimal Utilization of Playa Water in Irrigation, with Theodore G. Roefs, OIDS:72:597

Dworsky, Leonard B.
Research Needs, EPCE:Aug 74:467
See John F. Wall, PP2:Apr 72:227:8829

Dye, Elvis R.
See John H. McGavock, CO1:Mar 71:17:7990

Dye, Forrest Leslie
Memoir of, TR:136:1343

Dyhr-Nielsen, Mogens
Some Sand Transport Phenomena on Coasts with Bars, with Torben Sorensen, 12CEC:71:855
Dsc, HY3:Mar 74:487:10379, of "Information Content of Time-Variant Data", HY3:Mar 73:383:9615

Dyke, William D.
Dsc, Special issue on Urban Development, CE:Jan 70:73
Dsc, CE:Jan 70:73, on A Black Civil Engineer Looks at His Profession, CE:Sept 69:93

Dylla, Anthony S.
See Myron B. Rollins, IR2:June 70:193:7379

Dym, Clive L.
Bifurcation Analyses for Shallow Arches, EM2:Apr 73:287:9649
  Errata: EM1:Feb 74:133:10303
  TR:139:277
See Charles G. Culver, ST10:Oct 72:2291:9302
See Charles G. Culver, TN: ST11:Nov 72:2641:9374
See Charles G. Culver, ST3:Mar 73:417:9620
See Nicholas Mariani, ST4:Apr 73:757:9684
See Wils L. Cooley, EI2:Apr 74:97:10458
See Edward M. Krokosky, CE:May 74:45

Dyson, Gerald R.
Dsc, EI4:Oct 74:366:10835, of "Job Impact of Alternatives to Corps of Engineers Projects", PP4:Oct 73:521:10080

Dzialo, Frederick John
Impact Loading Of Submersible Hulls, CEO-II:70:487

Dziewolski, Richard
Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, TB:73:Ia-3-615

Dzwilewski, Peter T.
Consolidation Properties of Wilkinson Basin Soils, with Adrian F. Richards, TN: GT10:Oct 74:1175:10857

Eades, James L.
See Marshall R. Thompson, TN: SM2:Mar 70:795:7117

Eagelson, P. S.
See M. M. Kolpak, 12CEC:71:327

Eakin, Jack H.
Dsc, CO1:July 73:212:9822, of "Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts", CO1:Mar 72:103:8781

Earattupuzha, John J.
Dsc, with Harihar Raman, WW3:Aug 73:409:9897, of "Equilibrium Beach Profile Scale-Model Relationship", WW4:Nov 72:511:9367
Dsc, with Harihar Raman, WW3:Aug 73:410:9897, of "Maximum Breaker Height", WW4:Nov 72:529:9384
See Harihar Raman, HY4:Apr 71:625:8012
See Harihar Raman, CE13:72:II-1237

Earle, Marshall D.
Height-Period Joint Probabilities in Hurricane Camille, with Curtis C. Ebbesmeyer and Douglas J. Evans, TN: WW3:Aug 74:257:10724

Earles, James D.
Irrigation Canal System Capacity Design Criteria, IR3:Sept 73:227:9973
  Dsc: Frederick L. Hotes, IR3:Sept 74:394:10771
  TR:139:367

Easley, John T.
Buckling of Light-Gage Corrugated Metal Shear Diaphragms, with David E. McFarland, ST7:July 69:1497:6683
  Dsc: Arthur H. Nilson, ST12:Dec 69:3004:6932; Vladislav Hlavacek, ST3:Mar 70:740:7116
  Clo: ST10:Oct 70:2231:7570
  TR:136:189

Easley, R. Andrew, Jr.
Sanitary Sewer Extension Built Above Ground, CE:Apr 71:66
  TR:137:309

Ebbesmeyer, Curtis C.
Fifth Order Stokes Wave Profiles, TN: WW3:Aug 74:264:10724
See Marshall D. Earle, TN: WW3:Aug 74:257:10724

Eberhard, John P.
A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, TB:73:Ia-1-133

Eberhardt, Andrew
Spillway Foundation Damage and Repairs, EFFD:Mar 74:401
Dsc, PO1:Jan 71:251:7784, of "Wave Propagation in Confined Clay", SM4:July 70:1391:7434
Dsc, PO4:Dec 71:886:8554, of "Safety Inspection Of Hydro Projects-FPC Order 315", PO2:Mar 71:449:7958

Eberhart, Howard D.
Berkeley Offers Professional Masters Degree, CE:Nov 73:74
  TR:139:514

Echelberger, Wayne F., Jr.
Disinfection of Algal Laden Waters, with Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, NSCD:71:563
Disinfection of Algal Laden Waters, with Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472
  Dsc: Madhav L. Tikhe, SA6:Dec 72:1044:9393
  TR:138:91
See Thomas L. Theis, SA4:Aug 70:1004:7441
See Kurt J. Guter, SA1:Feb 71:109:7865

Eckberg, C. E., Jr.
Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steel of Joint ASCE-AASHO Committee on Steel Flexural Members, ST9:Sept 68:2033:6112
  Dsc: C. N. Srinivasan, ST4:Apr 69:780:6486; William L. Gamble, ST4:Apr 69:781:6486; F. H. Needham, ST6:June 69:1376:6583; Anatol A. Eremin, ST6:June 69:1377:6583; Anatole Longinow, ST6:June 69:1377:6583
  Clo: ST2:Feb 70:410:7047
  TR:135:712

Eckel, Clarence Lewis
Clarence Eckel Dies, CE:Feb 73:71
Memoir of, TR:138:612

Eckenfelder, G. V.
Dsc, with J. David Gwynn, Eric M. Wilson and Brian Severn, CE:May 73:45, on Tidal Energy from the Bay of Fundy, CE:Dec 72:40

Eckenfelder, W. Wesley, Jr.
The Design and Economics of Joint Wastewater Treatment Facilities, with Carl E. Adams, Jr., CWFE:Mar 71:291
Design and Economics of Joint Wastewater Treatment, SA1:Feb 72:153:8746
  Dsc: Paul M. Berthouex, SA5:Oct 72:804:9225; Santosh R. Goswami, SA6:Dec 72:1053:9393
  TR:138:261
See Srinivasalu Balakrishnan, SA1:Feb 69:185:6372
See Carl E. Adams, Jr., SA2:Apr 70:333:7205
See Srinivasalu Balakrishnan, SA2:Apr 70:501:7236

Ecker, Richard M.
San Francisco Bar Dredge Material Disposal, with John F. Sustar, CE13:72:II-913

Eckler, D. A.
See James H. Schaub, CEE:Feb 74:2-298

Edelman, T.
Dune Erosion During Storm Conditions, CE13:72:II-1305

Eden, Edwin W., Jr.
Currents in an Interoceanic Canal, HY1:Jan 69:79:6342
  Dsc: Alva J. Armstrong, HY6:Nov 69:2170:6866; Donald R.F. Harleman and Chok-Hung Lee, HY1:Jan 70:269:6988
  Clo: HY8:Aug 70:1714:7439
  TR:135:970
Interoceanic Canal Navigation Criteria, WW2:May 70:395:7288
  Dsc: Miles P. DuVal, Jr., WW4:Nov 70:869:7645; Sol M. Gleser, WW4:Nov 70:872:7645; Charles G. Moody, WW2:May 71:427:8086
  Clo: WW1:Feb 72:78:8686
  TR:137:73
Vessel Controllability in Restricted Waters, WW3:Aug 71:475:8310
  Errata: WW3:Aug 72:420:9081
  TR:137:806

Edge, Billy L.
A Dynamic Structure-Soil-Wave Model For Deep Water, with Paul G. Mayer, CEO-II:70:13
Dynamic Structure-Soil Wave Model for Deep Water, with Paul G. Mayer, WW1:Feb 71:167:7889
  TR:137:881
Hydrodynamic Analysis of Sludge Dumped in Coastal Waters, CE13:72:III-2187

Edge, Duane E.
Dsc, SM3:May 70:1077:7249, of "Standardization of Particle-Size Ranges", SM5:Sept 69:1247:6795

Edinger, John Eric
Analyzing Steam Electric Power Plant Discharges, with John C. Geyer, SA4:Aug 68:611:6064
  TR:136:634
Shape Factors for Cooling Lakes, PO4:Dec 71:861:8616
  TR:137:970
Dsc, SA5:Oct 69:991:6802, of "Impoundment and Temperature Effect on Waste Assimilation", SA1:Feb 69:37:6406
Dsc, with Norio Yanagida, HY2:Feb 72:412:8681, of "Cooling Water Density Wedges in Streams", HY10:Oct 71:1639:8446
See Earl E. Eiker, SA1:Feb 71:116:7865

Edmonds, F. David
Approximate Determination of Frame Critical Loads, with Ian C. Medland, ST3:Mar 72:695:8771
  Dsc: Brian R. Wood and Peter F. Adams, ST1:Jan 73:209:9462
  Clo: ST7:July 73:1638:9826
  TR:139:28

Edmonds, Robert F.
See James G. Hester, EPCE:Aug 74:241

Edson, Quentin A.
Cowlitz Salmon Hatchery, with Ray J. Banys, PO1:Jan 71:61:7801
  TR:137:112

Edwards, Allan B.
See Carmen F. Guarino, EE4:Aug 74:919:10722

Edwards, Arthur D.
Theory of Cracking in Concrete Members, with Andre Picard, ST12:Dec 72:2687:9428
  TR:138:584

Edwards, Lawrence K.
Urban Gravity-Vacuum Transit System, TE1:Feb 69:173:6423
  Dsc: John Paul Hartman, TE1:Nov 69:709:6868
  TR:135:425

Edwards, Reed A.
See Fred J. Molz, TN: HY4:Apr 72:747:8803

Edwards, Thomas Charles
Properties of Pile Cushioning Materials, with Lee L. Lowery, Jr. and Teddy J. Hirsch, ST7:July 69:1431:6663
  TR:136:169
See Lee L. Lowery, Jr., CEO-II:70:415
See Hayes E. Ross, Jr., ST6:June 70:1221:7383
Memoir of, TR:135:1123

Edwards, W. M.
See J. H. Caro, IAWM:72:141

Eeds, W. Leary
Memoir of, TR:137:1056

Eemura, Tonia
Hydraulic Model Experiment On Waste Diffusion In Tokyo Bay, with Masamitsu Onitsuka, Hiroshi Fukao and Fumio Yamaguchi, CEO-II:70:247

Efimba, R. Elangwe
See Jose M. Roesset, ST4:Apr 73:637:9644

Efsen, Axel
Computation of Twin Walls Connected by Clamped Beams, with L. Pilegaard Hansen, TB:73:III-21-265

Egan, G. R.
See Stanley T. Rolfe, TB:73:II-18-781

Eggleston, David M.
Recent Progress in Dual-Mode Bicycle Transportation, BP73:Dec 73:616

Egiazaroff, Ivan V.
Dsc, HY4:June 69:2151:6866, of "Design of Stable Channels in Alluvial Materials", HY2:Nov 68:1399:6217
Dsc, WW1:Feb 71:216:7868, of "Self-Stabilizing Tendencies of Alluvial Channels", WW2:May 70:235:7263
Memoir of, TR:137:1057

Egli, Paul
Simulation Model for the Appraisal of Irrigation Projects, OIDS:72:35

Eguchi, Yasuhiko
See Takeshi Ijima, 12CEC:71:1537

Ehasz, Joseph L., Jr.
Foundation Design of the Waterford Nuclear Plant, with E. Radin, SDNPF:Dec 73:83
Implementation of Foundation Design Criteria, with M. Temchin, SDNPF:Dec 73:99

Ehlers, Clarence J.
See Richard A. Sullivan, CO1:July 73:59:9844

Ehm, H.
Behavior of Structure under Fire, State-of-Art Report 2, TB:73:Ib-8-491

Ehrhart, Robert W.
See Haywood G. Dewey, Jr., PO2:Nov 73:405:10169

Ehrler, O.M. Christof
Nonlinear Parameters of Vibrating Foundations, SM6:Nov 68:1199:6208
Clo: SM7:July 71:1023:8224
TR:136:640

Eichert, Bill S.
Computer Determination of Flow Through Bridges, with John Peters, HY7:July 70:1455:7412
Dsc: Chesley J. Posey, HY5:May 71:736:8081
Clo: HY12:Dec 71:2083:8552
TR:137:76
Survey of Programs for Water-Surface Profiles, HY2:Feb 70:547:7098
Dsc: Richard C. Huning, HY9:Sept 70:1915:7497; Ramanand Prasad, HY11:Nov 70:2389:7641; Marc DeSomer and Jean Berlamont, HY12:Dec 70:2638:7711
Clo: HY8:Aug 71:1237:8267
TR:136:1012

Eickhorst, Anson G.
Replacement-Lock and Dam No. 26: Lock Capacity Procedure and Scope, with DuWayne A. Koch, WW1:Feb 70:15:7094
TR:136:445

Eide, Ove
Test Fills to Failure on the Soft Bangkok Clay, with Soren Holmberg, PES:72:I-159

Eigenbrod, Kurt D.
See Norbert R. Morgenstern, GT10:Oct 74:1137:10885

Eiker, Earl E.
Dsc, with John Eric Edinger, SA1:Feb 71:116:7865, of "Examination of the Thermocline", SA2:Apr 70:353:7219

Eilers, Richard G.
See Joseph F. Roesler, SA3:June 71:269:8182

Einstein, Hans Albert
Deposition of Suspended Particles in a Gravel Bed, HY5:Sept 68:1197:6102
Dsc: Kuan M. Yao, HY2:Mar 69:761:6433; M. W. Owen, HY3:June 69:1085:6524
Clo: HY2:Feb 70:581:7045
TR:135:719
Einstein Bed-Load Function at High Sediment Rates, with Farouk M. Abdel-Aal, HY1:Jan 72:137:8652
Dsc: Mohammad Akram Gill, HY10:Oct 72:1888:9222; Heramb D. Sharma, D. V. Varshney and Vijay K. Agarwal, HY2:Feb 73:375:9523
Clo: HY8:Aug 73:1269:9895
TR:139:22
Hans A. Einstein Dies At 69, CE:Sept 73:116
Sediment Transport by Wave Action, CE13:72:II-933
See Ramaswamy Sakthivadivel, HY2:Feb 70:461:7075

Einstein, Herbert H.
Model Studies on Mechanics of Jointed Rock, with Ronald C. Hirschfeld, SM3:Mar 73:229:9610
Dsc: David A. Howells, GT1:Jan 74:83:10250
Clo: GT8:Aug 74:952:10695
TR:139:279
Selection of Chemical Grout for Mattmark Dam, with Gerold Schnitter, SM6:Nov 70:2007:7684
TR:136:1212

Einsweiler, Robert C.
Metropolitan Planning and Implementation, UP2:Oct 70:113:7581
TR:136:828

Eisele, Donald O.
Converting a Railroad to a First Class Suburban Rail Transit System - Under Traffic, NA:Mar 71:181
State of the Art-Urban Transportation Systems, TE3:Aug 69:439:6729
TR:136:50
Dsc, TE3:Aug 74:785:10698, of "Schedule Planning and Timetable Construction for Commuter Railroad Operations", TE3:Aug 73:627:9922

Eisenberg, Wilbert S.
Environmental Aspects of Jacksonville Harbor Project, WW2:May 73:265:9757
TR:139:359

Eisenstein, Zdenek
An Analysis of the Cracking at Duncan Dam, with A. V.G. Krishnayya and Norbert R. Morgenstern, PES:72:I-765
See Norbert R. Morgenstern, LS:70:51
See A. V.G. Krishnayya, GT4:Apr 74:464:10440
See Abbanki V. Gopala Krishnayya, GT9:Sept 74:1051:10828

Eitan, Ruben
See Zvi Getzler, SM4:July 70:1357:7431

Ekern, Paul C.
Dsc, HY12:Dec 71:2100:8552, of "Hydrology and Geology of Honolulu Aquifer", HY2:Feb 71:233:7910

Elango, K.
See M. H. Abdul Khader, HY1:Jan 71:194:7783
See M.H. Abdul Khander, HY5:May 73:845:9689
See M. H. Abdul Khader, EM6:Dec 74:1149:11003
See M. H. Abdul Khader, EM6:Dec 74:1266:10972

El-Baroudi, Hassan M.
Characterization of Settling Tanks by Eddy Diffusion, SA3:June 69:527:6618
Errata: SA2:Apr 70:627:7190
TR:135:96
Tracer Dispersion of High Rate Settling Tanks, with David R. Fuller, EE3:June 73:347:9820
Dsc: Kou-Ying Hsiung, EE3:June 74:775:10564
TR:139:219

El-Bayoumy, Lotfi
Buckling of Clamped Rectangular Plates, EM4:Aug 71:1277:8336
TR:137:770

El-Dakhakhni, Wagih M.
See Eric R. Bryan, ST1:Nov 68:2549:6218

El-Demirdash, I. A.
Elastic and Limit States Design, TB:73:II-19-892

Elder, L. [illegible]
See William R. DeKeyser, CE:Mar 74:64

Elder, Rex A.
Inflow Density Currents in TVA Reservoirs, ISSF:Aug 72:221
See Walter O. Wunderlich, HY6:Nov 69:2081:6917
See Svein Vigander, HY2:Feb 70:509:7085
See Walter O. Wunderlich, HY5:May 70:1207:7248
See Sheng-Tien Hsu, HYB:Aug 73:177

Elfgren, Lennart
Torsion-Bending-Shear Interaction for Concrete Beams, with Inge Karlsson and Anders Losberg, ST8:Aug 74:1657:10749

Dsc, with Inge Karlsson and Anders Losberg, ST2: Feb 71:729:7867, of "Concrete Beams in Bending, Torsion and Shear", ST5:May 70:885:7270
Dsc, with Inge Karlsson and Anders Losberg, ST3: Mar 71:995:7944, of "What Do We Know About Torsion in Concrete Members", ST6:June 70:1185: 7372

Elfren, Lennart G.
Dsc, ST12:Dec 74:2526:10977, of "Ultimate Strength of Concrete Box Girder Bridge", ST1:Jan 74:31: 10293

El-Gaaly, Mohamed A.
See Kenneth C. Rockey, ST12:Dec 72:2739:9409

El-Ghamry, Osman A.
Dsc, with Hsai-Yang Fang, SM4:Apr 71:700:8014, of "Model Study of Laterally Loaded Piles", SM5: Sept 70:1605:7511

El Hafez, M. Bassam
Preliminary Plastic Design of Tall Steel Frames, with Graham H. Powell, ST9:Sept 74:1837:10796
See Graham H. Powell, ST8:Aug 74:1611:10739

Elias, Ziad M.
Duality in Finite Element Methods, EM4:Aug 68: 931:6074
  TR:136:630

Eliassen, Rolf
The Nature of Education in Environmental Engineering at Universities, CWFE:Mar 71:221
Versatility and Expandability of Pretreatment, with D. F. Coburn, SA2:Apr 69:299:6514
  TR:136:1038
See George Tchobanoglous, SA2:Apr 70:243:7210

Elkins, B. V.
Construction Of An Ocean Outfall Sewer and the Marine Environment In Its Vicinity, CEO-II:70:413

Elkouh, Abdel F.
Laminar Flow Between Porous Rotating Disks, EM4: Aug 68:919:6069
  Errata: EM4:Aug 69:1006:6705
  TR:135:596

Ellifritt, Duane S.
Rapid Design of Tapered Rigid Frames, CE:July 72: 45
  TR:138:323

Elling, Rudolf
Concentrated Loads Applied to Shallow Shells, EM2: Apr 73:319:9651
  Errata: EM2:Apr 74:460:10439
  TR:139:283

Ellinger, Max
The Viennese Subway System, TB:73:C-P-269

Ellingwood, Bruce R.
Risk-Based Evaluation of Design Criteria, with Alfredo H.-S. Ang, ST9:Sept 74:1771:10778

Elliott, Arthur L.
Bigger Bridge Loads Coming-Will We Be Ready, CE: Feb 69:52
  Dsc: Felipe U. Derteano, CE:May 69:66
  TR:135:123
Falsework Failures; Can They be Prevented?, CE:Oct 73:74
  TR:139:434
The San Fernando Earthquake - A Lesson in Highway and Bridge Design, CE:Sept 72:95
  TR:138:424
What Designers Should Know About Fracture Toughness, CE:Apr 74:70
See Robert L. Boulware, CE:Oct 71:42

Elliott, Charles M.
Potamology Data Collection on Lower Mississippi River, WW3:Aug 70:601:7466
  Dsc: Amarendra N. Biswas, WW2:May 71:431: 8086
  Clo: WW2:May 72:265:8863
  TR:137:705

Elliott, Dennis M.
Dallas/Fort Worth's AIRTRANS: model for future PRT systems, CE:July 74:70

Elliott, R. V.
See J. B. Bryce, ISSF:Aug 72:145

Elliott, Robert D.
Design of Cloud Seeding Program, IR2:June 69:275: 6600
  Dsc: Robert L. McFall, IR4:Dec 69:649:6930
  Clo: IR3:Sept 70:351:7498
  TR:135:1004

Ellis, Charles Alton
Memoir of, TR:135:1155

Ellis, Derek V.
See Norval Balch, CE13:72:III-2117

Ellis, Harold B.
Use of Cycloidal Arcs for Estimating Ditch Safety, SM2:Feb 73:165:9566
  Dsc: Bruce M. Thorson, SM11:Nov 73:1028: 10112; Richard L. Handy, GT1:Jan 74:81:10250
  Errata: SM6:June 73:481:9762
  Clo: GT11:Nov 74:1251:10897
  TR:139:258

Ellis, John
Unsteady Flow in Channel of Variable Cross Section, HY10:Oct 70:1927:7583
  Dsc: George Fleming, HY3:Mar 71:475:7940
  Clo: HY10:Oct 71:1762:8407
  TR:136:1264

Ellis, John S.
See Peter J. Marshall, ST9:Sept 70:1873:7515
See Unnikrishna S. Pillai, ST5:May 71:1399:8094
See John F. Lott, ST5:May 71:1445:8108

Ellis, Raymond H.
Approaches for Improving Airport Access, with John C. Bennett and Paul R. Rassam, TE3:Aug 74:661: 10737
Reexamination of Transportation Planning, TE2:May 73:371:9752
  TR:139:339
Transportation Planning Myths and Realities, UTI:71: 243
See Paul R. Rassam, TE2:May 72:191:8884

Ellis, Robert W., Jr.
Engineering Technology at Florida International (Bachelor's Programs for a Major Urban Region), CEE:Feb 74:1-264

Ellis, Wilbert M.
See Joe C. Willis, HY3:Mar 72:489:8765

Ellison, Richard D.
Lumped Parameter Beams Based on Impedance Methods, with Elio E. D'Appolonia and Gerald R. Thiers, SM4:Apr 71:661:8052
  Dsc: Michael W. O'Neill, SM9:Sept 71:1350: 8347; Harry G. Poulos, SM12:Dec 71:1716: 8556
  TR:137:931
Research to Practice in Pollution Control, CE:Mar 70:76

Ellstein, Abraham
Settlements Development: Observed Versus Predicted, PES:72:I-1073
Vertical Stresses Due to Deep Foundations, with Leonard Rapoport, 4PCSM:71:II243

Ellyin, Fernand
Effect of Skew Penetration on Stress Concentration, with Archibald N. Sherbourne, EM6:Dec 68:1317:6265
  Errata: EM1:Feb 71:129:7862
  TR:136:37
Elastic-Plastic Behavior of Intersecting Shells, EM1:Feb 69:69:6387
  TR:136:701

Elmberg, Curt M.
Gothenburg (Sweden) Uses Barriers to Cut Traffic, CE:Sept 72:71
  TR:138:406

Elmer, Joseph O.
See Richard P. Long, HY5:May 74:703:10505

Elms, David G.
Shells of Revolution with Concentrated Edge Forces, EM3:June 69:711:6625
  Dsc: Salman H. Abu-Sitta, EM6:Dec 69:1451:6929
  Clo: EM5:Oct 70:788:7574
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, TB:73:C-AC31-167
Dsc, EM3:June 70:372:7309, of "Hyperboloids of Revolution Supported on Columns", EM.5:Oct 69:1083:6820
Dsc, ST7:July 70:1607:7386, of "Analysis of Shear Walls with Openings", ST10:Oct 69:2093:6824
Dsc, EI1:Jan 74:93:10252, of "Ethical Optimization in Engineering", PP2:Apr 73:223:9669
See John C. Bell, TN: ST7:July 71:2041:8226
See Rowland Richards, Jr., EI4:Oct 74:293:10845

El Nimeiri, Mahjoub
See Zdenek P. Bazant, EM6:Dec 73:1259:10247
See Zdenek P. Bazant, ST10:Oct 74:2071:10877

El Nimur, Ahmed
Seepage from Trenches Through Nonhomogeneous Soils, with Robert L. Street, IR1:Mar 72:13:8777
  TR:138:185

Eloubaidy, Aziz F.
Wind Shear-Turbulence and Reaeration Coefficient, with Erich J. Plate, HY1:Jan 72:153:8651
  Dsc: Ronald E. Rathbun, HY9:Sept 72:1733:9156
  TR:138:111

Elphingstone, G.
See Kam W. Wong, SU2:Nov 72:219:9322

Elsamny, Mohammed K.
Stress Field Under Slipping Rigid Wheel, with Ahmed A. Ghobarah, SM1:Jan 72:13:8625
  Dsc: H. John Hovland, SM8:Aug 72:832:9078; Jo-Yung Wong, SM9:Sept 72:977:9158
  Clo: SM3:Mar 73:295:9582
  TR:138:113

El-Sohby, Mohamed A.
Elastic Behavior of Sand, SM6:Nov 69:1393:6916
  Dsc: Alan K. Parkin, SM3:May 70:1080:7249
  TR:136:320
Dsc, SM12:Dec 71:1711:8556, of "Recoverable Deformation Of Cohesionless Soils", S&M2:Feb 71:375:7911
See Kamal Z. Andrawes, SM5:May 72:504:8860
See Kamal Z. Andrawes, SM7:July 73:527:9863

Elstner, Richard C.
Dsc, CE:Apr 73:81, on Structural Failures from the Human Side, CE:Jan 73:81

Elston, Judson P.
Purpose or Need for Grouting in the Treatment of Foundations, IMROD:Sept 73:563

Elwood, John R.
Alternate Methods of Wastewater Disinfection, with Russell H. Isaac and Martin Weiss, NSCD:71:189

Ely, Allen L.
Congestion in Marina Entrance Channels Due to Sailboats, with John M. Nichol, WW4:Nov 73:415:10137
  TR:139:509

Ely, John Andrews
Memoir of, TR:136:1344

Emanuel, Jack H.
See Joseph C. Reynolds, ST1:Jan 74:63:10275

Emerson, Joseph
Dsc, with George J.W. King, SM1:Jan 70:345:6989, of "Soil Mechanics and Theorems of Limit Analysis", SM2:Mar 69:493:6450

Emerton, Robert K.
Symmetric Buckling of Inelastic Spherical Shells, with Nicholas F. Morris, EM6:Dec 72:1417:9446
  TR:138:586

Emkin, Leroy Z.
Plastic Design of Multistory Steel Frames by Computer, with William A. Litle, ST1:Nov 70:2373:7689
  Dsc: Peter F. Adams, ST10:Oct 71:2606:8411
  Clo: ST5:May 72:1183:8861
  TR:137:466
Some New Plastic Analysis and Design Techniques, TB:73:II-15-377
Storywise Plastic Design for Multistory Steel Frames, with William A. Litle, ST1:Jan 72:327:8675
  TR:138:139

Emling, Robert V.
Transportation R&D By Private Enterprise, TE4:Nov 70:591:7668
  TR:137:844

Emmerling, Clifford L.
Montana Power Company's Dam Repair Program, CO2:Sept 72:295:9208
  TR:138:565

Emrich, William J.
See Bramlette McClelland, SM6:Nov 69:1491:6913

Engel, F. V. A.
Dsc, HY3:May 69:1068:6524, of "Rationalization of Lacey's Regime Flow Equations", HY4:July 68:983:6039

Engel, Samuel
Structural Analysis of Circular Curved Beamn, ST1:Mar 67:221:5099
  Dsc: Charles G. Culver, ST3:June 67:358:5253; Walid H. Rimawi, ST1:Jan 68:336:5702; T. Paul Jansen, ST3:Mar 68:835:5828
  Clo: ST7:July 69:1571:6644
  TR:135:361

Engelbrecht, Richard S.
See Irvine Wen-Tung Wei, SA1:Feb 69:1:6384
See Malay Chaudhuri, SA1:Feb 71:118:7865
See Malay Chaudhuri, SA6:Dec 71:944:8555
See Malay Chaudhuri, EE4:Aug 74:937:10732

Engelke, Roger L.
Evaluation of Synthetic Aggregate from Lignite Fly Ash, with William B. Ledbetter and Bob M. Gallaway, TE1:Feb 74:27:10337

Engelund, Frank
Dispersion of Floating Particles in Uniform Channel Flow, HY4:July 69:1149:6659
  Clo: HY6:June 70:1356:7310
  TR:135:74
Flow and Bed Topography in Channel Bends, HY11:Nov 74:1631:10963
Surface Jet at Small Richardson Numbers, with Flemming Bo Pedersen, HY3:Mar 73:405:9588
  TR:139:217

Dsc, HY2:Mar 69:747:6433, of "Rationalization of Lacey's Regime Flow Equations", HY4:July 68:983: 6039
Dsc, WW3:Aug 71:590:8272, of "Flume Experiments on Alternate Bar Formation", WW1:Feb 71:155: 7869
Dsc, HY4:Apr 72:726:8799, of "Sediment Dispersion in Flow with Moving Boundaries", HY8:Aug 71: 1181:8287

Enger, Thorleif
Flowgraph Analysis of Pipeline Networks, with Chuan C. Feng, HY10:Oct 71:1607:8404
Errata: HY9:Sept 72:1722:9156
TR:137:794

England, Charles B.
Land Capability Classes As Hydrologic Response Units in Watersheds, IAWM:72:53
Dsc, with Chin-lien Yen and Robert M. Dixon, HY9: Sept 73:1630:9961, of "Perturbation Analysis of Two-Phase Infiltration", HY9:Sept 72:1527:9186
See Louis M. Glymph, IR2:June 71:305:8174

Englande, Andrew, Jr.
See Larry W. Carter, SA6:Dec 69:1117:6975

English, Gordon W.
Experiments on Laterally Loaded Steel Beam-Columns, with Peter F. Adams, ST7:July 73:1457: 9851
TR:139:398

Engmann, E. O.
Dsc, HY12:Dec 74:1849:10974, of "Diffusion and Dispersion in Open Channel Flow", HY1:Jan 74: 159:10298

Engstrom, Fred
Mechanical Equipment Problems on Old Dams, IMROD:Sept 73:440

Engstrom, S. L.
See D. E. Peterson, PO1:May 73:193:9736

Epetit, J. P.
Transport Littoral: Essais et Calculs, CE13:72:II-971

Epp, Robert
Efficient Code for Steady-State Flows in Networks, with Alvin G. Fowler, HY1:Jan 70:43:7002
Dsc: Ian P. King, HY11:Nov 70:2379:7941; A. Roy Halliwell and Sabah A. Al-Nassri, HY12: Dec 70:2615:7711
Clo: HY7:July 71:1131:8223
TR:136:867

Epperly, Victor P.
Are You Qualified to Take an Educational Expense Deduction This Year?, CE:Mar 74:96
Dsc, A/E Selection Method, CE:Apr 74:22

Epps, Jon A.
See Bob M. Galloway, TE4:Nov 72:915:9347

Epstein, Howard I.
Civil Engineering: Flexible or Rigid Program, CEE: Feb 74:1-16
Dsc, with Gordon R. Johnson and Paul P. Christiano, EM6:Dec 74:1269:10972, of "Modal Damping for Soil-Structure Interaction", EM2:Apr 74:323:10490
See Gordon R. Johnson, TN: ST7:July 74:1537: 10647
See Gordon R. Johnson, EPCE:Aug 74:499

Epstein, Marcelo
Nonlinear Analysis of Pin-Jointed Space Trusses, with Yair Tene, ST9:Sept 71:2189:8357
TR:137:751

Erchinger, Heie Focken
Land Reclamation and Groin-building in the Tidal Flats, 12CEC:71:1041

Erchul, R. A.
Lubricant And Polymer Reduction Of Sediment Adhesion, with Raymond J. Smith, CEO-II:70:621

Eremin, Anatol A.
Dsc, ST6:June 68:1630:5966, of "Tests on Composite Beams with Cellular Deck", ST4:Aug 67:139:5391
Dsc, ST10:Oct 68:2503:6135, of "Analysis of Pierced Shear Walls", ST1:Jan 68:71:5710
Dsc, ST1:Jan 69:124:6325, of "Bridge Analysis Using Orthotropic Plate Theory", ST2:Feb 68:565:5822
Dsc, ST2:Feb 69:272:6373, of "Design of Beams With Web Openings", ST3:Mar 68:783:5869
Dsc, ST2:Feb 69:277:6373, of "Flexible Culverts Under High Fills", ST4:Apr 68:905:5888
Dsc, ST2:Feb 69:298:6373, of "Behavior of Elastic-Plastic Frames", ST5:May 68:1119:5942
Dsc, ST3:Mar 69:486:6430, of "Lateral Stability of Welded Light Trusses", ST3:Mar 68:809:5873
Dsc, ST3:Mar 69:528:6430, of "Behavior of Reinforced Concrete under Repeated Load", ST6: June 68:1567:6013
Dsc, ST3:Mar 69:532:6430, of "Laminated Wood Beams Reinforced with Steel Strips", ST7:July 68: 1681:6020
Dsc, ST4:Apr 69:761:6486, of "Slender Prestressed Concrete Columns", ST4:Apr 68:875:5886
Dsc, ST4:Apr 69:779:6486, of "Plastic Design of Flexible Conduits", ST8:Aug 68:1935:6070
Dsc, ST6:June 69:1377:6583, of "Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steel of Joint ASCE-AASHO Committee on Steel Flexural Members", ST9:Sept 68:2033:6112
Dsc, ST7:July 69:1585:6644, of "Mechanisms of Shear Resistance of Concrete Beams", ST10:Oct 68:2325:6167
Dsc, ST9:Sept 69:1993:6755, of "Prestressed Precast Concrete Railroad Bridges", ST12:Dec 68:2885: 6302
Dsc, ST1:Jan 70:147:6990, of "Residual Stress Measurement in Tubular Members", ST4:Apr 69: 635:6502
Dsc, ST2:Feb 70:436:7047, of " Horizontally Curved Girders-State of the Art", ST5:May 69:853:6546
Dsc, ST3:Mar 70:736:7116, of "Earthquake Design Criteria for Subways", ST6:June 69:1213:6616
Dsc, ST7:July 70:1608:7386, of "Analysis of Shear Walls with Openings", ST10:Oct 69:2093:6824
Dsc, ST8:Aug 70:1813:7442, of "Beams on Discrete, Nonlinear Elastic Supports", ST11:Nov 69:2335: 6873

Ergin, Aysen
Irregular Wave Action on Rubble-Mound Breakwaters, with Serif Pora, WW2:May 71:279: 8114
Dsc: Juan B. Font, WW1:Feb 72:110:8686; Jade Dattatri, WW1:Feb 72:111:8686; Per Moller Bruun and Palmi Johannesson, WW1:Feb 72: 113:8686
Clo: WW4:Nov 72:9310
TR:137:920

Erho, Michael W.
See James G. Patrick, CE:Oct 70:61
See Robert T. Loder, PO2:Mar 71:301:7982

Erichsen, Frank P.
Let's Take a Look at Channel Improvement, IAWM: 72:261

Erickson, Eric L.
Erickson Named Second Boase Award Winner, CE: Feb 72:56

Erickson, Herbert B.
Strengthening Rock by Injection of Chemical Grout, SM1:Jan 68:159:5744
Dsc: Adam Clive Houlsby, SM1:Jan 69:428:6324
Clo: SM5:Sept 69:1271:6754
TR:135:644

Erickson, L. E.
See J. S. Shastry, SA6:Dec 69:1186:6931
See J. S. Shastry, EE3:June 73:315:9798
See P. N. Mishra, EE6:Dec 73:962:10180
See Liang-tseng Fan, EE6:Dec 74:1231:11018

Ericsen, Richard G.
Automation of an Existing Irrigation System - Part I, IR73:Aug 73:369

Ericson, David K.
See Lewis G. Hulman, HY1:Jan 72:105:8668

Ericson, Gayle A.
See Robert R. Rising, URC:72:381

Ericson, LeRoy
See Vincent G. Terenzio, SA5:Oct 72:789:9225

Ericson, Lloyd Ralph
Memoir of, TR:136:1345

Erie, Leonard J.
Management: A Key to Irrigation Efficiency, IR3: Sept 68:285:6107
  Dsc: Paul F. Keim, IR1:Mar 69:258:6428
  Clo: IR4:Dec 69:602:6930
  TR:135:555

Erler, Bryan A.
See C. N. Krishnaswamy, ST7:July 73:1664:9826

Erman, Burak
Propagation of Waves in Dissipative Media, with Fuat Guzaltan and Attila Askar, TN: GT12:Dec 74:1321:10981

Ernst, George C.
See Gerald M. Smith, ST2:Feb 74:391:10355

Errera, Samuel J.
Bolted and Welded Stainless Steel Connections, with Daniel W. Popowich and George Winter, ST6:June 74:1279:10618
See Tamirisa V.S.R. Apparao, ST5:May 69:965:6576
See Asfandiar K. Dhalla, ST10:Oct 71:2549:8442

Ertas, Rebi
See Steven J. Fenves, ST7:July 69:1586:6644

Erzurumlu, Hacik
Fatigue of Orthotropic Steel Decks, with A. Anthony Toprac, ST4:Apr 72:813:8823
  TR:138:205

Escoffier, Francis F.
Dsc, HY6:June 74:824:10567, of "Unified Nondimensional Formulation for Open Channel Flow", HY1:Jan 73:1:9468

Eskijian, Luther
Dsc, Escape Lanes, CE:Dec 74:22

Esmaili, Houshang
Facility Selection and Haul Optimization Model, SA6:Dec 72:1005:9408
  TR:138:528

Esogbue, Augustine O.
Dsc, with Thomas L. Morin, HY10:Oct 70:2137: 7568, of "Reservoir System Design Optimization", HY1:Jan 70:125:7023
See Thomas L. Morin, UP1:Apr 71:121:8016

Espey, William H., Jr.
Urban Flood Frequency Characteristics, with David E. Winslow, HY2:Feb 74:279:10352
  Dsc: Leonard J. Lane and Herbert B. Osborn, HY12:Dec 74:1854:10974
See Joe E. Stover, SA3:June 69:675:6582

Espildora, Basilio
Dsc, with Jaime Amorocho, HY1:Jan 74:249:10251, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Espino, Ernesto
See Earnest F. Gloyna, SA3:June 69:607:6637

Esposito, Patrick R.
Heuristic Scheduling Procedures for PRT System, TE4:Nov 74:845:10910

Esrig, Melvin I.
Applications of Electrokinetics in Grouting, SM5: Sept 68:1143:6124
  TR:135:877
Education Profile for Consulting Engineering: A Case Study (Discussion), CEE:Feb 74:2-314
Pore Pressures, Consolidation, and Electrokinetics, PISST:71:263
Stability of Cellular Cofferdams Against Vertical Shear, SM6:Nov 70:1853:7654
  Dsc: Wallace Estill Wilson, SM8:Aug 71:1127: 8270
  Clo: SM6:June 72:643:8929
  TR:137:483
See Yves Lacroix, LS:70:271

Esser, Alan J.
Dsc, with Robert L. Sogge, A.M. and Ralph M. Richard, ST11:Nov 74:2349:10899, of "Stress Distribution Around Shallow Buried Rigid Pipes", ST1:Jan 74:161:10258

Essunger, Gunnar
Architectural-Structural Interaction, Summary Report, TB:73:Ia-12-1163

Esswein, Gene A.
Development of a Plastic Strain Energy Absorbing Pipe Whip Restraint Design, SDNPF:Dec 73:171

Estep, A. C.
Engineers Study Highway Safety, CE:Mar 70:68
  TR:136:312

Esteva, D.
Comparison of Pressure and Staff Wave Gage Records, with D. Lee Harris, 12CEC:71:101

Esteva, Luis
Structural Safety and Probabilistic Methods, Summary Report, TB:73:Ib-10-1043
Dsc, ST2:Feb 69:309:6373, of "Probabilistic Models for Seismic Force Designs", ST5:May 68:1175:5950

Eswaraiah, H. V.
See Kanakapura S. Subba Rao, PO1:May 73:155: 9708

Ettelt, Gregory A.
See Robert B. Grieves, SA3:June 69:515:6610

Eubanks, Robert A.
See Siegfried M. Holzer, EM4:Aug 69:897:6734
See Mubadda T. Suidan, ST5:May 73:923:9749

Evan, B. Wylie
Dsc, with Victor L. Streeter, PL1:Oct 68:196:6133, of "Automation in California's State Water Project", PL3:Nov 67:15:5574

Evans, C. Charles
Dsc, SA4:Aug 69:790:6706, of "Water Conservation by Reclamation and Recharge", SA4:Aug 68:625: 6065

Evans, D. F., II
See L. G. Janzow, RCCD:70:297

Evans, Douglas J.
See Marshall D. Earle, TN: WW3:Aug 74:257:10724

Evans, Evan E.
See Raymond Eugene Davis, ST1:Jan 72:165:8631

Evans, Garrett H.
Committee on Curricula and Accreditation Paper on Proposed New ASCE Policy on Engineering Education (Discussion), CEE:Feb 74:2-288

Evans, H. E.
Effective Stress Principle in Saturated Clay, with Roland W. Lewis, SM2:Mar 70:671:7183

Evans, Henry K.
Balanced Highway-Airport Design, TE1:Feb 69:213:6420
Dsc: Wolfgang S. Homburger, TE1:Feb 70:121:7048
TR:135:1079
Four Freeway Fallacies, San Francisco Section, ASCE Highway Technical Division Task Force, CE:Mar 71:72
Dsc: Freeways, Traffic, and Pollution, Carl H. Zweben, CE:Sept 71:54; Tien H. Wu, CE:Jan 72:51
TR:137:250

Evans, Ralph L.
See Veerasamy Kothandaraman, SA2:Apr 69:362:6785
See Veerasamy Kothandaraman, SA5:Oct 69:988:6802
See Thomas A. Butts, SA2:Apr 70:477:7235
See Veerasamy Kothandaraman, EE3:June 74:785:10564

Evans, Roger J.
Dsc, with Max D. Coon, SM5:Sept 69:1281:6754, of "Elastic Behavior of Cohesionless Soil", SM6:Nov 68:1215:6216
See Max D. Coon, S&M2:Feb 71:375:7911
See Colin B. Brown, TN: ST3:Mar 72:805:8755

Evans, Sidney H.
See Arthur Saltzman, TE4:Nov 72:855:9369

Evans, T. H.
Dsc, Black People Call for ASCE Social Action, CE:Mar 70:42
Dsc, CE:Mar 70:42, on Black People Call for ASCE Social Action, CE:Dec 69:73

Evenden, Fred G.
Dsc, CE:July 70:38, on The Civil Engineer and the Conservationist, CE:Feb 70:37

Everett, Mike
Costs and Benefits of Reducing Bicyclists' Exposure to Road-Side Air Pollution, BP73:Dec 73:352

Everhart, Ralph C.
New Town Planned Around Environmental Aspects, CE:Sept 73:69
TR:139:389

Everts, Craig H.
Particle Overpassing on Flat Granular Boundaries, WW4:Nov 73:425:10125
TR:139:497

Evett, Jack B.
The Urban and Environmental Engineering Program at the University of North Carolina at Charlotte, CEE:Feb 74:1-90

Evick, Donald R.
Torsion of Nonprismatic Beams of Open Section, with Conrad P. Heins, Jr., ST12:Dec 72:2769:9453
Clo: ST10:Oct 73:2213:10039
TR:139:174

Evstatiev, Dimtcho
Dsc, SM2:Feb 73:221:9524, of "Engineering Properties of Compacted Fly Ash", SM4:Apr 72:361:8840
See M. Minkov, SM5:Sept 70:1821:7499

Ewell, W. W.
1969 ASCE Salary Survey, PP1:Sept 70:111:7500

Eyre, Dale G.
Deflection Analysis for Shakedown, with Theodore V. Galambos, ST7:July 70:1359:7403
TR:136:961
Inelastic Shear Deflection of Steel Beams, ST10:Oct 73:1985:10052
Errata: ST8:Aug 74:1736:10697
TR:139:470
Shakedown of Grids, with Theodore V. Galambos, ST10:Oct 73:2049:10049
Errata: ST8:Aug 74:1736:10697
TR:139:469
Shakedown Tests on Steel Bars and Beams, with Theodore V. Galambos, ST7:July 70:1287:7395
Errata: ST6:June 71:1806:8159
TR:136:969

Fackler, R. C.
See M. L. Schwartz, CE13:72:III-2503

Faddick, Robert R.
Dsc, PL1:Oct 68:185:6133, of "Homogeneous Suspensions in Circular Conduits", PL2:July 67:63:5352
Dsc, WW3:Aug 69:429:7252, of " Measuring Solid-Liquid Mixtures in Closed Conduits", WW4:Nov 68:453:6232
Dsc, ST3:June 70:858:7313, of "Thermal Discharges From Large Nuclear Plant", SA6:Dec 69:1131:6983
Dsc, IR3:Sept 70:372:7498, of "Effect of Unit Weight and Slope on Erosion", IR4:Dec 69:551:6984
Dsc, with Henry A. Babcock, HY5:May 71:745:8081, of "Sediment Transportation Mechanics: J. Transportation of Sediment in Pipes", HY7:July 70:1503:7423
Dsc, CO2:Nov 71:336:8482, of "Development of Tunneling Methods and Controls", CO2:Oct 70:99:7577
Dsc, TE1:Feb 72:148:8685, of "Initial Economic Evaluation of Slurry Pipeline Systems", TE2:Apr 71:271:8106

Fader, David J.
Dsc, ST2:Feb 72:543:8684, of "Ambient Vibration of Two Suspension Bridges", ST10:Oct 71:2567:8454
Dsc, ST3:Mar 72:782:8752, of "Response of Triangular Prisms in Turbulent Wind", ST11:Nov 71:2679:8526

Fadum, Ralph E.
Application of New Technology to the Solution of Environmental Problems, PWS:Nov 72:219
Dsc: Stanley E. Jewkes, PWS:Nov 72:231; Waldo G. Bowman, PWS:Nov 72:235
Practioner-Oriented Post-Baccalaureate Education, CEE:Feb 74:1-794

Fagel, Lawrence W.
Earthquake Interaction for Multistory Building, with Shih-Chi Liu, EM4:Aug 72:929:9149
Errata: EM3:June 73:603:9759
TR:139:108
See Shih-Chi Liu, EM4:Aug 71:1223:8324

Fagiolo, Marco
See Piero Sembenelli, GT1:Jan 74:31:10270

Faherty, Keith F.
A Construction Co-op Educational Program, with William E. Kissner, CEE:Feb 74:1-637

Faig, Wolfgang
Photogrammetry and Hydraulic Surfaces, SU2:Nov 72:145:9337
Errata: SU1:Sept 73:142:9965
TR:139:277

Fair, Ernest W.
Retirement Starts Now, CE:Nov 73:77
TR:139:518

Fair, Gordon Maskew
Memoir of, TR:135:1115

Fair, Harlan W.
Social Concerns—Nuclear Offshore River Basin Construction, CO1:Mar 74:51:10417

Fairchild, John C.
Laboratory Tests of Longshore Transport, 12CEC:71:867
Longshore Transport of Suspended Sediment, CE13:72:II-1069

Fairchild, Warren
New Planning Horizons for the Bureau of Reclamation, OIDS:72:19

Fairhurst, Charles
See John A. Hudson, RM13:72:773
See M. P. Hardy, RM14:73:749

Fairweather, Virginia
After Agnew: What's Happening in the Profession, CE:Feb 74:43
Dsc: Grant S. Christensen, CE:June 74:22; William R. Green, CE:July 74:26; James A. Romano,
After Agnew: What's Happening In The Profession, CE:Mar 74:52
Dsc: Charles W. Griffin, Jr., CE:June 74:24; Wayne M. Savaria, CE:Aug 74:24
Energy: A 40 Watt Outlook, CE:Dec 74:45
Expo '74 Rejuvenates Downtown Spokane, CE:June 74:48
The Fickle Mississippi, CE:Dec 73:60
Dsc: Robert J. Becker, CE:Apr 74:22; Richard N. Weisman, CE:May 74:22
TR:139:540
San Antonio: Classic "Stop the Freeway" Case, CE: July 73:59
Dsc: Dean O. Chadwick, CE:Nov 73:38; Francis Marion Davis, CE:Feb 74:20; Dave Brauns, CE: July 74:22
TR:139:287
Sulfur Dioxide Dilemma: Is the Scrubber the Answer?, CE:June 74:64
Support Your Local Student Chapter!, CE:Oct 74:52
What's new in sewer-pipe—II, CE:July 74:79
See Thomas M. Turner, CE:Oct 74:62

Falcocchio, John C.
See Louis J. Pignataro, TE3:Aug 70:251:7454

Falk, Norman D.
Dsc, CE:Oct 73:26, on Is Management The Answer?, CE:May 73:89

Falkenberg, J. C.
Dsc, ST6:June 69:1382:6583, of "Shear Flexibility and Strength of Corrugated Decks", ST1:Nov 68:2549:6218

Fallgren, Richard B.
Aseismic Design Criteria for Electrical Facilities, with Paul C. Jennings, Jay L. Smith and Dennis K. Ostrom, PO1:July 74:1:10652

Fallon, Anthony R.
Discontinuous Composite Wave Absorber Studies, CE13:72:III-1903

Faltus, Frantisek
Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-European Countries, State-of-Art Report 3, with Pavel J. Marek, TB:73:II-13-37

Falvey, Henry T.
Prediction of Wind Wave Heights, WW1:Feb 74:1:10324

Fam, Adel
Dsc, with Carl J. Turkstra, ST5:May 72:1212:8861, of "Analysis of Horizontally Curved Box Girder Bridges", ST10:Oct 71:2481:8453
Dsc, with Carl J. Turkstra, ST10:Oct 72:2320:9227, of "Model Analysis of Curved Box-Beam Highway Bridge", ST12:Dec 71:2861:8603

Fan, Liang-tseng
Effect of Suspended Wastes on System Design, with Ming-ching T. Ku and L. E. Erickson, EE6:Dec 74:1231:11018
Power Plant Cooling Water Discharge in Streams, with Jie-Tsai Tseng and Ching Hwang, PO4:Dec 71:841:8595
TR:137:963
See J. S. Shastry, SA6:Dec 69:1186:6931
See Lindon C. Thomas, TN: EM1:Feb 71:169:7858
See J. S. Shastry, EE3:June 73:315:9798
See P. N. Mishra, EE6:Dec 73:962:10180

Fan, Loh-Nien
Dsc, with Norman H. Brooks, SA6:Dec 68:1295:6262, of "Physical Interpretation Of Jet Dilution Parameters", SA1:Feb 68:55:5789

Fan, Shou-Shan
Dsc, WW1:Feb 70:160:7049, of "Breaker Travel and Choice of Design Wave Height", WW2:May 69:175:6569

Fan, Tauchao C.
Design Parameters for Thermal Shock Problems, ST2:Feb 70:309:7088
Clo: ST12:Dec 70:2670:7714
TR:136:563

Fan, William R.S.
See Movses J. Kaldjian, ST10:Oct 68:2451:6196

Fanelli, Michele A.
Dsc, ST6:June 71:1823:8159, of "Complete Adjustment Method for Analyzing Arch Dams", ST8:Aug 70:1711:7492

Fang, Ching S.
See Michael Amein, HY12:Dec 70:2481:7773
See A. Y. Kuo, CE13:72:III-2265

Fang, Hsai-Yang
Landslides and Foundation Design, TB:73:Ia-11-1012
See Osman A. El-Ghamry, SM4:Apr 71:700:8014

Fangmeier, Delmar D.
Solution for Gravity Flow Under a Sluice Gate, with Theodor S. Strelkoff, EM1:Feb 68:153:5797
Dsc: Charles W. Lenau, EM4:Aug 68:1009:6055; T. Brooke Benjamin, EM6:Dec 68:1585:6260; Habib O. Anwar, EM6:Dec 68:1586:6260
TR:135:814
Dsc, with David W. Fonken, IR3:Sept 71:532:8346, of "Graphic Relation of Intake Length-of-Run and Time", IR3:Sept 70:223:7506
See Theodor S. Strelkoff, IR3:Sept 74:390:10771

Farell, Cesar
Dsc, with Subhash C. Jain and Oktay Guven, HY7:July 73:1167:9823, of "Dynamics of Contained Oil Slicks", HY6:June 72:1013:8950
See Eduard Naudascher, EM2:Apr 70:121:7214

Farghamee, Mehdi S.
Minimum Weight Design of Enclosed Antennas, ST6:June 69:1139:6592
TR:135:46

Farhoomand, Fereydoon
See Robert K. Wen, EM5:Oct 70:667:7621

Faris, Charles O.
Dworshak Dam Underground Crushing Chamber, URC:72:147

Underground Chamber Crushes Rock for Dworshak Dam, CE:June 71:75
TR:137:440

Farley, Donald W.
See David R. Townsend, HY10:Oct 73:1659:10070

Farley, James C.
Partners as First-Class Engineering Technicians, with Noel L. Caldwell, CEE:Feb 74:1-286

Farlow, John S.
Water Pollution on the Continental Shelf, with Lester M. Klashman and Merrill S. Hohman, CEO-II:70: 1233

Farmer, I. W.
See D. A. Greenwood, 4PCSM:72:III172

Farnam, William Orrin, Jr.
Memoir of, TR:138:623

Farnes, Phillip E.
Reservoir Operation Using Snow Survey Data, HYB: Aug 73:249

Farnworth, George A.
Effect Of Flocculation On Activated Sludge Settling Behavior, with Richard I. Dick, TN: SA5:Oct 72: 812:9229

Faro, Robert C.
See Nelson L. Nemerow, SA3:June 70:665:7323

Farquhar, Grahame J.
See James R. McLaren, EE4:Aug 73:429:9901
See Frank A. Rovers, EE5:Oct 73:671:10047
See Peter M. Huck, EE3:June 74:733:10629

Farragut, Paul R.
Bikeway Planning and Implementation - The Maryland Experience, BP73:Dec 73:288

Farrell, R. Paul
See Italo G. Carcich, EE1:Feb 74:25:10315
See Italo G. Carcich, CE:May 74:50

Farrell, Stewart C.
See Joseph M. Colonell, HYB:Aug 73:131

Farshi, Behrooz
Minimum Weight Design of Stress Limited Trusses, with Lucien A. Schmit, Jr., ST1:Jan 74:97:10259

Farwell, Charles R.
Nonuniform Torsion of Steel Beams in Inelastic Range, with Theodore V. Galambos, ST12:Dec 69: 2813:6964
Dsc: Ganpat S. Pandit, ST9:Sept 70:1972:7567
Clo: ST5:May 71:1635:8084
TR:136:785

Farzin, M. Hassan
See Ross B. Corotis, GT9:Sept 74:993:10811
See Raymond J. Krizek, GT12:Dec 74:1275:11030

Fattah, Quais Nuri
Iraqi Wins Smith Fellowship For '73, CE:Sept 73:113

Fattal, Badri
See Hillel I. Shuval, NSCD:71:429

Faulkner, Glen L.
Geohydrologic Aspects of Cross-Florida Barge Canal, SEA:70:307

Fausch, Peter A.
Sizing Pedestrian Queueing Areas, MTI:May 72:113

Fausey, Norman R.
See Lyman S. Willardson, IR4:Dec 68:455:6300

Faust, Samuel D.
See Peter W. Anderson, IR3:Sept 72:375:9205

Favata, Alfred(Fred) J.
ASCE Exhibits Manager, CE:Aug 74:95

Favout, Rinaldo
Improving Urban Highway Transportation through Electronic Route Guidance, UTI:71:141

Fawcett, D. W.
Dsc, SM8:Aug 73:638:9892, of "Strength Properties of Chemically Solidified Soils", SM11:Nov 72:1163: 9332

Fazio, Paul P.
Failure Modes of Folded Sandwich Panel Roofs, ST5: May 72:1085:8913
TR:138:261
Sandwich Plate Structure Analysis by Finite Element, with Kinh H. Ha, ST6:June 74:1243:10593

Fead, John W.N.
Engineering Education for Public Participation, CEE: Feb 74:1-525

Feaver, Douglas D.
Tall Buildings in Antiquity, TB:73:Ia-1-251

Feda, Jaroslav
Dsc, SM6:June 71:945:8158, of "Effect of Strain History on Liquefaction of Sand", SM6:Nov 70: 1917:7670

Fee, Julie Anna
Safety of Pedestrians and Abutting Property Occupants, BP73:Dec 73:85

Fekete, George
Engineer's Notebook: Ultimate Strength Design Of Circular Reinforced Concrete Cross Sections, CE: Nov 73:80

Feld, Jacob
Construction Over Water—Fill or Piles?, with Robert C. Johnston, CE:Aug 74:54
Foundation Failure, CE:June 73:89
Dsc: M. D. Morris, CE:Aug 73:20
TR:139:267
Settlement Control for Cosmotron Base, 4PCSM:71: II189
Dsc, SM4:July 70:1470:7385, of "Building Damage From Expansive Steel Slag Backfill", SM6:Nov 69: 1325:6879
Dsc, SM4:July 70:1478:7385, of "Hydraulic Fills to Support Structural Loads", SM1:Jan 70:23:7009
Dsc, ST8:Aug 70:1852:7442, of "Stability Problems of Wood Truss Bridge", ST2:Feb 70:353:7095
Dsc, PISST:71:194, of "Hydraulic Fills to Support Structural Loads", PISST:71:169
Dsc, PISST:71:244, of "Building Damage from Expansive Steel Slag Backfill", PISST:71:235
Dsc, SM10:Oct 71:1500:8410, of "Performance of Foundation for Altair Radar", SM1:Jan 71:1:7809
Dsc, 4PCSM:72:III125, of "Slope Stability in Residual Soils", 4PCSM:71:I87
Dsc, 4PCSM:72:III147, of "The Allowable Settlement of Structures", 4PCSM:71:I171
Dsc, 4PCSM:72:III171, of "Effects of Foundation Construction on Nearby Structures", 4PCSM:71: I189
Dsc, PES:73:III-174, of "Load Tests on Small Foundations in Soft Clay", PES:72:I-903

Feld, Lester S.
Superstructure for 1,350-ft.-High World Trade Center, CE:June 71:66
Dsc: Richard M. Stanger, CE:Dec 71:71
TR:137:432

Feldhausen, Peter H.
Dsc, with Subrata K. Chakrabarti, WW1:Feb 72:141: 8686, of "Wave Forecasting for the West Coast of India", WW3:Aug 71:505:8303
See Subrata K. Chakrabarti, WW1:Feb 72:136:8686

Feldman, Robert C.
Computer Use on an Environmental Engineering Project, CE:Jan 73:60
TR:139:13

Felippa, Carlos A.
Dsc, ST1:Jan 70:143:6990, of "New Rectangular Finite Element for Shear Wall Analysis", ST3:Mar 69:399:6464
Dsc, with James L. Tocher, ST2:Feb 70:422:7047, of "Efficient Solution of Load-Deflection Equations", ST4:Apr 69:661:6510
Dsc, ST12:Dec 74:2521:10977, of "Incremental Finite Element Matrices", ST12:Dec 73:2423:10226

Felix, Michael P.
See John H. Nath, CE0-II:70:45
See John H. Nath, WW4:Nov 70:815:7700

Fellenius, Bengt H.
Precast Concrete Piles, State-of-Art Report 4B, TB: 73:Ia-11-941

Felton, Lewis P.
See Michael W. Dobbs, ST10:Oct 69:2105:6797

Feng, Chuan C.
See Shen C. Yuan, IR2:June 67:1:5257
See Jimmy L. Noland, EC5:70:731
See Jimmy L. Noland, ST1:Jan 71:439:7855
See Thorleif Enger, HY10:Oct 71:1607:8404

Feng, H.
See August J. Durelli, ST5:Oct 67:383:5524

Feng, Tsuan H.
See Lawrence N. Kuzminski, NSCD:71:85
See Lawrence N. Kuzminski, SA1:Feb 72:229:8722

Fennell, Clarence J.
Four Win ASCE Zone Scholarships: Fennell, CE:Sept 73:112

Fenton, Douglas R.
See Lawrence H. Larsen, WAVES:Sept 74:197

Fenves, Steven J.
Scenario For A Third Computer Revolution In Structural Engineering, EC5:70:829
Scenario for a Third Computer Revolution in Structural Engineering, ST1:Jan 71:3:7812
TR:137:277
Dsc, with Rebi Ertas, ST7:July 69:1586:6644, of "Multiple Configuration Analysis of Structures", ST11:Nov 68:2581:6220
See Dennis R. Lagerquist, EM3:June 69:695:6624
See Glenn A. Morris, EM4:Aug 69:937:6741
See Surendra K. Goel, EC5:70:763
See Glenn A. Morris, ST5:May 70:931:7293
See Surendra K. Goel, ST1:Jan 71:463:7839

Fenwick, R. C.
Mechanisms of Shear Resistance of Concrete Beams, with Thomas Paulay, ST10:Oct 68:2325:6167
Dsc: Anatol A. Eremin, ST7:July 69:1585:6644
Clo: ST1:Jan 70:135:6990
TR:135:748

Ferahian, Ramzi H.
Design for Prevention of Progressive Collapse, CE: Feb 72:66
TR:138:102
Dsc, ST7:July 69:1591:6644, of " Seismic Response of Single-Story Interaction Systems", ST11:Nov 68: 2597:6235
Dsc, ST5:May 70:991:7250, of "Effective Width of Steel Deck-Plate in Bridges", ST7:July 69:1459: 6673
Dsc, ST9:Sept 71:2443:8348, of "Influence of Soil Conditions on Building Damage Potential During Earthquakes", ST2:Feb 71:639:7909
Dsc, CE:Aug 72:68, on Report on Conference on 1971 San Fernando, Ca., Earthquake, CE:May 72: 58

Ferguson, Phil M.
Two-Way Slab System with Beams, CE:Aug 74:90
See Umakanta Behera, ST2:Feb 70:371:7103
See Umakanta Behera, ST7:July 70:1271:7419
See K. S. Rajagopalan, ST9:Sept 72:2097:9209
See Syed I. Husain, ST12:Dec 73:2495:10185

Fernandez, D. R.
Sports Palace for 1968 Olympic Games, CE:Oct 69: 45
TR:135:963

Fernandez, Jose I.
See Raymond J. Krizek, SM8:Aug 71:1069:8320
See James A. Cunningham, PES:72:I-1425

Fernandez, Pedro
See James N. Luthin, IR1:Mar 69:117:6446

Fernandez-Zuazo, Joaquin I.
Dsc, SM5:May 72:507:8860, of "Khazzan Dubai No. 1: Pile Design and Installation", SM10:Oct 71: 1415:8439

Fernelius, Wayne A.
Dsc, EI3:July 74:258:10633, of "Engineering Registration - Today and Tomorrow", PP4:Oct 73: 457:10079

Ferrara, Thomas C.
Public Participation in Urban Water Planning, with Karl M. Romstad and William K. Johnson, UP2: Dec 71:179:8585
Dsc: Robert L. McFall, UP1:Mar 73:122:9584
Dsc, with Nathan D. Meeks, PP4:Oct 73:543:10040, of "Upgrading Student Membership", PP1:Jan 73: 119:9508

Ferrari, Paul A.
See John G. Gonzales, CE:June 71:38

Ferraz Napoles Neto, A. D.
On The Standard Penetration Test in Test Borings (In Spanish), 4PCSM:71:II85

Ferre, Luis A., Gov.
Governor Ferre is '71 Hoover Medalist, CE:Feb 72: 55

Ferreira, Antonio
See S. Hale Lull, PO2:Nov 68:199:6247
See Ralph W. Gunwaldsen, CE:May 71:53

Ferrer, Luis
See August J. Durelli, EM4:Aug 70:407:7481

Ferreri, Michael G.
Improving Urban Bus Operations, TE3:Aug 70:319: 7465
TR:136:1105
Public Participation in Urban Transit Service, TE4: Nov 73:701:10121
TR:139:472

Fersht, Samuel N.
See J. Ian Collins, HY2:Mar 68:349:5831

Feuerstein, Donald L.
Primary Treatment Followed by Reverse Osmosis, with Tom H. Forrest, CWFE:Mar 71:179

Fewell, Richard
See Milan Spanovich, SM5:Sept 70:1808:7499
See Milan Spanovich, PISST:71:247

Fialkoff, David R.
See David M. Weiss, TE1:Feb 74:71:10369

Fialkow, Morris N.
Safe Limit Loading of Folded Plate Structures, ST10: Oct 72:2181:9249
TR:138:483

Dsc, EM6:Dec 72:1601:9390, of "Elastic-Plastic Analysis of Cylindrical Shells", EM1:Feb 72:47: 8717
Yield Line Analysis of Folded Plate Structures, ST12: Dec 68:2935:6306
  Dsc: Dong Woo Lee, ST11:Nov 69:2535:6867
  Clo: ST5:May 70:979:7250
  TR:135:884

Fickel, Hans H.
Concrete Column Design by AASHO Specifications, ST4:Apr 71:1187:8070
  Dsc: Robert H. Seay, ST9:Sept 71:2448:8348; C. N. Srinivasan, ST1:Jan 72:362:8623; Gibson Chi-Shun Kwei, ST1:Jan 72:365:8623
  Clo: ST7:July 72:1668:9003
  TR:137:591

Fiedler, David R.
See Fred C. Teitgen, CE:Nov 73:82

Fiehn, Arthur J.
Cooling Tower Applications in Power Cycle Design, PO1:Mar 69:55:6458
  TR:136:760

Field, Richard
Combined Sewer Overflows, CE:Feb 73:57
  TR:139:81
Water Pollution and Associated Effects from Street Salting, with Edmund J. Struzeski, Jr., Hugh E. Masters and Anthony N. Tafuri, EE2:Apr 74:459: 10473

Field, Walter G.
Effects of Density Ratio on Sedimentary Similitude, HY3:May 68:705:5948
  Dsc: John G. Herbertson, HY1:Jan 69:559:6323; Charles R. Neill, HY1:Jan 69:560:6323
  Clo: HY5:Sept 69:1735:6784
  TR:135:622

Fielding, David J.
Steel Frame Analysis and Connection Shear Deformation, with Wai F. Chen, ST1:Jan 73:1:9481
  TR:139:203
See Wai F. Chen, TB:73:II-15-365

Fiering, Myron B.
Economic Measure of Effect of Extreme Data, SA4: Aug 69:683:6720
  Dsc: Theodore G. Roefs, SA2:Apr 70:632:7190; Arthur J. Askew and William Wen-Gong Yeh, SA3:June 70:854:7313
  Clo: SA2:Apr 71:227:8013
  TR:13:49
Forecasts with Varying Reliability, SA3:May 69:629: 6638
  TR:135:28

Fietz, Trevor R.
Three-Dimensional Density Current, with Ian R. Wood, HY6:Nov 67:1:5549
  Dsc: David I. H. Barr and James J. Sharp, HY6: Nov 68:1537:6200; Nikolai P. Kulesh, HY6:Nov 68:1542:6200
  Clo: HY6:Nov 69:2141:6866
  TR:135:375
Dsc, HY5:May 73:855:9689, of "Hydraulic Network Analysis Using Linear Theory", HY7:July 72:1157: 9031
Dsc, HY11:Nov 73:2136:10109, of "Efficient Algorithm For Distribution Networks", HY11:Nov 72:1911:9336
Dsc, HY8:Aug 74:1165:10696, of "Enhancement of Convergence of Pipe Network Solutions", HY7:July 73:1057:9852

Fiho, Fernando Venancio
Dsc, ST11:Nov 70:2534:7644, of "Efficient Solutions for Linear Matrix Equations", ST1:Jan 70:49:7007

Finch, Kaye
Educational TV Film Spots for Engineering, with Frederick O. Leidel and James R. Villemonte, CEE:Feb 74:1-1015

Finch, Stanley P.
Memoir of, TR:138:624

Findakly, Hani
Stochastic Model for Analysis of Pavement Systems, with Fred Moavenzadeh and Joseph Soussou, TE1: Feb 74:57:10358

Findlay, Stuart A.
See Andrew W. Irwin, ST9:Sept 74:1978:10772

Fine, David S.
See Kuo-Kuang Chen, ST12:Dec 74:2523:10977

Fine, Hyman J.
Dsc, with Frank T. Wooton, Jr., IR4:Dec 69:603: 6930, of "Competition for Recreation Water in California", IR3:Sept 68:295:6109

Fink, Leo E.
Dsc, HY5:May 73:850:9689, of "Turbulent Compound Annular Shear Layers", HY7:July 72: 1101:9009

Finley, Ewell W.
Training Minorities for Construction Work, CE:Mar 72:76
  TR:138:161

Finn, Fred N.
See William Ronald Hudson, TE3:Aug 69:505:6740

Finn, W. D. Liam
Applications of Limit Plasticity in Soil Mechanics, SM5:Sept 67:101:5424
  Dsc: Wai F. Chen, SM2:Mar 68:608:5827; Hashim H. Hamzawi, SM3:May 68:795:5922; John T. Christian, SM3:May 68:796:5922; Chin Fung Kee, SM3:May 68:798:5922; Lawrence A. Larkin, SM5:Sept 68:1190:6089; Brian Le Lievre, SM5:Sept 68:1193:6089; George C. Y. Hu, SM5:Sept 68:1194:6089; James Graham, SM2:Mar 69:630:6429
  TR:135:338
Effect of Strain History on Liquefaction of Sand, with Peter L. Bransby and Dennison J. Pickering, SM6:Nov 70:1917:7670
  Dsc: Jaroslav Feda, SM6:June 71:945:8158; Sergey Steuerman, SM6:June 71:950:8158
  Clo: SM2:Feb 72:221:8683
  TR:137:187
Finite-Element Analysis of Seepage Through Dams, SM6:Nov 67:41:5552
  Dsc: Robert Chung-Yi Lo and C. C. Tillman, Jr., SM1:Jan 69:342:6324; Hanna M. Makhlouf, SM1:Jan 69:345:6324
  TR:135:317
Sand Liquefaction In Triaxial and Simple Shear Tests, with Dennison J. Pickering and Peter L. Bransby, SM4:Apr 71:639:8039
  Dsc: Kenji Ishihara and Bang-il Li, SM1:Jan 72: 119:8622; Yoshiaki Yoshimi, SM1:Jan 72:122: 8622
  TR:137:938
Volume Changes in Triaxial and Plane Strain Tests, with Neil H. Wade and Kenneth L. Lee, SM6:Nov 67:297:5611
  Dsc: Branko Ladanyi, SM1:Jan 69:378:6324
  TR:135:517
Dsc, with Peter M. Byrne and F. Bucher, SM5:May 71:808:8083, of "Plane Strain Consolidation by Finite Elements", SM4:July 70:1435:7437

Finney, Roy A.
Memoir of, TR:135:1125

Fintel, Mark
Creep, Shrinkage and Temperature Effects, Theme Report, TB:73:III-25-741

Quake Lesson from Managua: Revise Concrete Building Design, CE:Aug 73:60
Errata: CE:Sept 73:29
TR:139:357

Finzi, Leo
Elastic Analysis and Design, Summary Report, TB: 73:II-14-247

Finzi, Massimo
Dsc, ST:Oct 70:2237:7570, of "How Safe Are Your Towers?", ST1:Jan 70:1:6994

Fiorato, Anthony E.
Dimensional Tolerance in Concrete, with Sven Sahlin, TB:73:Ib-9-893

Fiore, Joseph V.
See Martin S. Hertzendorf, SA2:Apr 72:379:8821

Firmage, Allen
Europe's Dramatic Cable-Stayed Bridges, CE:Sept 74: 107

Fischer, Hugo B.
A Numerical Model of Estuarine Pollutant Transport, CE13:72:III-2255
Dsc, HY4:Apr 70:1096:7189, of "Dispersivity Tensor for Uniform Channel Flow", HY5:Sept 69:1699: 6794
Dsc, HY6:June 71:875:8155, of " Dispersion Prediction from Current Meters", HY8:Aug 70: 1667:7464
Dsc, HY12:Dec 72:2245:9391, of "Repeatability in Estuarine Hydraulic Model", HY4:Apr 72:631:8832
Dsc, HY5:May 74:708:10505, of "Minimum Length of Salt Intrusion in Estuaries", HY9:Sept 73:1475: 10010
See Edward R. Holley, HY8:Aug 70:1691:7488
See James Weil, HYB:Aug 73:189
See James Weil, HY7:July 74:951:10674

Fischer, John
Planning Cities for the Year 2000, CE:Sept 70:54
TR:136:703

Fischer, Joseph A.
Settlement of a Large Mat on Sand, with James T. Dette and Harcharan Singh, PES:72:I-997
See Ian Watson, EPCE:Aug 74:557

Fischer, R. L.
See Kuppusamy Thirumalai, RM13:72:727

Fischer, William A.
Dsc, IR3:Sept 72:505:9157, of "Assessing Social Consequences of Water Deficiencies", IR4:Dec 71: 547:8566

Fisher, Charles A.
Dsc, Engineer Unionization, CE:Mar 74:118

Fisher, Charles H.
Mining The Ocean For Beach Sand, CEO-II:70:717

Fisher, Gordon P.
See Tamirisa V.S.R. Apparao, ST5:May 69:965:6576

Fisher, John S.
Analytical Modeling of Estuarine Circulation, with John D. Ditmars and Donald R.F. Harleman, CE13:72:III-2297
Time Dependent Shear Stress Beneath a Shoaling Wave, with Bruce Johnson and Michael E. McCormick, WAVES:Sept 74:799

Fisher, John W.
High Cycle Fatigue of Connections and Details, State-of-Art Report 4, with T. R. Gurney, TB:73:II-18-757
Large Bolted and Riveted Shingle Splices, with Noriaki Yoshida, ST9:Sept 70:1903:7534
TR:136:1049
See Geoffrey L. Kulak, ST9:Sept 69:1873:6767
See James H. Lee, ST11:Nov 69:2371:6889
See J. Hartley Daniels, ST3:Mar 70:671:7173
See Manfred A. Hirt, ST7:July 71:1897:8238
See Edward H. Power, ST9:Sept 72:1923:9200
See Karl H. Frank, ST1:Jan 73:221:9462

Fisher, Joseph L.
Water Resources in the Future: Directions and Prospects, PP3:July 72:343:9040
Dsc: Adolph J. Ackerman, PP3:July 73:408:9824
Clo: EI2:Apr 74:173:10438
TR:139:30

Fisher, Norman W.F.
Dsc, TE3:Aug 73:683:9896, of "Cost Estimating Model for Rural Interstate Highways", TE3:Aug 72:531:9138

Fisher, Paul R.
Foundation Construction Problems at Corps of Engineers Projects, with John C. Bowman, Jr. and Benjamin I. Kelly, Jr., EFFD:Mar 74:121

Fisher, Suzy
Crane Safety, CE:Feb 72:61
Dsc: Lee W. Crandall, CE:June 72:73
TR:138:93
The Cross-Florida Barge Canal: A Lesson in Ecology, CE:Apr 71:44
TR:137:275
Minority Training Programs Lurch Ahead, CE:Sept 71:68
TR:137:567

Fisk, Edward R.
Closing the Last Unlicensed Gap in the Construction Process, CE:Sept 74:96

Fitch, Norris R.
See Arthur V. Dienhart, PO3:June 70:299:7322

Fitch, W. N.
See George K. Young, Jr., SA5:Oct 68:829:6147

Fithian, William Roberts
Memoir of, TR:136:1346

Fitzgerald, Patrick D.
Water Requirements of Rostered Irrigation Schemes, with Gregory C. Arnold, IR1:Mar 72:91:8767
TR:138:131

Fitzpatrick, Edward B., Jr.
Constructing an Ocean Outfall, with Wallace J. Beckman, CE:Sept 74:83

FitzPatrick, J. B.
See Johan A. Zwamborn, 12CEC:71:975

Fitzsimmons, D. W.
See J. R. Busch, IRS:Sept 72:45

FitzSimons, Neal
The American Engineer's Nateria Universalis, CE: June 70:81
Benjamin Prescott and the Hampshire Machine, CE: Dec 70:68
A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, BDACE: 72, 163pp.
TR:138:137
Civil Engineering History: An Appraisal, PP3:July 73:327:9875
Errata: EI3:July 74:256:10633
TR:139:324
Early American Tunnels: The First Fifty Years, CE: July 70:49
The Elder Latrobe and the European Link, CE:Jan 70:82
Ferdinand Hassler: The Great Triangulator, CE:Mar 71:87
Gallatins's Report: A Transportation Plan For The United States, CE:Apr 70:76

The History and Philosophy of Tall Buildings, State-of-Art Report 1, TB:73:Ia-1-41
L'heritage Francais, CE:May 71:85
Pollution Fighters: Rudolph Hering, CE:Oct 71:100
Structural Failures: Modes, Causes, Responsibilities, STF:73, 111pp.
 TR:139:336
Theme Report, Committee on the Survey of Tall Buildings, TB:73:C-AC14-87
Wanted: One Civil Engineer, CE:Jan 71:52

Flaate, Kaare S.
See Roy E. Olson, SM6:Nov 67:279:5604

Flack, J. Ernest
Nature of and Need for Interdisciplinary Attacks on Problems of Urban Water Management, UWRM:71:106

Flajser, Steven
Maritime Extensions of Trans-Alaska Pipeline, with Edward Wenk, Jr., PP2:Apr 73:245:9665
 TR:139:248

Flammer, Gordon H.
Closed Conduit to Open Channel Stilling Basin, with Gaylord V. Skogerboe and Chi-Yuan Wei, IR1:Mar 70:1:7124
 TR:136:424
Free Surface, Velocity Gradient Flow Past Hemisphere, with J. Paul Tullis and Earl S. Mason, HY7:July 70:1485:7418
 Dsc: John A. Roberson, HY4:Apr 71:618:8012
 Clo: HY12:Dec 71:2084:8552
 TR:137:92

Flannery, James J.
The Economic Aspects of Water Pollution Control, WQEF:Mar 70:57

Flaxman, Elliott M.
Predicting Sediment Yield in Western United States, HY12:Dec 72:2073:9432
 Dsc: Kenneth G. Renard and J. Roger Simanton, HY9:Sept 73:1647:9961; Stafford C. Happ, HY10:Oct 73:1890:10037; Vijay P. Singh, HY10:Oct 73:1891:10037; Vaclav Kolar, HY10:Oct 73:1894:10037
 Clo: HY5:May 74:693:10505
 TR:139:149

Flay, George F., Jr.
Construction of the Foundations and Towers of the Brooklyn Bridge, CEWAU:74:36
New ASCE Officers Installed in Kansas City: 1974, CE:Oct 74:92

Flemer, David A.
Biological Effects of Spoil Disposal in Chesapeake Bay, with W. L. Dovel, H. T. Pfitzenmeyer and D. E. Ritchie, SA4:Aug 68:683:6081
 TR:135:701

Fleming, George
Flood Frequency Estimating Techniques for Small Watersheds, with Delbert D. Franz, HY9:Sept 71:1441:8383
 Dsc: Alan M. Lumb, HY2:Feb 72:408:8681; Manuel A. Benson, HY2:Feb 72:408:8681; Chester C. Kisiel, HY9:Sept 72:1720:9156
 Clo: HY4:Apr 73:678:9637
 TR:138:23
Hydrologic Simulation Procedures As Applied To Vegetation Management, SEA:70:269
Particle Size of River Sediments, with Thomas Poodle, HY2:Feb 69:431:7068
 TR:136:482
Sediment Balance of Clyde Estuary, HY11:Nov 70:2219:7676
 TR:136:1188
Simulation of Water Yield from Devegetated Basins, IR2:June 71:249:8175
 TR:137:408
Dsc, HY1:Jan 69:532:6988, of "Field Test of an X-ray Sediment-Construction Gage", HY2:Mar 68:515:5868
Dsc, HY4:Apr 70:1075:7189, of "Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: A. Fluvial Sediment, Task Committee on Preparation of the Sedimentation Manual", HY5:Sept 69:1477:6756
Dsc, HY4:Apr 70:1076:7189, of "Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: F. Laboratory Procedures, Task Committee on Preparation of the Sedimentation Manual", HY5:Sept 69:1515:6757
Dsc, HY8:Aug 70:1760:7439, of "Sediment Yeilds from Central Colorado Snow Zone", HY1:Jan 70:87:7006
Dsc, HY9:Sept 70:1908:7497, of "Real-Time Computer Control of Urban Runoff", HY1:Jan 70:153:7028
Dsc, HY2:Feb 71:376:7863, of "Sedimentation Engineering, Chapter IV: Sediment Sources and Sediment Yields, Task Committee on Preparation of Manual on Sedimentation", HY6:June 70:1283:7337
Dsc, HY3:Mar 71:475:7940, of "Unsteady Flow in Channel of Variable Cross Section", HY10:Oct 70:1927:7583
Dsc, HY9:Sept 71:1573:8345, of "Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division", HY4:Apr 71:523:8076

Fleming, John F.
See Walter Podolny, Jr., ST9:Sept 72:2079:9201

Fleming, Paul J.
Dsc, EE5:Oct 74:1194:10836, of "Recommendations for Environmental Engineering Education", EE2:Apr 74:243:10459
See DeFro Tossey, SA1:Feb 70:75:7106

Flesher, H. L.
Banquet Remarks, TB:73:C-514

Fletcher, David Q.
Elastic Foundation Representation of Continuum, with Leonard R. Herrmann, EM1:Feb 71:95:7932
 TR:137:129

Fletcher, Edward Hamilton
Random Walk Model of Ideal Granular Mass, SM10:Oct 71:1379:8444
 TR:137:1032

Fling, Russell S.
Elastic Analysis-Strength of Members and Connections, Theme Report, TB:73:III-21-149
Repair of 7-Story Bearing Wall, CO1:July 69:39:6669
 TR:135:242

Flint, Norman K.
See James V. Hamel, SM2:Feb 72:167:8731

Florez, C. Gonzalez
See J. Laginha Serafim, ECCD:72:311

Florman, Samuel C.
Anti-Technology--The New Myth, CE:Jan 72:68
 Dsc: Burr L. McCorkle, CE:Apr 72:49; Sidney Zecher, CE:Apr 72:49; Don Johnstone, CE:Apr 72:57; Kurt V. Leininger, CE:Apr 72:59; Richard C. Huning, CE:Apr 72:59; William G.G. Blakney, CE:Apr 72:59; Charles B. Notess, CE:May 72:40; Leon Winters, CE:Apr 73:81
 TR:138:53
Creativity and the Anti-Technologists, CEWAU:74:18
The Engineer and Pollution Control - Some Objections to the Simplistic Approach, PP3:July 72:383:9043
 TR:138:418

"The Third Sector," by Theodore Levitt (Book Review), CE:June 74:28

Flower, William R.
Analysis of Space Truss as Equivalent Plate, with Lewis C. Schmidt, ST12:Dec 71:2777:8569
Dsc: John D. Renton, ST10:Oct 72:2318:9227
Clo: ST4:Apr 73:789:9640
TR:138:38

Flynn, William A.
See Sergey Steuerman, SM6:Nov 70:2133:7643
See Sergey Steuerman, PISST:71:196

Focht, John A., Jr.
Soil-Structure Interaction for Tall Buildings, TB:73:Ia-11-1008
See Bramlette McClelland, SM6:Nov 69:1491:6913

Foehner, Olin H.
Dsc, HY4:Apr 72:723:8799, of "Hydrologic Consequences of Rainfall Augmentation", HY7:July 71:1065:8232

Foess, Gerald W.
Dsc, EE1:Feb 73:104:9521, of "Filtrability Study on Secondary Effluent Filtration", SA3:June 72:505:8965

Fogel, Martin M.
See Chester C. Kisiel, HY10:Oct 71:1699:8455

Fogg, Charles H.
See V. Shannon, PO2:Mar 71:395:7948

Fok, Yu-Si
Infiltration Equation in Exponential Forms, IR4:Dec 67:125:5686
Dsc: Frantisek Dolezal and Jaromir Cisler, IR1:Mar 69:223:6428
Clo: IR4:Dec 69:586:6930
TR:135:413
One-Dimensional Infiltration into Layered Soils, IR2:June 70:121:7343
Dsc: V. R. Krishna Murthy, IR2:Mar 71:324:8156
Clo: IR1:Mar 72:137:8750
TR:137:30
Subsurface Irrigation System Analysis and Design, with Lyman S. Willardson, IR3:Sept 71:449:8380
Clo: IR3:Sept 72:504:9157
TR:137:732
Dsc, IR4:Dec 68:537:6261, of "Water Infiltration in Hawaiian Sugarcane Furrows", IR4:Dec 67:81:5669
Dsc, IR4:Dec 69:623:6930, of "Surface Irrigation Hydraulics and Kinematics", IR4:Dec 68:419:6284
Dsc, IR4:Dec 70:492:7712, of "Infiltration of Water into Nonuniform Soil", IR4:Dec 69:451:6937

Folayan, Joseph I.
Decision Theory Applied to Settlement Predictions, with Kaare Hoeg and Jack R. Benjamin, SM4:July 70:1127:7390
Dsc: Emilio Rosenblueth, SM1:Jan 71:275:7785; John A. Burnes, SM2:Feb 71:509:7866
Clo: SM9:Sept 71:1342:8347
TR:136:1134

Foley, E. P.
Dsc, CE:Jan 71:64, on Lindenwold Line: A Model for Rail Rapid Transit, CE:Sept 70:90

Foley, James W.
Multilevel Control of Multipollutant System, with Yacov Y. Haimes, EE3:June 73:253:9795
TR:139:171

Folie, G. Michael
Bending of Clamped Orthotropic Sandwich Plates, EM3:June 70:243:7340
Dsc: Robert Schmidt, EM1:Feb 71:132:7862
TR:137:13
Solution of Differential Equations in Structural Mechanics, TN: EM6:Dec 70:1297:7715
Stiffness Matrix for Sandwich Folded Plates, ST2:Feb 71:603:7925
TR:137:883

Folkman, Yair
Filtration of Chlorella Through Dune-Sand, with Alberto M. Wachs, SA3:June 70:675:7332
Dsc: Kenneth J. Ives, SA2:Apr 71:231:8013

Folsom, David
See Michael E. McCormick, WW4:Nov 73:485:10179

Fondahl, John W.
See James Douglas, CO1:July 69:142:6640

Fong, Samuel
Mechanical Equipment at Edmonston Pumping Plant, CO3:Sept 74:279:10794

Fonken, David W.
See Delmar D. Fangmeier, IR3:Sept 71:532:8346

Font, Juan B.
Damage Functions for a Rubble-mound Breakwater Under the Effect of Swells, 12CEC:71:1567
Surface Oscillations in a Water Tank Caused by a Submerged Jet, with Omar Azpurua and Flora Aranguren, 12CEC:71:2243
Dsc, WW2:May 70:568:7252, of "Damage Function of Rubble-Mound Breakwaters", WW3:Aug 69:345:6743
Dsc, WW1:Feb 72:110:8686, of "Irregular Wave Action on Rubble-Mound Breakwaters", WW2:May 71:279:8114
Dsc, WW1:Feb 72:125:8686, of "Armor Stability of Overtopped Breakwater", WW2:May 71:341:8138

Foott, Roger
See Charles C. Ladd, GT7:July 74:763:10664

Ford, Harry W.
Sludges and Associated Problems Involving Agricultural Drains in Florida Wetlands, SEA:70:15

Ford, John L.
Computer Mapped Hologram Images in Stress Analysis, with Arthur P. Boresi, EM2:Apr 74:173:10476

Fordham, John W.
See Vulli L. Gupta, HY6:June 72:1049:8969

Fordyce, Phil
Modern Design of Concrete Pavements, with W. A. Yrjanson, TE3:Aug 69:407:6726
Errata: TE3:Aug 70:436:7440
TR:135:1046

Foree, Edward G.
Carbon and Nitrogen as Regulators of Algal Growth, with Charles R. Scroggin, EE5:Oct 73:639:10043
Dsc: Darrell L. King, EE3:June 74:780:10564; Raymond W. Regan, EE4:Aug 74:1037:10693
TR:139:323

Foreman, Albert
Delays and Interferences, CEWAU:74:163

Forester, John
Planning for Cyclists as They See Themselves - Instead of as Motorists See Them, BP73:Dec 73:315

Forney, R. M.
See Omar H. Shemdin, 12CEC:71:2225

Forrest, J. B.
Field Studies of Response of Peat to Plate Loading, with I. C. MacFarlane, SM4:July 69:949:6652
Dsc: Victor J. Lo Pinto, SM1:Jan 70:361:6989; Icarahy DaSilveira, SM3:May 70:1056:7249
Clo: SM6:Nov 70:2130:7643
TR:136:146

Forrest, Tom H.
See Milton Spiegel, SA5:Oct 69:803:6807
See Donald L. Feuerstein, CWFE:Mar 71:179
See Walter J. Weber, Jr., CWFE:Mar 71:183
See Vinton W. Bacon, CWFE:Mar 71:185

Forrester, Kevin
Dsc, ST1:Jan 72:378:8623, of "In-Plane Bending and Buckling of Arches", ST5:May 71:1575:8130

Forsberg, Clarence R.
Dsc, SA6:Dec 72:1058:9393, of "Oxygen Depletion in Ice Covered River", SA2:Apr 72:341:8841

Forshay, Raymond Leroy
Memoir of, TR:136:1347

Forsyth, Raymond A.
Recent Developments in Earthwork Instrumentation, with Kenneth Jackura, EFSE:Aug 74:254
Dsc, EFSE:Aug 74:371, of "Benefits of Tunnel Measurements", EFSE:Aug 74:366

Forsyth, Raymond H.
See Travis Smith, CE:Aug 69:62
See Travis Smith, SM3:Mar 71:541:8004

Fortey, Joseph W.
Flow-Induced Vibrations of Trashrack Bars, with Robert F. Tiry, CE:May 72:44
TR:138:230
Thermal Behavior of a 1000 Foot Steel Chimney Liner, with Raymond R. Funk, EPCE:Aug 74:161

Foschi, Ricardo O.
Point-Matching Analysis of Curved Timber Beams, ST1:Jan 70:35:6998
TR:136:522
Radial Stresses in Curved Timber Beams, with Selwyn P. Fox, ST10:Oct 70:1997:7582
TR:137:162

Foster, David H.
See Malay Chaudhuri, SA1:Feb 71:118:7865

Foster, Edward Terence, Jr.
Model for Nonlinear Dynamics of Offshore Towers, EM1:Feb 70:41:7093
Errata: EM6:Dec 70:1273:7710
TR:136:513

Foster, Eugene L.
Engineering Measurements, EFSE:Aug 74:23

Foster, Herbert B., Jr.
Rationale of Standards for Use of Reclaimed Water, with William F. Jopling, SA3:June 69:503:6609
TR:136:767

Foster, Joseph A.
Integrating the Airport into the Community Plan, TE2:May 69:279:6530
TR:135:735

Foster, Minard I.
Broad Scope of Navigation's Economic Impact, WW1:Feb 69:23:6389
TR:135:398
Dsc, TE3:Aug 71:576:8268, of "Economic Location of Locks", TE1:Feb 69:77:6397

Foster, Richard L.
Effect of Unit Weight and Slope on Erosion, with L. Glen Martin, IR4:Dec 69:551:6984
Dsc: Robert R. Faddick, IR3:Sept 70:372:7498
Clo: IR2:June 71:323:8156
TR:136:348

Foster, William S.
Dsc, CE:June 70:45, on Civil Engineering Today: A Profession in Crisis-Part II, CE:Feb 70:51

Foucher, Keith A.
Commentary, CEWAU:74:281

Fountain, R. S.
Specifications and Design Relations, with William H. Munse and R. D. Sunbury, ST12:Dec 68:2751:6291
Dsc: Charles T. Morrow, WW3:Aug 69:428:6709
TR:135:875

Fourcriat, J.
See J. Brozzetti, TB:73:II-16-415

Fouss, L.
See Lyman S. Willardson, IR4:Dec 68:455:6300

Fowler, Alvin G.
See Robert Epp, HY1:Jan 70:43:7002

Fowler, D. David
See D. S. Porter, Jr., ST3:Mar 69:506:6430

Fowler, David W.
Design of Laterally Unsupported Timber Beams, ST3: Mar 71:881:7995
Dsc: Melvin W. Jackson, ST10:Oct 71:2624:8411; Jack Longworth, ST10:Oct 71:2625:8411
Clo: ST5:May 72:1189:8861
TR:137:536
Investigation of Polymer-Impregnated Brick Masonry, with Thomas J. Fraley, ST1:Jan 74:1: 10278
See Dwight E. Urelius, ST8:Aug 74:1627:10747

Fowler, John P., II
Public Participation in the I-66 Corridor Transportation Alternates Study, UT73:May 73:11

Fowler, Lloyd C.
Considerations of Pipeline Tension Tie Problems, with Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
TR:138:573

Fox, Arthur J., Jr.
Arthur J. Fox, Jr. Nominated for ASCE President-Elect, CE:July 74:94
The Last Word, CEE:Feb 74:2-285
Making Civil Engineering Relevant I, CEE:Feb 74:1-1
Making Civil Engineering Relevant II - Conference Keynote, CEE:Feb 74:2-3
New ASCE Officers Installed in Kansas City: 1974, CE:Oct 74:92
Summary of the Conference, ECCD:72:521
Unfinished Business, CE:Mar 71:57
TR:137:224

Fox, Denys A.
Dsc, SM5:Sept 70:1823:7499, of "Problems in Design and Installation of Offshore Piles", SM6:Nov 69: 1491:6913

Fox, Douglas G.
Dsc, SA5:Oct 71:766:8409, of "Finite-Difference Convection Errors", SA6:Dec 70:1361:7744

Fox, George A.
Subsurface Construction Contracts—A Contractor's View, CO2:June 74:153:10608
Dsc: Robert F. Borg, CO4:Dec 74:658:10970

Fox, George E.
Dsc, with Philip A. Rice, SA6:Dec 69:1191:6931, of "Dynamic Model of the Anaerobic Digestion Process", SA1:Feb 69:95:6418

Fox, Gerard F.
Tall Buildings Bibliography, TB:73:C-AC10-39
See Richard N. White, CEE:Feb 74:1-787

Fox, Irving K.
Integrating All Aspects of Regional Water Systems, HY4:Apr 73:599:9662
TR:139:260
See Anthony H.J. Dorcey, EE1:Feb 74:141:10326

Fox, Kirk H.
Use of Shotcrete from the Standpoint of the Contractor, SUSS:July 73:22

Fox, Selwyn P.
See Ricardo O. Foschi, ST10:Oct 70:1997:7582

Fox, Vincent Scott
Deep Water Contruction Problems in Offshore Terminal, CE:June 70:63
TR:136:469

Fox & Associates
Central Square, TB:73:C-P-424

Fraley, Thomas J.
See David W. Fowler, ST1:Jan 74:1:10278

Frampton, Ralph E.
See Charles G. Culver, ST2:Feb 70:245:7079

France, Peter W.
Numerical Analysis of Free Surface Seepage Problems, with Chandrakant J. Parekh, John C. Peters and Cedric Taylor, IR1:Mar 71:165:7959
Dsc: Lewis T. Isaacs and K. G. Mills, IR1:Mar 72:150:8750
Clo: IR4:Dec 72:597:9392
TR:137:928

Franchi, Alberto
See Osvaldo De Donato, EM1:Feb 74:126:10303

Franco, John J.
Effects of Water Temperature on Bed-Load Movement, WW3:Aug 68:343:6083
Dsc: M. Gamal Mostafa, WW2:May 69:244:6528; Brent D. Taylor and Vito A. Vanoni, WW2:May 69:247:6528; Adel M. Kamel, WW2:May 69:255:6528
Clo: WW1:Feb 70:152:7049
TR:135:365
Dsc, TE4:Nov 69:700:6868, of "Economic Location of Locks", TE1:Feb 69:77:6397
Dsc, HY11:Nov 71:1913:8483, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams", HY1:Jan 71:101:7786

Francois, Francis B
Urban Water Resources - The Politics of Management, PP3:July 73:365:9879
TR:139:363

Frank, Karl H.
Dsc, with John W. Fisher, ST1:Jan 73:221:9462, of "Fatigue of Cover Plated Beams Under Varying Loads", ST4:Apr 72:915:8855

Franklin, Arley G.
Compaction of Slightly Organic Soils, with Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873
TR:139:367
See Raymond J. Krizek, IR3:Sept 69:409:6785

Franks, James W.
Weather Modification for Alaska Fire Control, OIDS:72:423

Franques, J. Thomas
Two-Dimensional Analysis of Backwater at Bridges, with Dannial W. Yannitell, HY3:Mar 74:379:10403

Franz, Delbert D.
Hourly Rainfall Synthesis for a Network, HY9:Sept 71:1349:8375
Dsc: Vulli L. Gupta, HY1:Jan 72:304:8620
Clo: HY8:Aug 72:1459:9076
TR:137:1030
Dsc, HY9:Sept 70:1922:7497, of "Decision Criteria for Using Stochastic Hydrology", HY4:Apr 70:911:7209
Dsc, HY9:Sept 71:1552:8345, of "Implicit Flood Routing in Natural Channels", HY12:Dec 70:2481:7773
Dsc, HY3:Mar 72:569:8749, of "General Hydrologic System Model", HY6:June 71:791:8176
See George Fleming, HY9:Sept 71:1441:8383

Franz, Dieter
See D. A. Polychrone, CE:Nov 72:44

Franzini, Joseph B.
See Paul O. Reimer, UP2:Dec 71:217:8600

Franzoy, C. Eugene
See Marvin E. Jensen, IR1:Mar 70:25:7131

Frasier, Gary W.
See Lloyd E. Myers, IR3:Sept 67:79:5413
See Lloyd E. Myers, IR1:Mar 69:43:6436
See Lloyd E. Myers, IR4:Dec 70:425:7741
See Keith R. Cooley, IAWM:72:27

Frazee, Cheryl
Young Engineers-Why Do They Change Jobs?, CE:May 70:69

Frazier, Arthur H.
Dr. Santorio's Water Current Meter, Circa 1610, HY1:Jan 69:249:6351
Dsc: Fernando Milanese, HY6:Nov 69:2189:6866
Clo: HY6:June 70:1354:7310
Robert Hooke's Water Current Meter, Circa 1663, HY1:Jan 69:439:6369
TR:135:149

Frazier, John W.
Engineering Registration-License for What?, PP1:Sept 70:103:7562
Dsc: Lloyd T. Cheney, PP1:Oct 71:232:8408
A Kansas County Replaced Old Bridges Economically, CE:Jan 70:68
TR:136:68
Dsc, ST11:Nov 70:2546:7644, of "Bridge Deck Protection and Resurfacing", ST4:Apr 70:791:7217

Fread, Danny L.
Transient Hydraulic Simulation of Breached Earth Dams, with Terence E. Harbaugh, HY1:Jan 73:139:9466
TR:139:158
Dsc, HY7:July 71:1156:8223, of "Implicit Flood Routing in Natural Channels", HY12:Dec 70:2481:7773
Dsc, HY12:Dec 74:1858:10974, of "Transient Control in Lower Sacramento River", HY3:Mar 74:405:10418

Frederick, Daniel
See Wilton W. King, EM5:Oct 68:1215:6188
See Charles W. Pryor, Jr., EM6:Dec 70:967:7760
See S. V. Kulkarni, EM3:June 73:537:9808

Fredericks, Rodney G.
See Choule J. Sonu, WAVES:Sept 74:621

Frederiksen, Harald D.
Design of California Adequct, IR2:June 69:307:6614
TR:135:32
Wave Attenuation by Fluid Filled Bags, WW1:Feb 71:73:7874
Errata: WW1:Feb 72:100:8686
TR:137:189

Fredrich, Augustine J.
Public Policy: Who Speaks for the Engineer, EI1:Jan 74:1:10266
Dsc, "Unwilling Victims", CE:June 74:22
Dsc, with Lewis G. Hulman, HY3:May 69:1087:6524, of "Economic Derivation of Reservoir Operating Rules", HY5:Sept 68:1217:6111
Dsc, CE:June 70:46, on Civil Engineering Today: A Profession in Crisis-Part II, CE:Feb 70:51

Freedman, Sidney
Specifying Structural Concrete for Buildings, CE:Nov 73:68
TR:139:505

Freel, Wilfred I.
Memoir of, TR:137:1059

Freeman, Clarence N.
See Leonard A. Lovell, PO1:May 68:67:5946

Freeme, Charles R.
See Michael E. Szendrei, SM6:Nov 70:2099:7709

Freiermuth, John M.
Book Review: Traffic Engineering, Theory And Practice, CE:Dec 73:24
Now That You Have One, What Have You Done For Your Bikeway Lately?, BP73:Dec 73:151

Freitag, Dean R.
See Klaus W. Wiendieck, CEO-II:70:327

French, John L.
Nonenlarged Box Culvert Inlets, HY6:Nov 69:2115:6928
TR:136:353
Dsc, HY1:Jan 69:507:6323, of "Are Individual Current-Meter Ratings Necessary", HY2:Mar 68:391:5848

French, Jonathan A.
Dsc, HY4:Apr 71:635:8012, of "Water Wave Pressure on Horizontal Plate", HY10:Oct 70:1997:7629
Dsc, HY4:Apr 72:732:8799, of "Manifold Flow in Subirrigation Pipes", HY10:Oct 71:1737:8477
Dsc, EE3:June 73:392:9758, of "Optimal Design of Wastewater Treatment Systems by Enumeration", SA6:Dec 72:833:9403

French, William D.
The Reminiscences of John B. Jervis, Engineer of the Old Croton, Edited by Neil Fitzsimons (Book Review), CE:July 72:8
Staff Men Named Assistant Secretaries, CE:Dec 72:71

Frenette, Marcel
See G. Desaulniers, HY11:Nov 70:2380:7641

Freskakis, George N.
Asymmetrical Buckling of Imperfect Spherical Shells, with Nicholas F. Morris, EM5:Oct 72:1115:9247
TR:138:471

Fresko, Davit
Analysis of Need for Goods Movement Forecasts, with Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017
TR:138:87

Freymuth, Peter
Dsc, EM6:Dec 73:1305:10181, of "Turbulence Effect on Wall Pressure Fluctuations", EM6:Dec 72:1365:9445

Freyre, Art E.
Forms for Concrete Dams, ECCD:72:265

Friberg, Bengt F.
Dsc, ST5:May 71:1637:8084, of "Shrinkage and Shrinkage Restraints in Concrete Pavements", ST7:July 70:1333:7402

Fricker, A.
Dsc, with F. Sawko, ST7:July 73:1654:9826, of "Stiffness Analysis of Grids Including Warping", ST7:July 72:1511:9022

Friedland, Helen
See Ralph Stone, SA3:June 70:691:7336

Friedland, Lewis
See William R. Spillers, ST10:Oct 72:2155:9245

Friedman, Warren
Commentary, CEWAU:74:117

Friestad, Ronald L.
See John D. Smart, RM13:72:643

Frinco, Paul H.
See Khalid Mahmood, HY3:Mar 72:571:8749

Frisby,, Thomas N., Sr.
Risk Management, CE:May 74:94

Frobenius, Peter
See Edward W. Peterson, CE:Oct 71:72
See Edward W. Peterson, SU1:Sept 73:21:10008

Fromme, G. A. W.
See Johan A. Zwamborn, 12CEC:71:975

Frost, Raymond J.
Guidelines for Compaction Control of Fill, TN: SM12:Dec 73:1189:10189
Dsc, SM12:Dec 72:1411:9394, of "Evaluation of Properties of Rockfill Materials", SM1:Jan 72:95:8672
Dsc, SM9:Sept 73:723:9963, of "Lateritic Gravel Evaluation For Road Construction", SM11:Nov 72:1245:9375

Frost, Ronald W.
Fatigue Tests of Beams with Rectangular Web Holes, with Robert E. Leffler, SM2:Feb 71:509:7913
TR:137:377

Fruin, John J.
Environmental Factors in Passenger Terminal Design, TE1:Feb 72:89:8734
TR:138:71
Goods Movement on Urban Transit Systems, TE3:Aug 72:617:9139
TR:138:411
Pedestrian System Planning for High Rise Buildings, TE3:Aug 74:675:10741
Pedway Systems in Urban Centers, CE:Sept 73:63
TR:139:385
Service and Capacity of People Mover Systems, TE3:Aug 73:489:9942
TR:139:419
Traffic and Service Characteristics of Pedestrians in Terminals, MTI:May 72:91

Frunza, Radu
See Iosif Gruner, TB:73:III-25-827

Fruth, L. S., Jr.
See Fred A. Donath, RM14:73:189

Fry, Albert S.
Fry Honored By Publication, CE:May 73:61

Fry, Bernard L.
V/STOL Concepts for Short Haul Air Transport, with R. William DeDecker, TE3:Aug 71:411:8277
TR:137:1000

Fry, John G.
Railroad Track Relocation Saves Time, Money, CE:May 74:86

Fry, Roger G.
See T. Clark Lyons, IR73:Aug 73:529

Fry, Zelma B.
See Robert W. Cunny, SM12:Dec 73:1055:10219

Frydman, Sam
Dsc, with Jan Kinsky and Israela Ravina, SM8:Aug 71:1124:8270, of "Mechanisms Controlling Compressibility of Clays", SM6:Nov 70:1863:7649

Yielding of Sand in Plane Strain, GT5:May 74:491:10540
Dsc: James A. Cheney, GT12:Dec 74:1304:10973

Fryer, Wilton B.
See Dwight C. Baier, IR2:June 73:133:9783

Fu, Houeh-chien
Indirect Structural Analysis by Finite Element Method, ST1:Jan 73:91:9478
Errata: ST10:Oct 73:2214:10039
TR:139:198

Fuchs, Bernard (Ben) A.
Farewell to Ben, CE:May 74:93
Retirement, CE:Apr 74:81

Fucik, E. Montford
Competitive Bidding on Foreign Work, PP1:Oct 71:121:8456
TR:137:693
Opening Remarks, ECCD:72:395
Dsc, SM9:Sept 72:972:9158, of "Heave and Lateral Movements Due to Pile Driving", SM11:Nov 71:1513:8497
Dsc, EI4:Oct 74:371:10835, of "Significance of Safety in Civil Engineering Practice, in the Public Interest, by the ASCE Task Committee on Safety Policy", EI1:Jan 74:11:10299

Fuertes, Louis A.
Solid Waste Management: Equity Trade-Off Models, with James F. Hudson and David H. Marks, UP2:Nov 74:155:10913

Fugelso, Leif E.
Elastic Free-Field Motion Due to Nuclear Blast, with Robert K. Waddick and Glen L. Heidhardt, EM6:Dec 68:1337:6266
TR:136:666

Fuhrboter, Alfred
Air Entrainment and Energy Dissipation in Breakers, 12CEC:71:391
Wave Measuring Instrumentation for Field Investigations on Breakers, with Fritz Busching, WAVES:Sept 74:649
Dsc, HY11:Nov 70:2385:7641, of "Formation of Dunes and Antidunes in Open Channels", HY2:Feb 70:357:7056

Fuhs, G. Wolfgang
Nutrients And Aquatic Vegetation Effects, EE2:Apr 74:269:10453
Dsc: W. C. Wang, EE6:Dec 74:1298:10971

Fujimoto, Morihisa
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, with Issao Funahashi, TB:73:II-13-87

Fukao, Hiroshi
See Tonia Eemura, CEO-II:70:247

Fukumoto, Yuhshi
Deflection Stability of Beams under Repeated Loads, with Hiroshi Yoshida, ST7:July 69:1443:6668
TR:135:52
Dsc, ST5:May 70:999:7250, of "Local Plastic Buckling of A514 Steel Members", ST9:Sept 69:1837:6761

Fukuoka, Shoju
Longitudinal Dispersion in Sinuous Channels, with William W. Aure, HY1:Jan 73:195:9479
Dsc: Tagadur P. Halappa Gowda, HY1:Jan 74:239:10251
TR:139:178

Fulco, Norman J.
Are More Women Needed in Civil Engineering, with Eugene E. Dallaire, CE:May 73:54
Dsc: Sandra Johnson, CE:July 73:25; Della Laura, CE:July 73:25; Amos Roos, CE:July 73:26; Dorothy M.N. McClellan, CE:July 73:26; Della Laura, CE:Oct 73:32; Gretchen L. Van Meer, CE:Mar 74:26
TR:139:210

Fuller, David R.
See Hassan M. El-Baroudi, EE3:June 73:347:9820

Fuller, Frank M.
Dsc, SM7:July 73:569:9825, of "Soil Conditions and Building Damage in 1967 Caracas Earthquake", SM8:Aug 72:787:9108

Fuller, Stephen S.
Water Resources Planning in Appalachia, UP2:Oct 70:123:7599
Dsc: Robert L. McFall, UP1:Apr 71:123:8016
TR:137:181

Fuller, T. L.
See H. M. Williamson, CE:July 69:44

Fulton, Angus A.
Dam Safety Laws and Inspection Procedures in the United Kingdom, IMROD:Sept 73:180

Fulton, Robert E.
Dynamic Buckling of Shallow Arches, with Furman W. Barton, EM3:June 71:865:8214
Dsc: EM2:Apr 72:478:8798
TR:137:997

Fults, Dan M.
Managing System Operations—Central Valley Project, with Lawrence F. Hancock, HY10:Oct 74:1419:10886
Optimum Operations Model for Shasta-Trinity System, with Lawrence F. Hancock, HY9:Sept 72:1497:9176
TR:138:450

Fumagalli, Emanuele
Tests on Cohesionless Materials for Rockfill Dams, SM1:Jan 69:313:6353
Dsc: J. K. Wilkins, SM2:Mar 70:767:7115
Clo: SM1:Jan 71:237:7785
TR:136:26
Dsc, ST4:Apr 69:774:6486, of "Materials for Structural Models", ST6:June 68:1353:5990

Funahashi, Issao
See Morihisa Fujimoto, TB:73:II-13-87

Fungaroli, A. Alexander
See Robert J. Schoenberger, SM10:Oct 71:1431:8451
See Edward J. Doheny, TN: SM5:May 72:523:8865

Funk, Monroe L.
Optimal Construction Staging by Dynamic Programming, with Frank A. Tillman, HW2:Nov 68:255:6215
Dsc: Suresh Sangal and E. Benjamin Wylie, TE4:Nov 69:689:6868
Clo: TE3:Aug 70:433:7440
TR:136:787

Funk, Peter
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), TB:73:III-24-705

Funk, Raymond R.
See Joseph W. Fortey, EPCE:Aug 74:161

Funke, E. R.
Computer Control and Data Acquisition of a Tidal Model, CE13:72:III-2387

Funkhouser, Donald W.
Skew and Elevated Support Effects on Curved Bridges, with Conrad P. Heins, Jr., ST7:July 74:1379:10670

Funston, Rowena
See W. E. Torget, WW2:May 70:411:7290

Fuquay, James J.
See David L. Schreiber, PO2:Dec 74:139:11001

Furkert, Richard E.
See Jack C. Wiley, EM6:Dec 72:1353:9441

Furlong, Richard W.
Composite Columns -- Present Standards of the ACI Building Code, TB:73:III-23-603
Concrete Encased Steel Columns—Design Tables, ST9:Sept 74:1865:10807
Dsc, ST8:Aug 71:2150:8271, of " Axial Load Design for Concrete Filled Steel Tubes", ST10:Oct 70:2125:7597
See James Colville, ST3:Mar 73:349:9593

Furman, Thomas deS.
Specialty Registration for Engineers, CE:Dec 72:32
  Dsc: Paul W. Merkens, CE:Mar 73:89; Rex A. Tynes, CE:Mar 73:89; John P. Piercy, CE:Mar 73:89
  TR:138:522
Dsc, PP2:Apr 72:173:8857, of "Professional Recognition -- How?", PP2:Apr 72:169:8857

Furmaniak, Thomas B.
See George R. Beetle, TE4:Nov 73:966:10110

Furr, Howard L.
See Aylmer P. Cheng, ST11:Nov 69:2335:6873
See Raouf Sinno, ST4:Apr 70:803:7227
See Raouf Sinno, ST8:Aug 70:1627:7450

Furumoto, Augustine S.
See George T. Taoka, ST2:Feb 74:305:10336

Gablinger, Moshe
Markov Models for Flow Regulation, with Daniel P. Loucks, HY1:Jan 70:165:7031
  Errata: HY1:Jan 71:175:7783

Gabrysh, Andrew F.
Dsc, CE:Apr 73:73

Gadish, Y.
See David Karmeli, PL1:Oct 68:1:6130

Gagliano, Sherwood M.
Deterioration and Restoration of Coastal Wetlands, with Hyuck J. Kwon and Johannes L. van Beek, 12CEC:71:1767

Gail, Charles P.
Subsurface Freezing Used In Tunneling, CE:May 72:37
  Dsc: Berlen C. Moneymaker, CE:Aug 72:59; John C. Custer, CE:Aug 72:59; Bertram W. Goodenough, CE:Dec 72:31; H. W. Love, CE:May 73:58
  TR:138:221

Gaither, Robert B.
See Ernest T. Smerdon, EI4:Oct 74:273:10847

Gaither, William S.
All-Weather Tanker Terminal for Cook Inlet, Alaska, with Robert E. Dalton, WW2:May 69:131:6549
  Dsc: Peter A. Hakman and William P. Kinneman, WW2:May 70:557:7252
  TR:136:652
Multi-Discipline Case Study Approach to Education in Project Planning, with Dennis R. Neuzil, CE:Dec 70:35
  TR:136:1197
Systems Approach to Petroleum Site Selection, with John Patrick Sides, WW3:Aug 69:395:6750
  TR:136:1092
See Kenneth R. Broome, WW1:Feb 70:121:7110
See Cheng Y. Yang, 12CEC:71:2011

Galambos, Theodore V.
Progress Report on Steel Box Girder Bridges, Subcommittee on Box Girders of the ASCE-AASHO Task Committee on Flexural Members, ST4:Apr 71:1175:8068
  Dsc: Charles G. Culver, ST9:Sept 71:2446:8348
  Clo: ST3:Mar 72:769:8752
  TR:137:424
Response Function, State-of-Art Report 4, TB:73:II-19-861
See Alfred Korn, ST5:May 68:1119:5942
See Charles R. Farwell, ST12:Dec 69:2813:6964
See R. Konyalian, ST3:Mar 70:737:7116
See Dale G. Eyre, ST7:July 70:1287:7395
See Dale G. Eyre, ST7:July 70:1359:7403
See Mayasandra K. Rauindra, ST1:Jan 72:389:8623
See Dale G. Eyre, ST10:Oct 73:2049:10049

Galbraith, Frank W.
Shock Spectra From Subsurface Nuclear Explosions, with Robert N. Schreiner, EM5:Oct 68:1015:6140
  TR:136:53

Galbreath, M.
Comments on Fire, with J. H. Mc Guire and B. E. Allen, TB:73:Ib-8-721

Galegar, William C.
Measuring Subsurface Spring Flow With Radiotracers, with Myron W. DeGeer, SA6:Dec 69:1097:6973
  TR:136:332

Gallagher, James
See Lloyd Lewis, CEO-II:70:641

Gallagher, Richard H.
Finite Element Shallow Lake Circulation Analysis, with James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855
  TR:139:328

Gallagher, Ronald P.
See George S. Korbay, CE:Jan 72:52

Gallagher, Thomas P.
Water Quality Considerations In Estuarine Development, with John E. Hagan, III, CEO-II:70:229

Gallaway, Bob M.
See Roger L. Engelke, TE1:Feb 74:27:10337

Galler, William S.
See Harold B. Gotaas, EE6:Dec 73:831:10191

Galletta, Leo J.
Inelastic Buckling of Spherical Shells, with Nicholas F. Morris, EM4:Aug 74:795:10761

Galligan, William L.
Machine Stress Rated Lumber: Challenge to Design, with Delos V. Snodgrass, ST12:Dec 70:2639:7772
  TR:137:271

Galliher, Claiborne F.
Water Accounting at Pumping Station S-5A in Florida, IR4:Dec 69:517:6970
  TR:136:282

Gallimore, Clarence L.
Plant Layout for Economical Concrete Dam Construction, ECCD:72:209

Galloway, Bob M.
Current Methods For Improved Tire-Pavement Interaction, with Jon A. Epps, TE4:Nov 72:915:9347
  Dsc: Kenneth R. Peattie, TE3:Aug 73:685:9896
  Clo: TE2:May 74:527:10508
  TR:139:90

Gallup, Wesley J.
Stabilized Base for Residential Streets, CE:May 69:40
  TR:135:292

Galvan, John J.
A Possible 1-Point System Method For Laboratory Compaction Testing, CE:Mar 72:78
  Dsc: Norbert O. Schmidt, CE:Nov 72:56
  Clo: CE:Mar 73:82
  TR:138:165

Galvin, Cyril J., Jr.
Breaker Travel and Choice of Design Wave Height, WW2:May 69:175:6569
  Dsc: J. William Kamphuis, WW4:Nov 69:600:6869; Shou-Shan Fan, WW1:Feb 70:160:7049
  TR:136:687
A Gross Longshore Transport Rate Formula, CE13:72:II-953
Wave Runup on Vertical Cylinders, with R. J. Hallermeier, CE13:72:III-1955
Dsc, WW4:Nov 73:499:10114, of "Maximum Breaker Height", WW4:Nov 72:529:9384

Galvin, Thomas F.
New York City Convention and Exhibition Center, CEWAU:74:211

Gambin, Michel Ph.
Dsc, SM6:June 71:937:8158, of "Engineering Properties of Submarine Soils: State-of-the Art Review", SM5:Sept 70:1735:7536

Gamble, William L.
Tests of a Two-Way Reinforced Concrete Floor Slab, with Mete A. Sozen and Chester P. Siess, ST6:June 69:1073:6586
  TR:135:84
Dsc, ST4:Apr 69:781:6486, of "Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steel of Joint ASCE-AASHO Committee on Steel Flexural Members", ST9:Sept 68:2033:6112

Gambrell, Samuel C., Jr.
See Terry R. Douglas, ST6:June 74:1189:10611
See Terry R. Douglas, EM5:Oct 74:991:10871

Ganczarczyk, Jerzy
Nitrogen Transformation in Activated Sludge Treatment, SA3:June 71:247:8163
  Dsc: SA1:Feb 72:260:8682
  Clo: SA5:Oct 72:783:9225
  TR:137:697

Gandy, Bruce C.
Rigid Urethane Foam Cures Roof Leakage, CE:July 73:73
  TR:139:305

Gangadharaiah, Thimmaiah
Inception and Entrainment in Self-Aerated Flows, with Nagar S. Lakshmana Rao and Kyatsandra Seetharamiah, HY7:July 70:1549:7427
  TR:137:117
See Nagar S. Lakshmana Rao, HY2:Feb 70:331:7055
See Nagar S. Lakshmana Rao, HY9:Sept 71:1285:8359

GangaRao, Hota V.S.
Dynamic Field Analysis of Torsionless Grids, with J. C. Smith, EM3:June 72:679:8993
  TR:138:330
Rectangular Prestressed Beams in Torsion and Bending, with Paul Zia, ST1:Jan 73:183:9501
  Dsc: Madhusudan Chakraborty, ST2:Feb 74:474:10306
  Clo: ST10:Oct 74:2146:10834
  TR:139:212
See Donald L. Dean, EM4:Aug 70:377:7463

Gangopadhyay, Chitta R.
An Approach to $\phi_m = 0$ Analysis for Stage Construction, TN: GT6:June 74:699:10597

Gangstad, Edward O.
Herbicidal Control of Aquatic Plants, SA2:Apr 72:397:8851
  Dsc: Tagadur P. Halappa Gowda, EE1:Feb 73:101:9521
  Clo: EE4:Aug 73:558:9893
  TR:139:240
See Thomas R. Bartley, IR3:Sept 74:231:10810

Ganguly, Jagadish C.
See Amitabha Ghosal, CO4:Dec 74:631:11034

Gannon, John J.
See Chester T. Wezenak, SA5:Oct 68:883:6159

Gantayat, A.
See Alexander Hrennikoff, EM4:Aug 68:998:6055
See Alexander Hrennikoff, EM3:June 70:313:7352

Garavaglia, Marcello
Concrete Dam Construction Practices, ECCD:72:467

Garbaccio, Donald H.
See Basil W. Wilson, WW4:Nov 64:449:6888

Garber, William F.
Report on the Session on Planning for Clean Water in Terms of Ecology and the Social Environment, CWFE:Mar 71:35
See Ralph Stone, SA3:June 70:691:7336

Garcia-Martinez, Luis E.
Parameter Estimation for First-Order Autoregressive Model, HY8:Aug 72:1343:9119
  TR:138:426

Garde, Ramachandra J.
Dsc, with K. G. Ranga Raju, HY4:Apr 70:1052:7189, of "Friction-Factors for Flat-Bed Flows in Sand Channels", HY4:July 69:1227:6678
See K. G. Ranga Raju, HY5:Sept 69:1753:6784
See K. G. Ranga Raju, HY3:Mar 70:815:7181
See K. G. Ranga Raju, HY7:July 70:1617:7384
See K. G. Ranga Raju, HY8:Aug 70:1749:7439
See K. G. Ranga Raju, HY1:Jan 71:196:7783

Gardiner, J. M.
See D. Wermenlinger, PO2:Mar 71:515:7974

Gardner, Marvin B., Jr.
Prestressed Cryogenic Pipelines, TE2:May 74:489:10559

Gardner, Noel J.
Mathematical Model of Single Pile, with Roy Sage, TN: GT9:Sept 74:1081:10774
Response of Cooling Tower to Turbulent Wind, ST10:Oct 69:2057:6812
  TR:136:273

Gardner, William S.
See James K. Mitchell, SM11:Nov 71:1549:8522

Garfield, Henry G.
Epoxy Injections Repair Historic Prestress Concrete Bridge, CE:Mar 71:39
  Dsc: Cast-in-Place Post-Tensioned Bridges, James R. Libby, CE:Aug 71:38
  TR:137:182

Garg, Satya P.

- Bed Load Transportation in Alluvial Channels, with Ashutosh K. Agrawal and Prem Raj Singh, HY5: May 71:653:8091
  - Dsc: William C. Harmon, HY1:Jan 72:291:8620; S. N. Sarkar, HY10:Oct 72:1872:9222; Oner Yucel, HY1:Jan 73:263:9459
  - Clo: HY12:Dec 73:2383:10182
  - TR:139:3
- Efficiency of Hydraulic Jump, with Hari R. Sharma, HY3:Mar 71:409:7994
  - Dsc: Frederic T. Mavis, HY9:Sept 71:1570:8345; James J. Sharp, HY9:Sept 71:1571:8345; Khalid Mahmood, HY10:Oct 71:1790:8407; Rupchand M. Advani and Pashupati N. Modi, HY11:Nov 71:1923:8483; Mohan M. Dandekar, HY12:Dec 71:2107:8552; Frank Y. Tsai, HY12:Dec 71: 2108:8552; Friedrich K. Hartung and Klausotto Csallner, HY1:Jan 72:278:8620
  - Clo: HY3:Mar 73:527:9580
  - TR:137:934
- Rational Design of Wall Screens, with Jagroshan Lal, IR1:Mar 71:131:7969
  - Dsc: Bruce W. Hunt, IR3:Sept 71:542:8346; Mostafa M. Soliman, IR1:Mar 72:153:8750; Amrik S. Chawla, IR1:Mar 72:154:8750
  - Clo: IR4:Dec 72:598:9392
  - TR:137:942
- Seepage from Trapezoidal Channels, with Amrik S. Chawla, HY6:June 70:1261:7335
  - Dsc: Anat Arbhabhirama and Edward K. Noda, HY12:Dec 70:2674:7711; Abdelwahab M. Amer, HY2:Feb 71:369:7863
  - Clo: HY10:Oct 71:1758:8407
  - TR:136:1258
- Stability of Structures on Permeable Foundations, with Amrik S. Chawla, HY4:July 69:1095:6648
  - Dsc: Rupchand M. Advani and Pashupati N. Modi, HY4:Apr 70:1044:7189
  - Clo: HY11:Nov 70:2362:7641
  - TR:136:123
- Dsc, with Ashutosh K. Agrawal, HY7:July 71:1148: 8223, of " Sediment Sampling Efficiency of Slots", HY10:Oct 70:2065:7637

Garg, Vijay K.

- Dsc, with Subhash C. Anand, EM1:Feb 74:128: 10303, of "Elastic-Plastic Analysis by Quadratic Programming", EM6:Dec 72:1547:9435
- See Kuang Chu, ST1:Jan 74:273:10253
- See Subhash C. Anand, EM6:Dec 74:1237:11035

Garland, George A.

- See Robert M. Clark, SA5:Oct 71:563:8403

Garlanger, John E.

- See D. Joseph Hagerty, PES:72:I-1207

Garner, Carl W.

- See Carl Raba, Jr., SM1:Jan 69:371:6324

Garnett, Michael A.

- Offshore Structures - Statistical Strain Recording, with Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
  - TR:138:177

Garratt, David L.

- Rochester High-Rise 'Safety Package', CE:July 73:66
  - Clo: CE:Nov 73:22
  - TR:139:295

Garrison, C. J.

- Impulsive Hydrodynamics of Submerged Rigid Bodies, with Ronald B. Berklite, EM1:Feb 73:99: 9563
  - Dsc: Bruce W. Hunt, EM5:Oct 73:1101:10041
  - Clo: EM3:June 74:614:10565
  - TR:139:235
- Interaction of Waves with Submerged Objects, with V. Seetharama Rao, WW2:May 71:259:8111
  - Dsc: Subrata K. Chakrabarti, WW4:Nov 71:771: 8488
  - TR:137:910
- Wave Forces on Submerged Bodies, with P. Y. Chow, WW3:Aug 72:375:9098
  - TR:138:371
- Dsc, HY1:Jan 70:286:6988, of "Flow Rates in Two-Dimensional, Unsteady, Confined Groundwater Flow", HY2:Mar 69:603:6451
- Dsc, HY4:Apr 71:631:8012, of "Virtual Mass of Plates and Discs in Water", HY10:Oct 70:1947: 7593
- Dsc, HY7:July 73:1196:9823, of "Nonlinear Wave Forces on a Vertical Cylinder", HY11:Nov 72: 1895:9333
- Dsc, HY8:Aug 74:1175:10696, of "Wave Forces on Pile Including Diffraction and Viscous Effects", HY8:Aug 73:1219:9935

Garrison, Jack M.

- Unsteady Flow Simulation in Rivers and Reservoirs, with Jean-Pierre P. Granju and James T. Price, HY5:Sept 69:1559:6771
  - TR:135:1039

Gartrell, Francis E.

- Environmental Protection-TVA Experience, with James C. Barber, SA6:Dec 70:1321:7761
  - Dsc: Robert L. McFall, SA4:Aug 71:537:8269; Eric Hirst, SA4:Aug 71:536:8269
  - Clo: SA2:Apr 72:440:8800
  - TR:137:431

Garvey, Brian J.

- See James C.I. Dodge, HY9:Sept 70:1888:7497

Gates, Marvin

- Bidding Contingencies and Probabilities, CO2:Nov 71:277:8524
  - Errata: CO1:Mar 72:139:8748
  - TR:137:891
- Bidding Stratagies and Probabilities, CO1:Mar 67:75: 5159
  - Dsc: Albert S. Keevil, CO2:Sept 67:112:5407; John D. Bristor, CO1:Jan 68:109:5701; Robert M. Stark, CO1:Jan 68:110:5701
  - Clo: CO1:June 70:77:7308
  - TR:135:330
- Earthwork Quantities by Random Sampling, with Amerigo Scarpa, CO1:July 69:65:6681
  - Errata: CO1:June 70:87:7308
  - TR:136:359
- Learning and Experience Curves, with Amerigo Scarpa, CO1:Mar 72:79:8778
  - TR:138:232
- Reward-Risk Ratio, with Amerigo Scarpa, CO4:Dec 74:521:10984
- Two Approximation Formulas for finding Angular Values, with Amerigo Scarpa, CE:Jan 69:61
  - TR:135:7
- Dsc, CO1:June 70:93:7308, of "OPBID: Competitive Bidding Strategy Model", CO1:July 69:85:6690

Gates, Richard H.

- Slope Analysis for Explosive Excavations, RM13:72: 243
- Dsc, CE:Oct 69:52, on The Military Draft: Educational and Occupational Deferments for Engineers, CE:May 69:67

Gates, William E.

- Biokinetic Evaluation of BOD Concepts and Data, with Sambhunath Ghosh, SA3:June 71:287:8184
  - Dsc: Peter Wilderer and Ludwig Hartmann, SA1: Feb 72:262:8682; Frederick Hart, Raymond Jarema and T. Helfgott, SA3:June 72:598:8928
  - TR:137:994

Gaudy, Anthony F., Jr.

- See Willie P. Isaacs, SA2:Apr 68:319:5905
- See Thazhethil K. George, EE5:Oct 73:593:10103

Gaughan, John

- Computer Analysis for Slender Concrete Columns, ST10:Oct 74:2123:10894

Gaughan, Michael K.
See Paul D. Komar, CE13:72:I-405

Gaughan, Wilbur F.
Slant Drilled Lake Pump Station, with Robert B. Mitchell, EPCE:Aug 74:391

Gaum, Carl H.
History and Future of Ohio River Navigation, WW2: May 70:483:7304
  Dsc: Sol M. Gleser, WW1:Feb 71:224:7868
  Clo: WW4:Nov 71:759:8488
  TR:136:1230
Dsc, TE1:Feb 70:117:7048, of "Economic Location of Locks", TE1:Feb 69:77:6397

Gaunt, John T.
See John E. Goldberg, ST4:Apr 73:741:9683

Gaus, Michael P.
Closing Remarks at the Tall Buildings Conference, TB:73:C-509
Field Observations, Theme Report, TB:73:C-AC17-127

Gavarini, Carlo
Dsc, with Daniele Veneziano, ST1:Jan 73:219:9462, of "Structural Safety—A Literature Review", ST4: Apr 72:845:8842
See Giulio Ceradini, ST2:Feb 70:435:7047
See Giulio Ceradini, EM6:Dec 73:1299:10181

Gawley, Thomas A.
Maintenance of Bicycle Facilities - An Overview, with Walter H. Kraft, BP73:Dec 73:143

Gay, Jack E.
See Kenneth Medearis, CE:July 73:82

Gaylord, Edwin H.
Elastic Analysis and Design, Theme Report, TB:73: II-14-153
See E. Whitman Wright, ST5:May 68:1143:5944
See Satya S. Sharma, ST12:Dec 69:2797:6960
See E Whitman Wright, ST8:Aug 70:1824:7442

Gburek, William J.
Subcritical Kinematic Flow in a Stable Stream, with Donald E. Overton, HY9:Sept 73:1433:10026
  TR:139:396

Gebauer, A. George
Dsc, EE5:Oct 74:1187:10836, of "Design of High-Rate Settlers", EE5:Oct 73:621:10051

Gebhart, Lloyd R.
Experimental Cationic Asphalt Emulsion Grouting, SM9:Sept 72:859:9172
  TR:138:446
Foundation Seepage Control Options for Existing Dams, IMROD:Sept 73:660

Gedney, David S.
State of Practice — Subsurface Investigation for Highway Tunnels, EFSE:Aug 74:36

Gedney, Robert H.
Development Planning of Laguna de Bay -- Philippines, HY12:Dec 73:2367:10227
  Errata: HY10:Oct 74:1501:10839
  TR:139:484

Gehner, Claus D.
See Jerry B. Schneider, TE4:Nov 74:943:10936

Gehres, Hillard Durwood
Memoir of, TR:136:1348

Gehring, Don
Structural Ground Concept and Wire Fabric Save Time and Money, CE:Nov 71:50
  TR:137:684

Geiger, David H.
Irregular Shaped Plates with Singularities, EM5:Oct 71:1533:8458
  Errata: EM5:Oct 72:1310:9221
  TR:137:822
US Pavilion at EXPO 70 Features Air-Supported Cable Roof, CE:Mar 70:48
See Mario G. Salvadori, ST10:Oct 68:2506:6135

Geisler, M.
Evaluation of Accuracy of Precise Leveling, with Haim B. Papo, SU2:Oct 67:103:5531
  Errata: SU2:Sept 68:289:6091
  TR:135:563

Gelbert, Menachem
See Jacob Gluck, ST9:Sept 72:2031:9196

Geldreich, Edwin E.
Salmonellae in Fresh Water Pollution, with Dale J. Van Donsel, NSCD:71:495

Geleedst, M.
Large Area Wave-Load Meter, with H. H. Hart, WW4:Nov 68:415:6209
  Dsc: Adel M. Kamel, WW3:Aug 69:425:6709
  Clo: WW2:May 70:550:7252
  TR:135:349

Gelerman, Walter
Planning for Satellite Airports, with Richard de Neufville, TE3:Aug 73:537:9951
  TR:139:432

Gelhar, Lynn W.
Gravitational and Dispersive Mixing in Aquifers, with John L. Wilson, III and John S. Miller, HY12: Dec 72:2135:9439
  TR:138:588
Turbulent Helical Flow in an Annuluf, with Peter L. Monkmeyer, EM1:Feb 68:295:5815
  TR:135:453
See James F. Ruff, EM4:Aug 72:975:9144
See Michael A. Collins, HY9:Sept 72:1701:9215

Gelinas, P.
See Kwan Y. Lo, RM13:72:595

Gellert, Menachem
Dsc, with Harold Gluck, ST11:Nov 68:2638:6203, of "Analysis by Group Iteration Using Substructures", ST2:Feb 68:363:5779
See Jacob Gluck, ST10:Oct 68:2504:6135
See Zvi Getzler, SM4:July 70:1357:7431

Gemmell, Robert S.
See George L. Peterson, UP1:Apr 69:1:6501
See Jarir S. Dajani, SA6:Dec 72:853:9414
See Jarir S. Dajani, UP2:Sept 73:171:9977

Genecki, Paul L.
Professional Liability Insurance, PP2:Apr 72:213: 8820
  Dsc: Otto C. von Seggern, PP4:Oct 72:735:9224
  TR:138:250

Genikhovich, E. L.
See M. E. Berlyand, ISSF:Aug 72:125

Gennis, Ivan F.
Coordinated Mapping Program Saves Money for County, with Joseph P. Allesandri, CE:Dec 73:45
  TR:139:534

Gensert, R. M.
Practical Design of Masonry Buildings, with William C. Bretnall, TB:73:III-27-1069

Gent, Allan R.
British Column Design, TB:73:II-16-545

Gentile, Guilio
Notes on The Construction Of The Alpe Gera Dam, RCCD:70:349

George, Kalankamary P.
- Theory of Brittle Fracture Applied to Soil Cement, SM3:May 70:991:7301
  - Dsc: Sridhar Rao, SM2:Feb 71:506:7866
  - Clo: SM9:Sept 71:1341:8347
  - TR:136:1145
- Dsc, SM12:Dec 73:1172:10184, of "Model Investigations of Pile Groups in Sand", SM2:Feb 73:199:9579
- See Bal K. Sanan, SM12:Dec 72:1375:9454

George, Thazhethil K.
- Response of Completely Mixed Systems to Hydraulic Shock Loads, with Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103
  - Dsc: F. Michael Saunders, EE4:Aug 74:1046:10693
  - TR:139:416

George, Warren
- See Erwin Long, SM4:July 67:595:5332

Georgi, R. A.
- The 1-Point Procedure, CE:Feb 71:60
  - Dsc: Thomas C. Coleman, CE:July 71:56
  - Errata: Rudolf A. Georgi, CE:July 71:56
  - TR:137:145

Georgiev, Borislav V.
- Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, with Evelin Monev, ISSF:Aug 72:519
- Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, ISSF:Aug 72:509

Gerard, Robert
- Finite Element Solution for Flow in Noncircular Conduits, HY3:Mar 74:425:10425
- Turbulent Flow Near Smooth Wall, EM6:Dec 74:1129:10999

Gerberich, William W.
- See James M. Becker, ST1:Jan 72:37:8624

Gerdes, Henry George
- Memoir of, TR:139:565

Gergely, Peter
- Buckling Of Orthotropic Hyberbolic Paraboloid Shells, TN: ST1:Jan 72:395:8619
- Cracking and Crack Control, State-of-Art Report 1, TB:73:III-24-645
- Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, with George Winter, ST10:Oct 72:2165:9236
  - TR:138:473
- See Prabodh V. Banavalkar, ST11:Nov 72:2605:9356

Gerig, Frank A.
- See William D. Kovacs, TN: ST2:Feb 74:200:10310

Germano, A. Trent
- See Paul H. Wright, BP73:Dec 73:368

Gero, John S.
- Sun Shading, Shadows and Effects on Traffic, TB:73:Ia-1-259
- Dsc, ST3:Mar 69:503:6430, of "Fabrication and Tests of Structural Models", ST6:June 68:1339:5989

Gerrard, Charles M.
- Dsc, with Jack R. Morgan, SM5:Jan 69:398:6754, of "Stresses and Displacements in Nonlinear Soil Media", SM1:Jan 68:1:5714
- See Jack R. Morgan, SM1:Jan 69:385:6324
- See Jack R. Morgan, SM12:Dec 71:1675:8577
- See W. Jill Harrison, SM12:Dec 72:1325:9417

Gerritsen, Franciscus
- Hawaiian Beaches, CE13:72:II-1257
- Dsc, with Per Moller Bruun, WW2:May 69:231:6528, of "Stability Tests of Interlocking Block Revetment", WW3:Aug 68:331:6079
- See Per Moller Bruun, WW4:Nov 74:389:10903

Gersten, Marvin C.
- Buses Get Exclusive Use of Freeway Median, with Jeanine M. Kahan, CE:July 70:68
  - TR:136:574

Gerstle, Kurt H.
- Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, TB:73:III-22-353
- See Roy R. Russell, ST4:Apr 68:995:5902
- See John D. Mozer, ST3:Mar 70:597:7157
- See Gerald W. May, ST7:July 71:1863:8237
- See Vladimir Carvenka, ST9:Sept 71:2434:8348
- See John D. Meyer, ST1:Jan 72:95:8641
- See Hon-Yim Ko, RM14:73:157
- See George S. McClure, Jr., ST2:Feb 73:243:9564
- See Helmut B. Kupfer, EM4:Aug 73:853:9917

Gerstner, Robert W.
- Dsc, with Raymond M. Puzerewski and Donald M. Schultz, ST12:Dec 71:2924:8557, of "Numerical Error in Structural Solutions", ST4:Apr 71:1039:8036

Gerwick, Ben C., Jr.
- Book Review: Handbook of Construction Management and Organization, CE:Oct 73:106
- Concrete Oil Storage Tank to Rest in North Sea, with Eivind Hognestad, CE:Aug 73:81
  - TR:139:375
- Construction Engineering and Management (Discussion), CEE:Feb 74:2-310
- Construction Of Large Concrete Ocean Structures, CO1:Mar 71:1:7991
  - Dsc: Alexander M. Turitzin, CO1:Mar 72:135:8748
  - TR:137:948
- High Capacity Prestressed Concrete Piling, TB:73:Ia-11-985
- Integrating Construction with Engineering, CEE:Feb 74:1-598
- Prestressed Concrete Developments Around the World, CE:Dec 70:55
  - TR:136:1234
- Dsc, WW2:May 72:293:8863, of "Ultimate Energy Design of Prestressed Concrete Fender Piling", WW4:Nov 71:647:8527

Gessler, Johannes
- Self-Stabilizing Tendencies of Alluvial Channels, WW2:May 70:235:7263
  - Dsc: Barry A. Benedict and Bent A. Christensen, WW1:Feb 71:213:7868; Ivan V. Egiazaroff, WW1:Feb 71:216:7868
  - Clo: WW4:Nov 71:757:8488
  - TR:136:1307
- Vectors in Dimensional Analysis, EM1:Feb 73:121:9561
  - TR:139:231
- Dsc, HY4:Apr 70:1088:7189, of "Instability of Flat Bed in Alluvial Channels", HY5:Sept 69:1545:6770
- Dsc, EM6:Dec 71:1746:8551, of "Directional Analysis in Model Design", EM2:Apr 71:519:8053

Gesund, Hans
- Stiffness of Reinforced Concrete Columns in Biaxial Bending, with Charles E. Vandenvelde, TB:73:III-22-455
- Dsc, ST10:Oct 71:2632:8411, of "Analysis of Dowel Action", ST5:May 71:1611:8147
- See Bandaru Venkateswarlu, ST12:Dec 72:2663:9423
- See Sateesh J. Nabar, ST5:May 73:953:9693

Getzler, Zvi
- Analysis of Arching Pressures in Ideal Elastic Soil, with Menachem Gellert and Ruben Eitan, SM4:July 70:1357:7431
  - TR:136:1014
- Experimental Study of Buckling of Buried Domes, with L. Lupu, SM2:Mar 69:605:6476
  - Errata: SM2:Mar 70:768:7115
  - TR:135:45

Model Study on Arching Above Buried Structures, with Amos Komornik and Ami Mazurik, SM5:Sept 68:1123:6105
Dsc: Henry L. Gill, SM4:July 69:1120:6643
Clo: SM2:Apr 70:762:7115
TR:135:201

Geyer, John C.
See John C. Schaake, Jr., HY6:Nov 67:353:5607
See John Eric Edinger, SA4:Aug 68:611:6064

Ghaboussi, Jamshid
Finite Element for Rock Joints and Interfaces, with Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095
Dsc: Mysore Nataraja, GT8:Aug 74:966:10695
TR:139:459
Seismic Analysis of Earth Dam-Reservoir Systems, with Edward L. Wilson, SM10:Oct 73:849:10053
TR:139:419
Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, with Edward L. Wilson, EM4:Aug 72:947:9152
Dsc: Ismael Herrera and Jacobo Bielak, EM5:Oct 73:1097:10041
Clo: EM3:June 74:613:10565
TR:139:113

Ghahramani, Arsalan
See Ali Sabzevari, GT1:Jan 74:15:10285

Ghali, Amin
Displacements and Losses in Multistage Prestressed Members, with Romy G. Sisodiya and Gamil S. Tadros, ST11:Nov 74:2307:10968
See Gamil S. Tadros, EM5:Oct 73:1023:10054

Ghavami, Massood
See Reynold K. Watkins, PL1:Oct 68:155:6195

Ghazzaly, Osman I.
See Albert J. Bonar, TE2:May 73:211:9718

Ghobarah, Ahmed A.
Over-All and Local Buckling of Channel Columns, with Wai K. Tso, EM2:Apr 69:447:6513
Dsc: Ekkehard Schiedel, EM6:Dec 69:1446:6929; Kothapalli Ramaiah Venkataramaiah, EM1:Feb 70:92:7044
Clo: EM5:Oct 70:783:7574
TR:136:71
See Mohammed K. Elsamny, SM1:Jan 72:13:8625
See Wai K. Tso, EM1:Feb 72:277:8680

Ghosal, Amitabha
Hardinge Bridge Span Repair, with Jagadish C. Ganguly, Himangsu K. Banerjee and Mahesh P. Kapoor, CO4:Dec 74:631:11034

Ghose, Amitava
See Graham H. Powell, ST9:Sept 69:1953:6796

Ghosh, Eric K.
Dsc, ST1:Jan 72:387:8623, of "Flexural Members with Confined Concrete", ST7:July 71:1969:8243

Ghosh, K. K.
Breaking Load for Rigid Pavement, with M. Dinakaran, TE1:Feb 70:87:7108
Errata: TE1:Feb 71:166:7864
TR:136:400

Ghosh, Ram S.
See J. Neil Mustard, CO4:Dec 74:507:10994

Ghosh, S. N.
Boundary Shear Distribution in Open Channel Flow, with N. Roy, HY4:Apr 70:967:7241
Errata: HY4:Apr 71:585:8012
TR:136:710

Ghosh, Sambhunath
See William E. Gates, SA3:June 71:287:8184

Ghosh, Satyendra K.
Dsc, ST6:June 70:1254:7314, of "Behavior of Concrete under Compressive Loadings", ST12:Dec 69:2543:6935
Dsc, ST3:Mar 71:988:7944, of "Effects of Reinforcements on Ductility of Concrete", ST6:June 70:1167:7366
Dsc, ST3:Mar 71:1005:7944, of "Compression-Tests on Hoop-Reinforced Concrete", ST7:July 70:1495:7417
Dsc, ST5:May 71:1644:8084, of "Behavior of Concrete Under Varying Strain Gradients", ST8:Aug 70:1675:7484
Dsc, ST:July 71:2032:8225, of "Behavior of Laterally Reinforced Concrete ColumnF", ST2:Feb 71:587:7905
Dsc, EI1:Jan 74:87:10252, of "Upgrading Student Membership", PP1:Jan 73:119:9508
See M. Z. Cohn, EM5:Oct 72:1133:9246

Gianelli, William R.
California Water Project, with Robert B. Jansen, CE:June 72:78
TR:138:307
Oroville Dam and Edward Hyatt Powerplant, CE:June 69:68
TR:135:480

Giangreco, Elio
Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, TB:73:II-13-23

Gianniny, Omer Allan, Jr.
Humanities and Social Sciences in Engineering Education, 1974, CEE:Feb 74:1-530

Giaquinta, Arthur A.
Slow Non-Newtonian Flow in Zone of Separation, with Tin-Kan Hung, EM6:Dec 68:1521:6319
Errata: EM6:Dec 69:1441:6929
TR:135:299

Gibala, Rocco
See Gholamreza Mesri, RM13:72:57

Gibbons, N. R.
See Wen F. Chang, CEO-II:70:1023

Gibbs, Albert E.
Current Design Capacity Procedure Used by the USBR, IRS:Sept 72:331

Gibbs, Charles V.
Basin Management Techniques for Sewerage Agencies, with Allan L. Poole, SA3:June 72:491:8960
TR:138:375
Management and Regulations for the Future Basin Management Techniques, with Allan L. Poole, CWFE:Mar 71:65
A System for Regulation of Combined Sewage Flows, with Stuart M. Alexander and Curtis P. Leiser, SA6:Dec 72:951:9402
TR:138:506

Gibbs, Harold J.
Standard Penetration Test for Sand Denseness, 4PCSM:71:II27
See Wesley G. Holtz, SM3:May 69:900:6525

Gibbs, William R.
Educating Engineers for Professional and Ethical Responsibility (Discussion), CEE:Feb 74:2-305
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Gibby, A. Reed
Dsc, UP2:Nov 74:203:10902, of "Goal Formulation for Socio-technical Systems", UP2:Sept 73:157:9985

Giberson, Melbourne F.
Two Nonlinear Beams with Definitions of Ductility, ST2:Feb 69:137:6377
TR:136:799

Gibson, D. W.
See Wen F. Chang, CEO-II:70:1023

Gibson, Gary C.
See Harry M. Coyle, SM3:May 70:949:7296

Gibson, Robert E.
See Peter T. Brown, TN: SM10:Oct 73:917:10042

Gibson, Robert W.
See Rex K. Rainer, CO1:Mar 74:103:10377

Gidlund, Erik R.
See Burton A. Segall, SA4:Aug 72:647:9109

Gielly, J.
Dsc, with P. Lareal and Guy C. Sanglerat, SM2:Feb 71:508:7866, of "Static Cone to Compute Static Settlement Over Sand", SM3:May 70:1011:7302

Gientke, Fred J.
Transient Control in Lower Sacramento River, HY3: Mar 74:405:10418
Dsc: Danny L. Fread, HY12:Dec 74:1858:10974

Giese, Egon
See Hans Vollmers, HY6:June 70:1357:7310
See Hans Vollmers, HY12:Dec 70:2649:7711
See Hans Vollmers, CE13:72:III-2447

Giessner, William R.
Planning and Control of Combined Sewerage Systems, with Robert T. Cockburn, Frank H. Moss, Jr. and Mark E. Noonan, EE4:Aug 74:1013:10744

Gifford, Douglas G.
See Charles C. Ladd, PES:72:I-211
See Marvin D. Oosterbaan, PES:72:I-1391

Giger, Max W.
See Wai F. Chen, SM1:Jan 71:19:7828
See Raymond J. Krizek, TN: GT1:Jan 74:89:10254

Giguere, Ronald K.
See Jason C. Yu, TE4:Nov 73:725:10126

Gilbert, Gorman
Markov Renewal Model of Linked Trip Travel Behavior, with George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112
TR:138:339

Gilbert, Paul H.
Edward Hyatt Powerplant Intake Structure, PO1:Mar 69:110:6471
TR:136:814

Gilchrist, Gibb
Gibb Gilchrist Dead, CE:Mar 73:98
Memoir of, TR:138:614

Gilchrist, J. T.
Discharge Facilities at Hells Canyon Dam, with D. E. Barclay, PO2:Nov 68:161:6230
TR:135:241

Gilde, Louis C.
Land Treatment of Food Processing Wastewaters, IR3:Sept 73:339:10000
TR:139:433

Gileadi, Aviva E.
Nuclear Excavation of an Elat-Dead Sea Waterway, with Wilson K. Talley, WW3:Aug 69:329:6730
TR:135:288

Giles, Burke
Field Manager for Water Resource Utilization, HY10:Oct 74:1411:10893

Giles, Gary L.
A Procedure For Automating Aircraft Wing Structural Design, EC5:70:125
Procedure for Automating Aircraft Wing Structural Design, ST1:Jan 71:99:7821
TR:137:281

Gilg, Bernhard E.
Mattmark — A Dam Founded on Alluvial and Morainic Deposits, EFFD:Mar 74:215
Dsc, with R. Zwahlen, ST6:June 71:1824:8159, of "Complete Adjustment Method for Analyzing Arch Dams", ST8:Aug 70:1711:7492

Gill, Henry L.
Dsc, SM4:July 69:1120:6643, of "Model Study on Arching Above Buried Structures", SM5:Sept 68: 1123:6105

Gill, Mohammad Akram
Analysis Of Probability And Risk Equations, TN: HY5:May 72:969:8864
Erosion of Sand Beds Around Spur Dikes, HY9:Sept 72:1587:9198
Dsc: Charles R. Neill, HY5:May 73:860:9689; Kikkeri L.V. Ramu, HY8:Aug 73:1272:9895; Zdenek Thomas, HY8:Aug 73:1274:9895; Michael A. Stevens and Daryl B. Simons, HY9: Sept 73:1634:9961; Pande B.B. Lal, HY9:Sept 73:1635:9961; L. Veiga da Cunha, HY9:Sept 73: 1637:9961; Mushtaq Ahmad, HY9:Sept 73: 1639:9961
Clo: HY9:Sept 74:1265:10770
TR:139:97
Height of Sand Dunes in Open Channel Flows, HY12:Dec 71:2067:8612
Errata: HY4:Apr 73:683:9637
TR:137:967
Oscillations in Surge Tanks, HY10:Oct 74:1369: 10891
Rationalization of Lacey's Regime Flow Equations, HY4:July 68:983:6039
Dsc: John G. Herbertson, HY2:Mar 69:740:6433; Claude C. Inglis, HY2:Mar 69:744:6433; Frank Engelund, HY2:Mar 69:747:6433; Peter Ackers, HY2:Mar 69:747:6433; F. V. A. Engel, HY3: May 69:1068:6524; Gerald Lacey, HY3:May 69: 1072:6524; Mushtaq Ahmad and Abdul Rehman, HY3:Sept 69:1739:6784
Errata: HY2:Feb 70:580:7045
Clo: HY7:July 70:1607:7384
Clo: HY5:May 70:1193:7248
TR:135:674
Dsc, HY3:May 68:832:5920, of "Determination of Efficient Open Channel Sections", HY6:Nov 67: 103:5567
Dsc, HY1:Jan 69:561:6323, of "Fall Velocity of Irregular Shaped Particles", HY3:May 68:721:5949
Dsc, HY2:Mar 69:753:6433, of "Erosion of Cohesive Sediments, Task Commitee on Erosion of Cohesive MaterialH", HY4:July 68:1017:6044
Dsc, with P. Natarajan, HY4:Apr 70:1086:7189, of "Instability of Flat Bed in Alluvial Channels", HY5:Sept 69:1545:6770
Dsc, HY7:July 71:1154:8223, of "Indeterminate Hydraulics of Alluvial Channels", HY11:Nov 70: 2309:7696
Dsc, WW4:Nov 71:768:8488, of "Flume Experiments on Alternate Bar Formation", WW1:Feb 71:155: 7869
Dsc, IR2:June 72:331:8926, of "Tunnel Vision or Ecological View", IR3:Sept 71:397:8368
Dsc, HY10:Oct 72:1880:9222, of "Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation", HY12:Dec 71:1979:8591
Dsc, HY10:Oct 72:1888:9222, of "Einstein Bed-Load Function at High Sediment Rates", HY1:Jan 72: 137:8652

Gillan, Gerald K.
Dsc, CE:Apr 72:62, on Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61

Gillean, James I.
See Robert M. Clark, EE1:Feb 74:7:10316

Gilleland, Jack E.
Siting of Browns Ferry Nuclear Plant, PO2:Oct 69:185:6827
  TR:136:124

Gillespie, Doyle D.
See Carlton T. Wise, CE:June 71:43

Gillespie, James W.
Design — State-of-the-Art, by Subcommittee on Design and Specifications of the Task Committee on Pipelines in the Ocean, PITO:74:45

Gillespie, William J.
Recent Paper Industry Waste Treatment Systems, SA2:Apr 70:467:7234
  Dsc: P. V.R. Subrahmanyam and G. J. Mohanrao, SA6:Dec 70:1463:7713
  Clo: SA4:Aug 71:528:8269
  TR:136:857

Gillfillan, Walter E.
General Aviation's Urban Airport Capacity Problem, TE1:Feb 70:79:7109
  TR:136:729

Gilligan, John A.
Connections, State-of-Art Report 5, with Wai F. Chen, TB:73:II-15-327

Gilliland, Bobby E.
See Aaron S. Collins, EE2:Apr 74:487:10475

Gillis, Don
See Doug McKay, CE:Oct 74:74

Gillis, Lyman R.
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Gilman, David W.
Challenge Of Underground Transmission and Distribution, with Edward J. Steeve, PO1:Jan 71:151:7827

Gilman, Roger H.
The Impact of Staggered Work Hours on Public Transportation, NA:Mar 71:91
Views of Port Industry, WW1:Feb 71:3:7919
  TR:137:249
Dsc, CE:Feb 72:65, on Dsc, World Trade C, CE:Oct 71:90

Gilmore, M. I.
CIL House, TB:73:C-P-284
Commerce Court, TB:73:C-P-294
Royal Bank Building, TB:73:C-P-288
Toronto-Dominion Center, TB:73:C-P-301

Gingell, Vernon R.
Grooving on the Runway at Washington National Airport, CE:Jan 69:31
  TR:135:57

Ginsberg, Harry J.
Ethics and Mankind, CE:Oct 70:92
  Dsc: Engineers and Responsibility, Harry J. Ginsberg, CE:Feb 71:55
Dsc, CE:Feb 71:55, on Ethics and Mankind, CE:Oct 70:92

Giovannitti, Ernest F.
See Walter N. Heine, SA3:June 70:743:7362

Girand, John
Technical Movie of Papago Freeway, TE4:Nov 71:619:8506
  TR:137:1017

Giratalla, M. K.
See John A. McCorquodale, HY4:Apr 72:667:8846

Giraudet, Pierre
Dsc, BMS:71:220, of "Model Investigation of Berthing Impacts", BMS:71:209
Dsc, BMS:71:265, of "Selection of Fenders", BMS:71:260

Girault, Pablo
Design and Performance of Deep Foundations -- Reporter's Summary, PES:73:III-211
Settlement of Some Piled Foundations in Mexico, PES:72:I-1185
Dsc, ST7:July 70:1620:7386, of "Structural Behavior of Concrete Arch Culvert", ST12:Dec 69:2665:6942

Girijavallabhan, Chiyyarath V.
Analysis of Shear Walls with Openings, ST10:Oct 69:2093:6824
  Dsc: D. Melville Porter, ST4:Apr 70:873:7191; Ganpat S. Pandit, ST7:July 70:1606:7386; David G. Elms, ST7:July 70:1607:7386; Anatol A. Eremin, ST7:July 70:1608:7386; Alexander Coull, ST7:July 70:1609:7386; Joseph Schwaighofer, ST8:Aug 70:1810:7442; K. S. Rajagopalan, ST8:Aug 70:1811:7442; Edgar Lightfoot, ST9:Sept 70:1968:7567
  Errata: ST3:Mar 71:962:7944
  Clo: ST4:Apr 71:1343:8015
  TR:136:280
Buckling Loads of Nonuniform Columns, ST11:Nov 69:2419:6908
  Dsc: Henry Malter, ST5:May 70:1003:7250; Georg Thierauf, ST5:May 70:1004:7250; P. Paramasivam, ST7:July 70:1613:7386; Nicholas S. Trahair and Peter T. Brown, ST8:Aug 70:1817:7442; Raymond H. R. Tide, ST8:Aug 70:1819:7442
  Clo: ST3:Mar 71:965:7944
  TR:136:356
Error Analysis For Rectangular Finite Elements, with Ramakrishna Narayanaswami, TN: ST1:Jan 72:413:8619
Finite Element Method Applied to Some Problems in Soil Mechanics, with Lymon C. Reese, SM2:Mar 68:473:5864
  Dsc: Ian M. Smith, SM2:Mar 69:683:6429
  Clo: SM2:Mar 70:753:7115
  TR:135:216
Numerical Method for Elastic Stability Problems, ST11:Nov 71:2691:8530
  TR:137:956
Stresses in Restrained Cylinder Under Axial Compression, TN: SM2:Mar 70:783:7117
Dsc, SM1:Jan 70:350:6989, of "A Study of Bulk and Shear Moduli of a Sand", SM2:Mar 69:561:6461
See Ramakrishna Narayanaswami, ST8:Aug 71:2152:8271

Giroud, Jean-Pierre
Settlement of Embankment on Layer of Soil, with Andre Rabatel, TN: SM1:Jan 71:287:7787
Settlement Of Rectangular Foundation On Soil Layer, TN: SM1:Jan 72:149:8618
Stresses Under Linearly Loaded Rectangular Area, SM1:Jan 70:263:7040
  TR:136:505
Dsc, with J. M. Runacher, SM2:Mar 70:768:7115, of "Settlement of Building on Deep Compressible Soil", SM3:May 69:769:6547
Dsc, SM6:Nov 70:2140:7643, of "Guide for Depth of Foundation Exploration", SM2:Mar 70:377:7120
Dsc, with Pierre Stutz, SM6:Nov 70:2148:7643, of "Bearing Capacity of Foundation on Sand", SM2:Mar 70:545:7158
Dsc, SM6:Nov 70:2160:7643, of "Settlement Problem Oriented Computer Language", SM2:Mar 70:649:7178
Dsc, SM4:Apr 71:693:8014, of " Effect of Particle Characteristics on Soil Strength", SM4:July 70:1221:7393
Dsc, SM5:May 71:806:8083, of "Analysis of Circular Footings on Layered Soils", SM4:July 70:1289:7408
See J. P. Boehler, SM10:Oct 71:1493:8410

Gitlin, H. M.
See I-pai Wu, IR2:June 73:157:9786

Giuliani, F.
Dsc, 4PCSM:72:III151, of "The Allowable Settlement of Structures", 4PCSM:71:I171

Givens, John J.
Rehabilitation of Offshore Platforms, with Greg Carter, CE:Apr 70:47
  TR:136:333

Gizienski, Stanley F.
See Iraj Noorany, SM5:Sept 70:1735:7536

Gjelsvik, Atle
Extension of Incremental Collapse Theorems, TN: EM5:Oct 71:1603:8412
Interaction Between Frames and Precast Panel Walls, ST2:Feb 74:405:10374
Stability of Water Cooled Columns, EM4:Aug 71: 1205:8335
  TR:137:762
See Li-Chung Tao, EM5:Oct 69:1169:6849
See Jeffrey L. Bluestein, ST7:July 70:1535:7421

Gjorv, Odd E.
Thin Underwater Concrete Structures, CO1:June 70: 9:7326
  Errata: CO1:Mar 71:166:7939
  TR:136:494

Gladwell, Graham M. L.
See Donald E. Grierson, ST5:May 71:1561:8127

Gladwell, John S.
Dsc, with Cheng-nan Lin, HY1:Jan 71:207:7783, of "Pressure Surge Attenuation Utilizing an Air Chamber", HY5:May 70:1143:7267

Glass, B. L.
See J. H. Caro, IAWM:72:141

Glasscock, Dwight L.
Session III-Control of Pollution in Concrete Dam Construction, ECCD:72:391

Glassman, Ami
Behavior of Crossed Beams on Elastic Foundations, SM1:Jan 72:1:8626
  Dsc: B. Ramanathan, SM12:Dec 72:1408:9394
  Clo: SM6:June 73:475:9762
  TR:139:22
Dsc, ST10:Oct 70:2242:7570, of "Structure And Foundation Interaction Theory", ST2:Feb 70:177: 7059

Glauser, Ernst C.
See Fung J. Lin, ST7:July 70:1377:7404

Glenn, Jerry L.
See Herbert H. Stevens, Jr., HYB:Aug 73:279

Glenne, Bard
Coastal Current of Pacific Northwest, with Robert H. Bourke, WW4:Nov 72:433:9371
  TR:138:574
See Themistocles A. Dracos, HY6:Nov 67:79:5566

Gleser, Sol M.
Dsc, WW4:Nov 70:872:7645, of "Interoceanic Canal Navigation Criteria", WW2:May 70:395:7288
Dsc, WW1:Feb 71:223:7868, of "Problems of Inland Waterway Lock Dimensions", WW2:May 70:451: 7295
Dsc, WW1:Feb 71:224:7868, of "History and Future of Ohio River Navigation", WW2:May 70:483:7304
Dsc, WW1:Feb 71:230:7868, of "Framework Plan for Ohio Basin Navigation to 2020", WW3:Aug 70: 665:7473
Dsc, SM6:June 71:935:8158, of "Lateral Load Tests on Piles-Arkansas River Project", SM5:Sept 70: 1583:7510
Dsc, SM6:June 71:936:8158, of "Model Study of Laterally Loaded Piles", SM5:Sept 70:1605:7511
Dsc, WW1:Feb 72:126:8686, of "Design of Columbia River Pile Dikes", WW2:May 71:323:8142

Glockner, Peter G.
Lagrangian Formulation of Sandwich Shell Theory, with David. J. Malcolm, EM3:June 73:445:9775
  TR:139:312
Physical Strains in Nonlinear Thin Shell Theory, with J. P. Shrivastava, EM6:Dec 69:1331:6956
  Errata: EM6:Dec 70:1272:7710
  TR:136:385
Symmetry in Structural Mechanics, ST1:Jan 73:71: 9475
  Dsc: Vasant S. Kelkar, ST11:Nov 73:2322:10113; Gregory Szuladzinski, ST11:Nov 73:2322:10113; Paul W. Abeles, ST12:Dec 73:2498:10185
  Clo: ST8:Aug 74:1708:10697
  TR:139:193
See E. Ramzy F. Zaghlool, ST3:Mar 70:487:7147
See J. P. Shrivastava, EM5:Oct 70:547:7584
See Frank G. Bercha, TN: EM3:June 72:757:8931
See Frank G. Bercha, EM4:Aug 72:823:9095
See David J. Malcolm, EM5:Oct 72:1075:9240
See David J. Malcolm, EM5:Oct 72:1183:9244
See Frank G. Bercha, EM5:Oct 73:1053:10093

Glogau, O. A.
Dsc, ST6:June 70:1249:7314, of "Elasto-Plastic Seismic Response of Reinforced Concrete Frame", ST10:Oct 69:2031:6813

Glosten, Lawrence R.
Ocean Tug-Barge Systems, WW2:May 72:243:8868
  TR:138:243

Gloudeman, Joseph F.
Dsc, with George von Fuchs, ST8:Aug 69:1776:6707, of "Techniques for Analysis of Large Structures", ST11:Nov 68:2521:6233

Glova, James F.
See Frederick L. Moreadith, SDNPF:Dec 73:201

Glover, George E.
Dsc, SA4:Aug 70:1025:7441, of "Turbulence and Flocculation", SA2:Apr 70:223:7201
Dsc, SA4:Aug 72:671:9077, of "Problems in Obtaining Adequate Sewage Disinfection", SA5:Oct 71:549:8430

Glover, J.
See P. K. Bahattacharya, HY1:Jan 69:6323

Glover, Robert E.
Colorado River-Flow Management, with Chester A. Nelson and John I. Sanders, HY11:Nov 74:1519: 10934

Gloyna, Earnest F.
Influence of Sediments on Transport of Solutes, HY4: July 69:1347:6699
  TR:135:3
Sulfide Production in Waste Stabilization Ponds, with Ernesto Espino, SA3:June 69:607:6637
  Dsc: David Duncan Mara and David J.A. Williams, SA2:Apr 70:628:7190
  TR:136:1080
See Roger Don Shull, SA6:Dec 69:995:6948
See Almond J. Hays, Jr., CEO-II:70:269
See E. M. Davis, NSCD:71:539
See Ernst M. Davis, SA1:Feb 72:59:8714
See Almond J. Hays, Jr., SA1:Feb 72:195:8715

Gluck, Harold
See Menachem Gellert, ST11:Nov 68:2638:6203

Gluck, Jacob
Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, with Menachem Gelbert, ST9:Sept 72:2031:9196
  TR:138:451

Elastic Analysis of Tall Concrete Buildings, TB:73: III-21-300
Elasto-Plastic Analysis of Coupled Shear Walls, ST8: Aug 73:1743:9920
  Dsc: Bernardo J. Deschapelles, ST9:Sept 74:1956: 10772
  TR:139:438
Lateral-Load Analysis of Asymmetric Multistory Structures, ST2:Feb 70:317:7089
  Dsc: Jacobus H. Wynhoven and Peter F. Adams, ST11:Nov 70:2538:7644; Jayanta K. Biswas and Wai K. Tso, ST11:Nov 70:2540:7644
  Clo: ST6:June 71:1804:8159
  TR:136:819
Polynomial Stiffness Coefficients, TB:73:II-16-593
Stress Analysis of Group of Interconnected Thin-Walled Cantilevers, with Mordechai Krauss, ST10: Oct 73:2143:10089
  Dsc: Riko Rosman, ST9:Sept 74:1968:10772
  TR:139:496
Torsional-Flexural Vibration of Multi-Story Structures, TB:73:Ib-6-298
Dsc, with Menachem Gellert, ST10:Oct 68:2504: 6135, of "Analysis of Pierced Shear Walls", ST1: Jan 68:71:5710
See Arnold Winokur, ST3:Mar 68:645:5842
See Ephraim Spira, ST6:June 72:1339:8930

Glymph, Louis M.
Hydrologic Response of Watersheds to Land Use Management, with Heggie N. Holtan and Charles B. England, IR2:June 71:305:8174
  Errata: IR1:Mar 72:166:8750
  TR:137:402

Glynn, Thomas M.
See Vincent D. Arp, TE4:Nov 73:873:10163

Gnaedinger, John P.
Dsc, with Robert J. Gnaedinger, Jr., SM6:Nov 70: 2131:7643, of "Building Damage From Expansive Steel Slag Backfill", SM6:Nov 69:1325:6879
Dsc, with Robert J. Gnaedinger, Jr., PISST:71:256, of "Building Damage from Expansive Steel Slag Backfill", PISST:71:235
See Michael L. Larson, PES:72:I-1341
See A. L. Ruiz, SM10:Oct 73:889:10038

Gnaedinger, Robert J., Jr.
See John P. Gnaedinger, SM6:Nov 70:2131:7643
See John P. Gnaedinger, PISST:71:256
See Robert G. Lukas, PES:72:I-1087

Gnirk, Paul F.
Rock Drilling with Pulsed High-Velocity Water Jets, with William H. Grams, RM14:73:589

Go, James Chi-dian
Propagation Of Waves Generated By Underwater Explosion, CEO-II:70:1149

Goble, George G.
Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, with William D. Kovacs and Frank Rausche, PES:73:III-3
Pile Bearing Capacity -- Prediction Versus Performance, with Frederick K. Walker and Frank Rausche, PES:72:I-1243
Dsc, with Frank Rausche, PES:73:III-227, of "Design and Performance of Deep Foundations", PES:73:II-111
See William S. LaPay, EC5:70:223
See William S. LaPay, ST1:Jan 71:157:7838
See Frank Rausche, CO2:Sept 72:201:9188
See Frank Rausche, SM9:Sept 72:917:9220

Goda, Takeshi
Japan Develops Water Pollution Control Technology, with Hisashi Sumitomo, CE:Nov 71:42
  TR:137:676

Goda, Yoshimi
Estimation of Wave Statistics from Spectral Information, WAVES:Sept 74:320
Wave Force on a Vessel Tied at Offshore Dolphins, with Tomotsuka Yoshimura, CE13:72:III-1723
Dsc, WW1:Feb 70:155:7049, of "Pressures of Standing Waves on Vertical Wall", WW1:Feb 69: 53:6408
Dsc, with Tomotsuka Yoshimura, WW2:May 73:285: 9694, of "Wave Defraction by Detached Breakwater", WW2:May 72:209:8869

Goddard, James E.
Flood-Plain Development Must be Ecologically and Economically Sound, CE:Sept 71:81
  Dsc: Joe G. Motheral, CE:Apr 72:79
  TR:137:584
Principles and Procedures in Flood Plain Management, with John W. Weathers, HY4:July 69:1321:6696
  Dsc: L. Douglas James, HY1:Jan 70:302:6988; Robert L. McFall, HY1:Jan 70:303:6988
  Clo: HY9:Sept 70:1877:7497
  TR:136:108

Goddard, Maurice K.
Our Water Maze, WQEF:Mar 70:107

Godden, William G.
Model Studies of Skew Multicell Girder Bridges, with Mohammad Aslam, EM1:Feb 73:201:9576
  TR:139:249
Structural Model Studies of Large Pipe Bifurcation, TE1:Feb 73:93:9549
  TR:139:174

Godfrey, Kneeland A., Jr.
ASCE Tackles Land Use Planning, CE:July 74:66
Consulting Firms Tackle Salary Guidelines, CE:Aug 73:77
  TR:139:370
Federal Breakthrough Program Spurs Innovation in U.S. Housing Technology, CE:Sept 70:73
  Dsc: Non-structure Costs in Housing, A. Tanel, CE:Mar 71:52; Albert M. Tantala, CE:July 71: 56
  TR:136:740
Land Application of Treated Sewage, CE:Sept 73:103
  Dsc: William J. Bauer, CE:Jan 74:24; S. Myron Tatarian, CE:Feb 74:24; F. Pierce Linaweaver, CE:Feb 74:24; Jeffrey D. Stansbury, CE:Mar 74: 28; Sherwood C. Reed, CE:Mar 74:30
  TR:139:430
New York State Spurs Housing, CE:Nov 71:53
  TR:137:702
Pavement Joint Seals, CE:Mar 72:42
  TR:138:127
Social and Environmental Factors in Design, CE:Sept 70:48
  TR:136:681
Sources of Computer Programs, CE:June 74:51
  Dsc: Michael P. Ingardi, CE:Sept 74; Walter D. Pilkey, CE:Oct 74:24
What's New in Sewer and Water Pipe, CE:May 74: 72
What's New in Water and Sewer Pipe, CE:Oct 70:46
  TR:136:894
See Harry R. Cedergren, CE:Sept 74:78
The 1970's: Civil Engineering Forecast-Part I, CE: Apr 70:68
  TR:136:278
The 1970's: Civil Engineering Forecast-Part II, CE: May 70:41
  TR:136:395
The 1970's: Civil Engineering Forecast-Part III, CE: July 70:51
  TR:136:528

Godfrey, Michael B.
Socio-Technical Programs in Civil Engineering at O.S.U., with Elbert E. Whitlatch, Jr., CEE:Feb 74: 1-713

Goedjen, Merle H.
Dsc, PP4:Oct 73:537:10040, of "The Civil Engineer of the Future - A Renaissance Man", PP1:Jan 73:9: 9489

Goel, Subhash C.
- Inelastic Earthquake Response of Tall Steel Frames, with Glen V. Berg, ST8:Aug 68:1907:6061
  - Dsc: John A. Blume, ST6:June 69:1374:6583
  - Clo: ST3:Mar 70:725:7116
  - TR:135:707
- P-delta and Axial Column Deformation in Aseismic Frames, ST8:Aug 69:1693:6738
  - TR:135:1025
- Seismic Behavior of Multistory Braced Steel Frames, with Robert D. Hanson, ST1:Jan 74:79:10288
- See Raj P. Gupta, ST7:July 72:1475:9038

Goel, Surendra K.
- Computer-Aided Processing of Design Specifications, with Steven J. Fenves, ST1:Jan 71:463:7839
  - Errata: ST2:Feb 72:508:8684
  - TR:137:508
- Computer-Aided Processing of Structural Design Specifications, with Steven J. Fenves, EC5:70:763
- Dsc, ST11:Nov 71:2759:8485, of "Integrated System For RC Building Design", ST1:Jan 71:13:7816
- Dsc, ST12:Dec 71:2892:8557, of "Formulation of Decision Logic Tables", ST1:Jan 71:439:7855

Goetsch, Herbert A.
- Promising Trends in Education in Public Works Engineering, CEE:Feb 74:2-114

Goff, James S.
- Remote Nozzle Permits High Production and Safety, SUSS:July 73:405

Goff, Joseph S.
- Conquering Conneaut Marsh, CE:May 69:43
  - TR:135:283

Gohren, Harald
- Deformation of Rotational Tidal Currents in Shallow Coastal Water, 12CEC:71:2147
- Instrument for Long-Term Measurement of Suspended Matter (Silt Gauge), with Hans Laucht, CE13:72:II-1089

Goldberg, Donald T.
- Session I: Densification During Placement (Rollers), PISST:71:1

Goldberg, John E.
- Analytical and Model Studies of Continuous Folded Plates, with Martin J. Gutzwiller and Robert H. Lee, EM5:Oct 68:1127:6181
  - TR:136:754
- Approximate Elastic Analysis, State-of-Art Report 2, TB:73:II-14-169
- Buckling Formulas for Design, TB:73:II-16-581
- Lateral Buckling of Braced Multistory Frames, ST12: Dec 68:2963:6307
  - Dsc: Kuang-Han Chu, ST6:June 69:1387:6583; Adel Helmy Salem, ST8:Aug 69:1781:6707
  - Errata: ST3:Mar 69:547:6430
  - Clo: ST7:July 70:1591:7386
  - TR:135:893
- Stability of Guyed Towers, with John T. Gaunt, ST4: Apr 73:741:9683
  - Dsc: Kurt G. Asmis, ST11:Nov 73:2331:10113; Anil K. Kar, ST11:Nov 73:2331:10113
  - Clo: ST7:July 74:1527:10637
  - TR:139:304
- Structural Analysis--Statics, Dynamics, and Stability by Moshe F. Rubenstein (Book Review), CE:Oct 72:18
- Dsc, ST1:Jan 70:161:6990, of "Buckling of Rigidly-Jointed Plane Trusses", ST6:June 69:1271:6628
- Dsc, with Richard K. Keplar, ST4:Apr 72:945:8802, of "Analysis of Horizontally Curved Box Girder Bridges", ST10:Oct 71:2481:8453
- See James L. Jorgenson, ST8:Aug 69:1743:6751
- See S. K. Radhamohan, ST6:June 71:1775:8216
- See Mohammed H. Baluch, ST9:Sept 72:1957:9203
- See Natarajan Annamalai, ST10:Oct 72:2235:9258

Goldberg, Michael B.
- See Vincent H. Chu, HY9:Sept 74:1203:10805

Goldbloom, Joseph
- Safety in Construction: Whose Responsibility, CE: Nov 69:42
  - TR:135:781
- Summary Report of Questionnaire on Construction Inspection, CO2:Sept 72:219:9192
  - Errata: CO1:July 73:223:9822
  - TR:139:284

Golden, Jack
- The Engineer and the EIS: Some NEPA Court Decisions, with Thomas R. Mongan, CE:Mar 74:49

Golder, Charles R.
- Presplitting and Rockbolts Cut Costs at Stockton Dam, CE:Jan 70:44
  - TR:136:13

Golder, Hugh Q.
- The Allowable Settlement of Structures, 4PCSM:71: I171
  - Dsc: Jacob Feld, 4PCSM:72:III147; F. Giuliani, 4PCSM:72:III151; J. L. Capacete, 4PCSM:72: III152; Oreste Moretto, 4PCSM:72:III156; Leonardo Zeevaert, 4PCSM:72:III166
  - Clo: 4PCSM:72:III170
- Predicted Performance of a Braced Excavation, with James P. Gould, T. William Lambe, Gregory P. Tschebotarioff and Stanley D. Wilson, SM3:May 70:801:7292
  - TR:136:928
- Dsc, SM1:Jan 69:425:6324, of "Ground Freezing in Construction", SM1:Jan 68:131:5743
- Dsc, SM10:Oct 73:900:10038, of "Comments on Conventional Design of Retaining Structures", SM2:Feb 73:181:9568

Goldin, Abraham S.
- See Dade W. Moeller, SA3:June 69:373:6589

Golding, Bernard L.
- Dsc, HY9:Sept 74:1301:10770, of "Master Planning Methodology for Urban Drainage", HY1:Jan 74: 189:10290

Goldman, Joseph L.
- Decrease in Maximum Hurricane Winds After Landfall, with Toshimitsu Ushijima, ST1:Jan 74: 129:10295
  - Errata: ST12:Dec 74:2527:10977

Goldscheider, M.
- Dsc, with G. Gudehus, GT9:Sept 74:1068:10769, of "Cubical Triaxial Tests on Cohesionless Soil", SM10:Oct 73:793:10057

Goldschmidt, Gunther
- Wet-Wells Volumes for Multipump Systems, IR3:Sept 74:371:10830

Goldschmidt, Victor W
- Dsc, EM6:Dec 68:1574:6260, of "Load Fluctuations in Turbulent Flow", EM1:Feb 68:31:5782
- See Michael K. Householder, EM6:Dec 69:1345:6961

Goldsmith, Martin
- Dsc, HY10:Oct 74:1493:10839, of "Geothermal Resource Investigations", HY11:Nov 73:2097: 10136

Goldsmith, Martin E.
- See Elizabeth J. McLean, MTI:May 72:267

Goldsmith, Victor
- Effects of Nonuniform Wave Energy in the Littoral Zone, with Joseph M. Colonell, 12CEC:71:767
- Forms of Erosion and Accretion on Cape Cod Beaches, with Joseph M. Colonell and Peter N. Turbide, CE13:72:II-1277
- See Miles O. Hayes, 12CEC:71:1187
- See Joseph M. Colonell, HYB:Aug 73:131

Goldsmith, William A.
Clay Slurry Sorption of Carrier-Free Radiocations, with W. Emmett Bolch, SA5:Oct 70:1115:7611
  TR:136:1068

Goldstein, Alfred
Evaluation of Urban Road Projects, PWS:Nov 72:203
Dsc, PWS:Nov 72:67, of "Recycling of Land Resources", PWS:Nov 72:57

Gole, Chintaman V.
Dsc, HY9:Sept 74:1279:10770, of "Minimum Length of Salt Intrusion in Estuaries", HY9:Sept 73:1475:10010
Dsc, with Zal S. Tarapore, Shashikant B. Brahme and Ulhas V. Purandare, WW4:Nov 74:411:10903, of "Regime Equations and Tidal Inlets", WW3:Aug 73:393:9952

Golley, Bruce W.
Investigation of Dynamic Taping, with John Sneddon, SU2:Nov 74:115:10938

Golombek, Sigmundo
Dsc, 4PCSM:72:III239, of "Financial Tools for a Geotechnical Consulting Firm", 4PCSM:71:II345

Golze, Alfred R.
Computer Controls for Aqueduct Operation, PL1:Oct 68:19:6145
  Clo: TE3:Aug 71:575:8268
  TR:136:536
Edward Hyatt (Orville) Underground Power Plant, PO2:Mar 71:419:7950
  Dsc: Lewis H. Tuthill, PO4:Dec 71:884:8554
  Clo: PO1:June 72:169:8927
  TR:137:546
Electric Utility Problems in Meeting Urban Planning Requirements, UP2:Sept 73:193:10016
  Errata: UP2:Nov 74:205:10902
  TR:139:513
Model Law to Improve Dam Safety, CE:Mar 71:53
  Dsc: Asit K. Biswas, CE:June 71:40
  TR:137:216
Reaction to USCOLD's Proposed Law for Dam Safety, IMROD:Sept 73:282
Use of Pipelines in the California Water Project, PL3:Nov 67:25:5584
  Dsc: Bernard P. Bellport, PL1:Oct 68:198:6133; Robert T. Tillotson, PL1:Oct 68:199:6133
  Clo: TE1:Feb 70:112:7048
  TR:135:681
Dsc, PO2:Oct 67:104:5479, of "Dam Safety-An Objective of Federal Licensing", PO1:Mar 67:67:5155
Dsc, IR4:Dec 69:617:6930, of "Role of Irrigation in the West's Expanding Economy", IR4:Dec 68:401:6281

Gomez, Amalio
Competition for Recreation Water in California, with Dale A. Crane, IR3:Sept 68:295:6109
  Dsc: Paul F. Keim, IR3:Sept 69:443:6753; Charles A. McCullough, IR3:Sept 69:444:6753; Hyman J. Fine and Frank T. Wooton, Jr., IR4:Dec 69:603:6930; John D. Bristor, IR4:Dec 69:603:6930
  Clo: IR3:Sept 70:335:7498
  TR:135:852

Gonano, Louis P.
See Edwin T. Brown, TN: GT2:Feb 74:196:10310

Gonzales, John G.
Students Revitalize On-Campus Lake, with Paul A. Ferrari, CE:June 71:38
  TR:137:400

Gonzales, Ricardo, Jr.
See Alfred C. Ingersoll, EI1:Jan 74:45:10301
See William D. Brinckloe, CE:Sept 74:99

Goodenough, Bertram W.
Dsc, CE:Dec 72:31, on Subsurface Freezing Used In Tunneling, CE:May 72:37

Goodier, Leslie J.
Deepwater Ports for Superships, CE:Nov 73:45
  TR:139:483

Goodkind, Donald R.
Dsc, PP3:July 73:416:9824, of "The Civil Engineer of the Future - A Renaissance Man", PP1:Jan 73:9:9489

Goodkind, Michael N.
Engineering Education Versus Engineering Practice, CEE:Feb 74:1-452
A Funny Thing Happened On The Way To The Forum, CE:Dec 73:79
Hello Columbus, CE:July 74:98

Goodman, Alvin S.
Dsc, with Austin E. Brant, Jr., WW4:Nov 68:513:6204, of "Berth Planning by Evaluation of Congestion and Cost", WW4:Nov 67:107:5577
See Leonard A. Lovell, PO1:May 68:67:5946

Goodman, Brian L.
Package Plants-Past, Present and Future, CE:Feb 69:62
  Dsc: J. F. Adams, CE:May 69:46
  TR:135:95

Goodman, James R.
Orthotropic Elastic Properties of Wood, with Jozsef Bodig, ST11:Nov 70:2301:7682
  Dsc: Gary Uthenwoldt, ST9:Sept 71:2427:8348
  Clo: ST4:Apr 72:931:8802
  TR:137:461
See Adam Al-Dabbagh, ST3:Mar 72:569:8784
See M. Daniel Vanderbilt, ST1:Jan 74:11:10274

Goodman, Lawrence E.
Dsc, CE:Feb 72:63, on Article Three and the Department of Justice, CE:Sept 71:47

Goodman, Leon
Implementing an Exclusive Bus Lane on the New Jersey Approaches to the Lincoln Tunnel, NA:Mar 71:149

Goodman, Michael
Dsc, CE:Dec 71:70, on USBR Specifications Focus on Environment, CE:July 71:50

Goodman, Richard E.
Duplication of Dilatancy in Analysis of Jointed Rocks, with Jacques Dubois, SM4:Apr 72:399:8853
  Errata: SM2:Feb 73:224:9524
  TR:138:274
A Model for the Mechanics of JointedRock, with Robert L. Taylor and Tor L. Brekke, SM3:May 68:637:5937
  Dsc: Mircea S. Vasilescu, SM3:May 69:899:6525
  Clo: SM1:Jan 70:298:6989
  TR:135:263
On Model Studies for Tunnels in Jointed Rock, with Francois E. Heuze and Gilles J. Bureau, RM14:73:441
Dsc, SM2:Mar 69:698:6429, of "Graphical Stability Analysis of Slopes in Jointed Rock", SM2:Mar 68:497:5865
See Francois E. Heuze, RM13:72:397
See Francois E. Heuze, URC:72:531

Goodpasture, David W.
See Edwin G. Burdette, ST3:Mar 73:335:9627

Goodrich, John C.
Environmental Impact of the New Jersey Turnpike Toms River Extension, with Byron H. Willis, UT73:May 73:253

Goodspeed, Charles H.
Conditioning of Structural Flexibility Matrix, with Michael J. Martin, ST8:Aug 74:1677:10763

Goodspeed, Morley J.
Dsc, HY10:Oct 72:1879:9222, of "New Approach to Hydrologic Data Acquisition", HY12:Dec 71:1965:8578

Goodwin, P. X.
See E. T. Hanrahan, SM1:Jan 70:321:689

Goolsby, David E.
See Ernst W. Kiesling, CE:Sept 74:105

Gopalacharyulu, S.
Cantilever Cylindrical Shells Under Assumed Wind Pressures, with D. J. Johns, EM5:Oct 73:943:10085
  Dsc: V. N. Tanniru, EM6:Dec 74:1259:10972
  TR:139:476

Gopalakrishnan, Krishnamurthy
Dsc, WW2:May 72:286:8863, of "Wave Forecasting for the West Coast of India", WW3:Aug 71:505:8303
Dsc, with John F. Kennedy, HY2:Feb 73:378:9523, of "Laboratory Study of Transport of Fine Sand", HY3:Mar 72:489:8765
Dsc, HY11:Nov 74:1729:10898, of "Developing Region in Self-Aerated Flows", HY4:Apr 74:553:10501

Gopalakrishnan, N.
Dsc, with Jawalker K. Sridhar Rao, ST4:Apr 70:853:7191, of "Safety Factors and Probability in Structural Design", ST7:July 69:1389:6667

Gopalakrishnan, Thiruvannamalai C.
See Harihar Raman, WW2:May 73:290:9694

Gopala Krishnayya, Abbanki V.
Behavior of Compacted Soil in Tension, with Zdenek Eisenstein and Norbert R. Morgenstern, GT9:Sept 74:1051:10828

Gorczyca, Miroslaw
Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, SA6:Dec 72:987:9458
  TR:138:580

Gordon, Bernard B.
Seismic Stability of Upper San Leandro Dam, with David J. Dayton and Khosrow Sadigh, GT5:May 74:523:10553

Gordon, Clarence T
Conventionally Reinforced Nuclear Containments, with William L Klehm, ST2:Feb 70:199:7065
  Dsc: Chen Pang Tan, ST6:June 70:1260:7314
  Clo: ST12:Dec 70:2669:7714
  TR:136:542

Gordon, Fred Guyon
Memoir of, TR:135:1126

Gordon, Grant P.
Critique of Designs and Specifications, ECCD:72:201

Gordon Melvin & Partners
Government Offices and Conference Center (Nairobi), TB:73:C-P-436

Goree, James G.
See Herbert W. Busching, EM2:Apr 74:359:10493

Gorfain, Daniel
Dsc, UP1:Mar 70:98:7119, of "Environmental Health and Community Planning", UP1:Aug 68:23:6084

Gormley, John F.
Nonsymmetric Modes of Complete Spherical Shells, with William C. L. Hu, EM3:June 69:545:6606
  TR:136:632

Gorzynski, James W.
Dynamic Stability Matrix for Planar Beams, with William A. Thornton, TN: EM4:Aug 74:823:10692
See William A. Thornton, ST12:Dec 73:2502:10185

Gosschalk, E. M.
Dsc, with J. S. Colombi, HY4:Apr 72:717:8799, of "Some Factors Influencing Required Reservoir Storage", HY7:July 71:977:8227

Goswami, Santosh R.
Dsc, SA4:Aug 71:542:8269, of "Evaluation of Some Stabilization Ponds in India", SA1:Feb 71:91:7912
Dsc, CE:Sept 71:67, on Graphic Dissolved Oxygen Computation, CE:Mar 71:60
Dsc, SA6:Dec 71:946:8555, of "Optimization in Design of Hydraulic Network", SA2:Apr 71:141:8032
Dsc, SA6:Dec 72:1053:9393, of "Design and Economics of Joint Wastewater Treatment", SA1:Feb 72:153:8746
Dsc, SA6:Dec 72:1056:9393, of "Research Needs in Sanitary Engineering", SA2:Apr 72:299:8833
Dsc, EE1:Feb 73:95:9521, of "Manning's Coefficient for Smooth Pipes", SA2:Apr 72:353:8830
Dsc, EE1:Feb 73:99:9521, of "Hydraulic Treatment Efficiency of Waste Stabilization", SA2:Apr 72:407:8849

Gotaas, Harold B.
Design Optimization for Biological Filter Models, with William S. Galler, EE6:Dec 73:831:10191
  Dsc: John M. Baker and Quintin B. Graves, EE5:Oct 74:1190:10836
  TR:139:443
See Harvey E. Jobson, CE:Apr 71:41

Gottemoeller, Frederick
See Grant S. Anderson, CE:Sept 72:74

Goudreau, Gerald L.
Dsc, ST2:Feb 69:283:6373, of "Matrix Distribution", ST4:Apr 68:1043:5918

Goughnour, Roy R.
Mechanical Properties of a Sand-Ice System, with Orlando B. Andersland, SM4:July 68:923:6030
  Dsc: Waddah Akili, SM3:May 69:921:6525
  Clo: SM1:Jan 70:301:6989
  TR:135:857
Mechanical Properties of a Sand-Ice System, with Orlando B. Andersland, PISST:71:287
  Dsc: Waddah Akili, PISST:71:315
  Clo: PISST:71:318

Gould, Bernard W.
Dsc, HY1:Jan 73:270:9459, of "Bias in Computed Flood Risk", HY3:Mar 72:415:8766

Gould, Charles L.
Pollution, Politics and Protest, PP1:Oct 71:23:8468
  Dsc: Richard Reed Potts, PP3:July 72:466:9001
  TR:138:39
Putting Pollution Problems In Perspective, CE:Aug 73:64
  Dsc: Harold E. Weber, CE:Nov 73:22; Stanley I. Hart, CE:Feb 74:22
  TR:139:362

Gould, James P.
Accuracy of Field Deformation Measurements, with C. John Dunnicliff, 4PCSM:71:I313
  Dsc: Robert J. Conlon, 4PCSM:72:III211; Arthur D. Penman, 4PCSM:72:III218; L. Anthony Wolfskill, 4PCSM:72:III223
  Clo: 4PCSM:72:III234
Design of Temporary Retaining Structures for the Washington Subway System, PES:73:III-251
Lateral Pressures On Rigid Permanent Structures, LS:70:219
See Hugh Q. Golder, SM3:May 70:801:7292
See Salvatore V. DeSimone, PES:72:I-953

Gould, Phillip L.
Column Moments in Eccentrically Supported Tanks, with Subir K. Sen, TN: ST10:Oct 74:2165:10858

Differential Settlement of Hyperbolic Cooling Towers, ST10:Oct 72:2207:9252
TR:138:487
Hyperboloids of Revolution Supported on Columns, with Seng-Lip Lee, EM.5:Oct 69:1083:6820
Dsc: David G. Elms, EM3:June 70:372:7309
Clo: EM1:Feb 71:131:7862
TR:136:312
Minimum Weight Design of Hyperbolic Cooling Towers, ST2:Feb 69:203:6395
TR:135:938
Unsymmetrically Loaded Hyperboloids of Revolution, EM5:Oct 68:1029:6144
Errata: EM4:Aug 69:1007:6705
TR:135:613
See Seng-Lip Lee, ST5:Oct 67:487:5532
See Subir K. Sen, TN: ST3:Mar 73:595:9629
See Subir K. Sen, EM2:Apr 74:283:10488
See Robert S. C. Wang, ST10:Oct 74:2037:10876

Gould, Richard H.
Dsc, SA5:Oct 68:1041:6485, of "Time-Varying Dissolved Oxygen Model", SA2:Apr 68:381:5915

Gourlay, Michael R.
Dsc, IR3:Sept 70:351:7498, of "Flow Retardance in Vegetated Channel ", IR2:June 69:329:6633
Dsc, HY12:Dec 70:2645:7711, of "Initial Instability of Fine Bed Sand", HY3:Mar 70:619:7139
Dsc, WW1:Feb 71:219:7868, of "Piling-Up Behind Low and Submerged Permeable Breakwaters", WW2:May 70:359:7283
Dsc, WW1:Feb 74:54:10308, of "Waves Off Manalore Harbor - West Coast of India", WW1:Feb 73:39:9532
Dsc, HY5:May 74:699:10505, of "Flexible Roughness in Open Channels", HY5:May 73:713:9723

Gouwens, Albert J.
See Kuang-Han Chu, TN: EM4:Aug 71:1329:8273

Govatos, George C.
Dsc, CE:Mar 73:75, on Best Shore Protection: Nature's Own Dunes, CE:Sept 72:66
See Iraj Zandi, HY3:May 67:145:5244

Govil, Ashok K.
See Bharat L. Mehrotra, ST1:Jan 72:287:8665

Govindarajan, Rangachari
See J. Paul Tullis, HY3:Mar 73:417:9605

Gowda, Tagadur P. Halappa
Dsc, EE6:Dec 73:959:10180, of "Desorption and Retentivity of Filtering Materials", SA6:Dec 72:937:9401

Gower, L. Elvin
Laminated Timber Used in High-Rise Mill Building, CE:Dec 71:40
TR:137:765

Goyal, Atul C.
See Anand S. Arya, EM2:Apr 71:317:8010

Goyal, Brij B.
Slender Concrete Columns Under Sustained Load, with Neil Jackson, ST11:Nov 71:2729:8544
Dsc: Jostein Hellesland and Roger Green, ST9:Sept 72:2122:9159; Robert F. Warner, ST9:Sept 72:2124:9159; Asko Sarja, ST11:Nov 72:2632:9307
Clo: ST5:May 73:951:9693
TR:138:35
Dsc, ST7:July 71:2025:8225, of "Effects of Creep and Shrinkage on Prestressed Concrete Columns", ST10:Oct 70:2103:7614

Goyle, Harry M.
See James D. Murff, TN: SM11:Nov 73:1033:10/48

Gozikowski, R. J.
Oxygen Sewage-Treatment Process Handles Shock Loads, Cuts Odors, with R. H. Oeler, CE:Aug 74:49
Errata: CE: 74:34

Graber, S. David
See Thomas R. Camp, SA1:Feb 68:31:5781
See Thomas R. Camp, HY12:Dec 70:2631:7711
See Thomas R. Camp, SA6:Dec 71:903:8605
See Thomas R. Camp, HY4:Apr 72:728:8799

Grace, John L., Jr.
See Joseph P. Bohan, HY12:Dec 70:2401:7757
See Forrest M. Holly, Jr., HY11:Nov 72:1921:9365

Grace, Robert A.
Ocean Wave Forces on a Subsurface Sphere, with Frederick M. Casciano, WW3:Aug 69:291:6722
Dsc: Robert G. Dean and Robert A. Dalrymple, WW3:Aug 70:733:7443
Clo: WW1:Feb 71:207:7868
TR:136:706

Grady, C. P. Leslie, Jr.
See Ralph E. Roper, Jr., EE4:Aug 74:1048:10693
See Richard E. Muck, EE5:Oct 74:1147:10848

Graeub, Wm. Campbell
Impact of Environmental Controls on Highways, with Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
TR:138:219
Dsc, with Gerald L. Baker and H. F. Sommerschield, CE:May 69:39, on Architects and Highways, CE:Feb 69:37

Graf, Edward D.
Compaction Grouting Technique and Observations, SM5:Sept 69:1151:6766
Dsc: Sachinder N. Gupta, SM3:May 70:1072:7249
Clo: SM1:Jan 71:242:7785
TR:136:91
Lime is not a panacea, CE:July 74:47
Clo: Edward D. Graf, CE:Sept 74:149
Summary — Foundations for Dams, EFFD:Mar 74:465
Dsc, SM2:Mar 69:653:6429, of " Guide Specifications for Chemical Grouts", SM2:Mar 68:345:5830
Dsc, with Harpal S. Arora, PES:73:III-105, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589

Graf, Walter H.
Freeman Grant To Lehigh Professor, CE:Sept 73:113
Homogeneous Suspensions in Circular Conduits, with Ertan R. Acaroglu, PL2:July 67:63:5352
Dsc: David I. H. Barr and John F. Riddell, PL1:Oct 68:182:6133; Robert R. Faddick, PL1:Oct 68:185:6133
Clo: TE1:Feb 70:111:7048
TR:135:411
Tests on Cylinders in Turbulent Flow, with Stephen C. Ko, TN: HY8:Aug 71:1265:8274
See Richard N. Weisman, WW4:Nov 68:453:6232
See Sebastian W. Bauer, IR1:Mar 71:73:7987
See Stephen C. Ko, HY5:May 72:897:8920
See Millard P. Robinson, Jr., HY7:July 72:1221:9060
See Oner Yucel, HYB:Aug 73:55
See Farid Mansour, HY9:Sept 73:1627:9961

Graham, James
Scale and Boundary Effects in Foundation Analysis, with John Gordon Stuart, SM11:Nov 71:1533:8510
TR:137:1038
Dsc, SM2:Mar 69:630:6429, of "Applications of Limit Plasticity in Soil Mechanics", SM5:Sept 67:101:5424
Dsc, SM10:Oct 73:897:10038, of "Analysis of Ultimate Loads of Shallow Foundations", SM1:Jan 73:45:9480
See William James Neely, SM9:Sept 73:669:9980

Graham, James R.
Opening Remarks, SUSS:July 73:1
Polymer Shotcrete, SUSS:July 73:418
Dsc: Robert C. Bates, SUSS:July 73:431
Clo: SUSS:July 73:434
Spillway Stilling Basin Repair Using Bonded Concrete and Epoxy Mortar, OIDS:72:185
Use of Curing Compounds on Horizontal Construction Joints, ECCD:72:55

Graham, John F.
Bikeway Planning/Construction - A PR Tool, BP73: Dec 73:200

Graham, Roland R., Jr.
Glossary of Terms Pertaining to Structural Steel Engineering and Design, ST8:Aug 71:2137:8322
Dsc: Maxwell G. Lay, ST2:Feb 72:536:8684
Clo: ST6:June 73:1311:9763
TR:139:2

Graham, Thomas A.
New York City Hacks Through Capital Construction Jungle, CE:Apr 72:60
TR:138:199

Gramolin, I.
See E. James White, TB:73:Ib-9-901

Grams, William H.
See Paul F. Gnirk, RM14:73:589

Granger, J. R.
Blasting Mass-Concrete at Grand Coulee Dam, CE: Aug 71:28
TR:137:491

Granju, Jean-Pierre P.
See Jack M. Garrison, HY5:Sept 69:1559:6771

Granstrom, Anders
Dsc, ST1:Jan 72:360:8623, of "Behavior of Continuous Crane Rails", ST4:Apr 71:1081:8067

Granstrom, Marvin L.
See Mu-Hao Wang, EE3:June 74:629:10574

Grant, Albert A.
Civil Engineering Education - A Mechanism for Interaction with Urban Practice (Discussion), CEE: Feb 74:2-325
See Wm. Campbell Graeub, TE2:May 72:263:8906
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Grant, Joseph E.
Response Computation Using Truncated Taylor Series, EM2:Apr 71:295:8019
Dsc: Robert E. Ball, EM5:Oct 71:1584:8406
Clo: EM3:June 72:749:8924
TR:137:885

Grant, Joseph L.
How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal, PP2:Apr 73:159:9663
Dsc: Elmer K. Timby, PP2:Apr 73:166:9638
TR:139:239

Grant, Lewis O.
Priority Problems for Modifying Cumulus Precipitation, IR73:Aug 73:131

Grant, Nigel P.
See Keith A. Henry, PO1:May 68:41:5940

Grant, Rebecca
Differential Settlement of Buildings, with John T. Christian and Erik H. Vanmarcke, GT9:Sept 74: 973:10802

Grant, Robert G.
Dsc, with Robert L. Mann, EM5:Oct 71:1573:8406, of "Inelastic Buckling of Axisymmetric Shells", EM6:Dec 70:1107:7765

Grantham, George R.
Model for Flow Augmentation Analysis-An Overview, with Edwin E. Pyatt, James P. Heaney and Buford J. Carter, Jr., SA5:Oct 70:1045:7578
TR:136:1131
Water Quality Simulation Model, with John C. Schaake, Jr. and Edwin E. Pyatt, SA5:Oct 71:569: 8429
Dsc: Pio S. Lombardo, SA2:Apr 72:468:8800; Edward A. McBean, SA3:June 72:603:8928; Nigel M.D. Green, SA4:Aug 72:669:9077
Clo: EE1:Feb 73:88:9521
TR:138:57

Grass, Anthony J.
Initial Instability of Fine Bed Sand, HY3:Mar 70:619: 7139
Dsc: Michael R. Gourlay, HY12:Dec 70:2645: 7711; Hans Vollmers and Egon Giese, HY12: Dec 70:2649:7711
Clo: HY10:Oct 71:1751:8407
TR:136:1219

Grass, Luther B.
Deterioration of Concrete Ditch Liners in Saline-Alkali Soil, with Paul Koluvek, IR4:Dec 74:477: 10997
Restoring Subsurface Drain Performance, with Arnold J. MacKenzie, IR1:Mar 72:97:8759
TR:138:90

Grasser, Emil
Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, with F. Daschner, TB:73:III-21-290
Serviceability, TB:73:III-22-465

Grau, Harry C.
Sediment and Storm Water Control for Fossil Power Plants, EPCE:Aug 74:339

Grauzinis, Visvaldas J.
Analysis of Nonlinear Random Wave Problems, WAVES:Sept 74:74
Dsc, WW3:Aug 70:747:7443, of "Wave Refraction Near San Pedro Bay, California", WW3:Aug 69: 379:6749

Grava, Sigurd
The Civil Engineer in Urban Affairs and Planning, CEE:Feb 74:1-173

Graves, Quintin B.
See John M. Baker, SA1:Feb 68:65:5798
See John M. Baker, EE5:Oct 74:1190:10836

Gravina, Pietro
Dsc, ST2:Feb 70:436:7047, of " Horizontally Curved Girders-State of the Art", ST5:May 69:853:6546

Gray, Charles S.
Standards in Great Britain, State-of-Art Report 4A, with Leslie V. Leech, TB:73:II-13-51

Gray, Don M.
See Donald I. Norum, IR2:June 70:111:7331

Gray, Donald A.
Safety of Dams - Bureau of Reclamation, HY2:Feb 74:267:10354
See Garry H. Austin, HY6:Nov 69:1793:6877

Gray, Donald H.
Engineering Properties of Compacted Fly Ash, with Yen-Kuang Lin, SM4:Apr 72:361:8840
Dsc: Dimtcho Evstatiev, SM2:Feb 73:221:9524
TR:138:253
The Hydrology and Stability of Cutover Slopes, with R. Peter Brenner, IAWM:72:295

Properties of Compacted Sewage Ash, SM2:Mar 70:439:7149
  TR:136:587
Reinforcement and Stabilization of Soil by Vegetation, TN: GT6:June 74:695:10597
Thixotropic Behavior of Compacted Clays, with Nouri A. Kashmeeri, SM1:Jan 71:193:7857
  TR:137:882

Gray, Edward W., Jr.
At Glen Elder Dam: Improved Soil-Cement Placement Procedure Used, CE:May 69:36
  TR:135:559
Construction Pore Pressure Dissipation in Earth Dams, PES:73:III-295

Gray, George A.
See Dan H. Pletta, PP1:Oct 71:131:8474

Gray, K. E.
See H. Douglas Dahl, RM14:73:747

Gray, Leo R.
Dsc, IR2:June 70:223:7311, of "Role of Irrigation in the West's Expanding Economy", IR4:Dec 68:401:6281

Gray, Mack H., III
Dsc, WW2:May 68:244:5924, of "Fluid Mechanics and Lock Design", WW3:Aug 67:9:5365
Dsc, HY1:Jan 70:296:6988, of "Surging in Laboratory Pipeline with Steady Inflow", HY3:May 69:961:6573

Gray, Nomer
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Gray, Oscar S.
Keynote Address, ABS:71:1

Gray, Paul
See Inder K. Sud, TE4:Nov 73:935:10174

Gray, R. Fred
Cooling Water Studies at Electric Power Station, with J. Ben Stephenson, PO2:Oct 69:293:6853
  TR:136:230

Gray, Richard E.
Book Review: Cities and Geology, CE:Oct 73:106
Book Review: Focus On Environmental Geology -- A Collection Of Case Histories And Readings From Original Sources, CE:Aug 73:28
Mine Subsidence and Support Methods in Pittsburgh Area, with James F. Meyers, SM4:July 70:1267:7407
  TR:136:992
Dsc, with Henry A. Salver, SM5:Sept 70:1814:7499, of "Building Damage From Expansive Steel Slag Backfill", SM6:Nov 69:1325:6879
Dsc, with Henry A. Salver, PISST:71:253, of "Building Damage from Expansive Steel Slag Backfill", PISST:71:235
Dsc, with Henry A. Salver, SM1:Jan 71:258:7785, of "State of Predictive Art in Subsidence Engineering", SM2:Mar 70:721:7187
Dsc, with T. D. Donovan, 4PCSM:72:III127, of "Slope Stability in Residual Soils", 4PCSM:71:I87

Graze, Harald R.
Dsc, HY3:Mar 71:455:7940, of "Pressure Surge Attenuation Utilizing an Air Chamber", HY5:May 70:1143:7267

Greated, C. A.
Particle Velocity Measurements with a Laser Device, with Norman B. Webber, 12CEC:71:1951

Greathouse, Daniel G.
See Robert M. Clark, SA6:Dec 72:897:9424

Grecco, William L.
See Thomas J. Hillegass, UP1:Mar 70:17:7126

Green, A. C.
See Mark D. Sobsey, EE3:June 73:245:9778

Green, David R.
See Colin B. Brown, ST4:Apr 68:905:5888

Green, Gordon E.
See Denys W. Reades, GT9:Sept 74:1065:10769

Green, Kenneth D.
Green Appointed to High Australian Government Post, CE:May 72:94

Green, Nigel M.D.
Dsc, SA4:Aug 72:669:9077, of "Water Quality Simulation Model", SA5:Oct 71:569:8429

Green, Preston Murdoch
Memoir of, TR:136:1349

Green, Ralph F.
See Roger P. Betson, HY6:Nov 68:1489:6256

Green, Robert J.
Dynamics of Impulsively Loaded Circular Plates, EM2:Apr 71:413:8079
  TR:137:194
Penetration of Beam on Plastic Foundation, TN: EM6:Dec 71:1769:8559

Green, Roger
See Jostein Hellesland, ST4:Apr 71:1113:8033
See Jostein Hellesland, ST9:Sept 72:2122:9159

Green, William R.
Dsc, CE:July 74:26, on After Agnew: What's Happening in the Profession, CE:Feb 74:43

Greenberg, Donald P.
Inelastic Analysis of Suspension Roof Structures, ST5:May 70:905:7284
  Dsc: Eberhard Haug and Graham H. Powell, ST4:Apr 71:1360:8015
  TR:137:445

Greenberg, James A.
See James K. Mitchell, SM4:Apr 73:307:9678

Greenberg, Max E.
Changes and Changed Conditions, CEWAU:74:177
Role of Contract and Specifications in Foundations Construction, CO2:June 74:113:10607
  Errata: CO4:Dec 74:658:10970

Greene, William E., Jr.
Stochastic Models and Live Load Surveys, State-of-Art Report 2B, TB:73:Ib-5-35

Greene, William L.
See Carmen F. Guarino, SA1:Feb 70:1:7050

Greenebaum, Louise
Dsc, EI1:Jan 74:81:10252, of "The Civil Engineer of the Future - A Renaissance Man", PP1:Jan 73:9:9489

Greenfield, B. James
See George Kisak, CE:Feb 71:67

Greengard, Arthur J., Jr.
See Michael Alexander, CE:Aug 69:51

Greenman, David W.
See Clark N. Crain, IR1:Mar 69:79:6439

Greenstein, Jacob
See Moshe Livneh, SM10:Oct 71:1491:8410
See Moshe Livneh, SM2:Feb 72:232:8683

Greenwald, Ronald
New Centers for Regional Development, CE:Sept 69:79
  TR:135:812

Greenwald, Theodore W.
See Neal B.H. Benjamin, CO1:July 73:175:9888

Greenwood, D. A.
Dsc, with I. W. Farmer, 4PCSM:72:III172, of "Effects of Foundation Construction on Nearby Structures", 4PCSM:71:I189

Greenwood, Mark E.
See V. James Meyers, ST11:Nov 72:2381:9323

Greenwood, R. H.
Steam Jet Force Decay, SDNPF:Dec 73:591

Gregg, Howard
Construction and Maintenance, BP73:Dec 73:155

Gregg, John C.
Nitrate Removed at Water Treatment Plant, CE:Apr 73:45
  Dsc: Otto W. Steinhardt, CE:July 73:22
  TR:139:162

Gregory, Constantine J.
See William P. Darby, EE3:June 74:577:10577

Gregory, Ross
Dsc, SA4:Aug 72:680:9077, of "Backwashing of Granular Water Filters", SA6:Dec 71:903:8605
Dsc, EE3:June 74:782:10564, of "Design of High-Rate Settlers", EE5:Oct 73:621:10051

Gregory, William S.
See E. I. Onstott, EE6:Dec 73:897:10196

Grenley, Dallas
Chemical Resistant Resurfacing Mortar for Industry, with Lou Kuhlmann, CO2:June 74:133:10603

Grenney, William J.
See David A. Bella, SA6:Dec 70:1361:7744
See David A. Bella, TN: HY3:Mar 72:585:8754

Gressley, Gene M.
Dsc, History of Water Resource Development, CE: Mar 72:61

Greulich, Gunther
Dsc, SU2:Nov 72:237:9308, of "Status Report of Surveying and Mapping Division", SU2:Nov 71:267:8532

Gribaldo, Albert C
The Civil Engineer in Appointed Public Positions, PP3:July 73:361:9880
  TR:139:371

Grider, Ronald M.
Dsc, CO4:Dec 74:653:10970, of "Basic Construction Principles in Higher Latitudes", CO1:Mar 74:33:10399

Griek, Martin R.
See Alan F. Huggins, HY7:July 74:901:10671

Grierson, Donald E.
Collapse Load Analysis Using Linear Programming, with Graham M. L. Gladwell, ST5:May 71:1561:8127
  Dsc: Jack I. Nicholls and Clayton E. Lofthus, ST11:Nov 71:2769:8485; Erol Yarimci, ST1:Jan 72:372:8623; Geerhard Haaijer, ST2:Feb 72:516:8684; Egor P. Popov and James L. Tocher, ST11:Nov 72:2626:9307
  Clo: ST5:May 73:947:9693
  TR:137:935
Deformation Analysis of Elastic - Plastic Frames, ST10:Oct 72:2247:9288
  TR:138:499
See Saleh B. Abdel-Baset, ST11:Nov 73:2215:10128
See Mir M. Ali, EM5:Oct 74:839:10859

Griesshaber, E. H.
First Long-Distance Iron Slurry Pipeline, CE:Jan 69:66
  TR:135:50

Grieves, Robert B.
Optimization of the Ion Flotation of Dichromate, with Gregory A. Ettelt, J. Thomas Schrodt and Dibakar Bhattacharyya, SA3:June 69:515:6610
  TR:135:101

Griffin, Charles W., Jr.
Dsc, CE:May 72:40, on Engineering and Today's Social Problems, CE:Mar 72:64
Dsc, CE:Jan 74:22, on "Quo Vadis, ASCE?", CE: June 73:59
Dsc, CE:June 74:24, on After Agnew: What's Happening In The Profession, CE:Mar 74:52

Griffin, Robert H.
Dsc, CE:Oct 73:26, on Ludington, Mich., Pumped Storage Project, CE:June 73:64

Griffis, Fletcher H.
Optimizing Haul Fleet Size Using Queueing Theory, CO1:Jan 68:75:5753
  Dsc: James Douglas, CO1:July 69:134:6640; Robert L. Peurifoy, CO1:July 69:135:6640
  TR:135:1054

Griffith, Alvin R.
See Subhash C. Anand, EM5:Oct 73:927:10063

Griffiths, Annabel C.
See Cornelius W. Kruse, NSCD:71:113

Grigalis & Associates
Crestline Apartments, TB:73:C-P-458

Grigg, Neil S.
Legal Constraints on Urban Water Systems, UP2:Sept 73:137:9986
  TR:139:422
Motion of Single Particles in Alluvial Channels, HY12:Dec 70:2501:7770
  Dsc: Harvey E. Jobson and Carl F. Nordin, HY9: Sept 71:1541:8345
  Clo: HY3:Mar 72:568:8749
  TR:137:551
Dsc, HY9:Sept 74:1289:10770, of "Need for Metropolitan Water Balance Inventories", HY10: Oct 73:1837:10078

Grigg, W. L.
Some Design Aspects of a Divided Gate Tower, with Robert E. Johnson and Rolf Kellerhals, PO2:Oct 67:1:5482
  Dsc: Mircea S. Vasilescu, PO2:Nov 68:238:6201
  Clo: PO2:Oct 69:353:6801
  TR:135:414

Griggs, John R.
See Lloyd E. Myers, IR3:Sept 67:79:5413

Griggs, P. Harvey
Buckling of Reinforced Concrete Shells, EM3:June 71:687:8173
  TR:137:987

Grimm, Clayford T.
Masonry Construction Operations, CO2:June 74:171:10630
Weather Effects on Mason Productivity, with Norman K. Wagner, CO3:Sept 74:319:10783
See James T. Houston, CO1:July 73:5:9839

Grimm, Sergei N.
Dsc, PP4:Oct 72:726:9224, of "Guidelines for Engaging in Public Affairs Activities, by the Committee on Public Affairs of the Member Activities Division", PP1:Oct 71:167:8480

See E. J. Kilcawley, SA3:June 69:667:6582

Grinter, Linton E.
Dsc, ST9:Sept 72:2127:9159, of "Hardy Cross and the Rise of Numerical Methods", ST3:Mar 72:691:8762

Grogan, John C.
See Russell H. Brown, CO2:June 74:189:10563

Grogan, William R.
See Armand J. Silva, CEE:Feb 74:1-64

Gromko, Gerald J.
Review of Expansive Soils, GT6:June 74:667:10609

Gronquist, Carl H.
Brooklyn Bridge Superstructure -- 1876-1973 and Beyond, with Blair Birdsall, CEWAU:74:52
Dsc, CE:Jan 73:52, on Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61

Groom, Graham M
Dsc, ST9:Sept 70:1975:7567, of "Box Girder Model Studies", ST12:Dec 69:2845:6966

Grooms, Henry R
Algorithm for Matrix Bandwidth Reduction, ST1:Jan 72:203:8636
  Dsc: Mark F. Nelson and Jorge Hildago, ST12: Dec 72:2820:9395
  Clo: ST6:June 73:1321:9763
  TR:139:18

Gross, M. Grant
See T. John Conomas, SA5:Oct 68:979:6187

Grossman, Donald
Waste Generation Models for Solid Waste Collection, with James F. Hudson and David H. Marks, EE6: Dec 74:1219:11022

Grossman, Irving
Dsc, SA2:Apr 70:523:7190, of "Shakedown of Bars in Bending and Tension", EM3:June 69:519:6595
Dsc, SA2:Apr 70:623:7190, of " Regional Water Quality Standards", SA3:June 69:423:6596

Grosson, Joseph
See Patricio A. Laura, TN: EM1:Feb 71:145:7858

Groves, Richard H.
Rapid Excavation With Explosives, with Robert L. LaFrenz, CE:Aug 72:60
  TR:138:380

Growdon, James Paul
Memoir of, TR:135:1116

Grubert, John P.
Numerical Computation of Stratified Nearly Horizontal Flows, with Michael B. Abbott, HY10: Oct 72:1847:9300
  Errata: HY3:Mar 73:551:9580
  TR:138:530
See Michael B. Abbott, ISSF:Aug 72:113

Gruendler, James D.
Barometric Leveling Analysis, with Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
  Dsc: R. Robinson Rowe, SU1:Sept 73:136:9965
  TR:139:156
Evaluation of Barometric Leveling, with James L. Clapp and Paul R. Wolf, SU1:Apr 70:1:7195
  TR:136:702

Gruenwald, Ernst
Boase Award to Gruenwald, CE:Apr 74:80

Grundy, Paul
Optimum Beam Layout for Large Areas, ST8:Aug 71:2085:8304
  Dsc: Andrew B. Templeman, ST3:Mar 72:777: 8752; Jawalker K. Sridhar Rao, Bakul S. Bulsari and Manhar C. Thakkar, ST5:May 72:1198: 8861
  Clo: ST12:Dec 72:2810:9395
  TR:137:1006
Shakedown of Bars in Bending and Tension, EM3: June 69:519:6595
  Dsc: Irving Grossman, SA2:Apr 70:523:7190
  TR:135:71

Grune, Werner N.
Electrode Potential Control Of Ocean Outfalls, with Philip Quinn and Susan DiPrima, CEO-II:70:1187

Gruner, Iosif
Shrinkage Effect of Structural Concrete Walls in Multi-Story Buildings, with Grigore Rotaru and Radu Frunza, TB:73:III-25-827

Grupenhoff, Betty L.
See Robert M. Clark, SA5:Oct 71:563:8403

Grupp, David C.
Fire Safety in High Rise Buildings, BP73:Dec 73:454

Gruver, Arthur B.
Can Continuing Education Teach Experience?, CEE: Feb 74:1-825

Guam, Carl H.
Dsc, WW2:May 71:428:8086, of "Problems of Inland Waterway Lock Dimensions", WW2:May 70:451: 7295

Guarino, Carmen F.
Combined Sewer Considerations by Philadelphia, with Joseph V. Radziul and William L. Greene, SA1:Feb 70:1:7050
  TR:136:825
Combined Sewers and Stormwater Drainage - Today and 2050 AD, with Joseph V. Radziul, CWFE:Mar 71:349
Philadelphia Pilots--Builds Oxygen Activated Sludge, with Michael D. Nelson and Allan B. Edwards, EE4:Aug 74:919:10722

Gudehus, G.
See M. Goldscheider, GT9:Sept 74:1068:10769

Guerra, Gustavo Perez
The Business and Practice of Foundation Engineering in Venezuela, 4PCSM:71:II379
  Dsc: Gustavo Perez Guerra, 4PCSM:72:III244
Dsc, 4PCSM:72:III244, of "The Business and Practice of Foundation Engineering in Venezuela", 4PCSM:71:II379

Guerreiro, M.
See J. Laginha Serafim, ECCD:72:311

Guha, S. K.
Analysis of Accelerograms and Structural Response, with S. P. Agarwal, V. P. Agarwal, P. D. Marwadi and S. C. Marwad , TN: EM2:Apr 71:589:8017

Guha-Biswas, Satyen M.
Design and Construction Features — Greenwood Unit One, EPCE:Aug 74:279

Guha Majumdar, Sauren N.
See James G. MacGregor, ST11:Nov 72:2351:9351

Guild, Josephus Conn
Memoir of, TR:136:1351

Guinan, James W.
See Thomas E. Hoover, TE1:Feb 73:53:9518

Guins, Vsevolod G.
Flow Characteristics of Butterfly and Spherical Valves, HY3:May 68:675:5933
Dsc: J. Paul Tullis, HY1:Jan 69:557:6323
TR:135:907

Gulati, Om P.
Control of Sediment Flow Into Subsurface Drains, with Glenn O. Schwab and Ronald C. Reeve, IR4: Dec 70:437:7751
Dsc: Richard P. Long and Kent A. Healy, IR4: Dec 71:651:8553
Clo: IR3:Sept 72:498:9157
TR:137:907

Gulati, Suresh T.
Rectangular Plates with Elastic Edge Supports, with Walker M. Buehl, TN: EM4:Aug 70:521:7444

Gullidge, Ellsworth J.
Planning for Pleasure Boating on Regional Basis, with Frank J. Urabeck, WW3:Aug 70:583:7453
TR:136:1041

Gulliver, Eugene Allen
Engineer's Notebook: Preliminary Flow Profiles For Highway Engineers, CE:Dec 73:49

Gump, Paul V.
Behavior Setting, Synormorphy, and Environmental Design, with Julius Marek, ABS:71:61

Gunderson, James W.
See James V. Hamel, TN: SM5:May 73:427:9703

Gunderson, Richard H.
Element Stiffness Matrix Generator, with Ayhan Cetiner, ST1:Jan 71:363:7842
TR:137:329
A Stiffness Matrix Generator, with Ayhan Cetiner, EC5:70:595

Gundlach, David L.
See Stanley S. Butler, IR1:Mar 74:17:10393

Gunnerson, Charles G.
Debris Accumulation in Ancient and Modern Cities, EE3:June 73:229:9771
Errata: EE3:June 74:767:10564
TR:139:122
Environmental Design for Istanbul Sewage Disposal, EE1:Feb 74:101:10343
Dsc: Kriton Curi, EE6:Dec 74:1292:10971
Marine Disposal of Solid Wastes, with Robert P. Brown and David D. Smith, CEO-II:70:249
Marine Disposal of Solid Wastes, with Robert P. Brown and David D. Smith, SA6:Dec 70:1387:7769
TR:137:858

Gunwaldsen, Ralph W.
Cooling Water Structures for FitzPatrick Nuclear Plant, with Bruno Brodfeld and George E. Hecker, PO4:Dec 71:767:8572
TR:137:947
Northfield Mountain Pumped Storage Project, with Antonio Ferreira, CE:May 71:53
Dsc: Large Pumped Storage Projects, Carl F. Whitehead, CE:Sept 71:93
TR:137:348

Gupta, Ajaya K.
Analysis and Design of Hyperbolic Cooling Towers, with Adolf Walser, EPCE:Aug 74:307

Gupta, D. F. Sen
See Dinesh Mohan, CE:Feb 70:49

Gupta, Dinesh C.
See Raymond J. Krizek, SM12:Dec 72:1347:9421

Gupta, R. S.
Optimization of Circulating Water System, with Bruce R. Webber, PO1:May 73:235:9756
TR:139:359

Gupta, Raj P.
Dynamic Analysis of Staggered Truss Framing System, with Subhash C. Goel, ST7:July 72:1475: 9038
TR:138:352
See James C. Anderson, ST11:Nov 72:2523:9344

Gupta, Ramesh C.
See Surendra P. Jain, GT9:Sept 74:1031:10823

Gupta, Rishab K.
See Ralph Stone, SA6:Dec 70:1399:7766

Gupta, Sachinder N.
Dsc, SM3:May 70:1072:7249, of "Compaction Grouting Technique and Observations", SM5:Sept 69:1151:6766
Dsc, SM4:July 70:1473:7385, of "Sand Densification by Piles and Vibroflotation", SM6:Nov 69:1303: 6892
Dsc, SM6:Nov 70:2144:7643, of "Relaxation of Piles in Sand and Inorganic Silts", SM2:Mar 70:395:7123
Dsc, PISST:71:224, of "Sand Densification by Piles and Vibroflotation", PISST:71:203
Dsc, SM2:Feb 71:497:7866, of "Review of Collapsing Soils", SM3:May 70:925:7278
Dsc, SM3:Mar 72:302:8751, of "Evaluation of Pore Pressures Beneath and Embankment", SM6:June 71:881:8213
See Jerome C. Neyer, SM6:Nov 70:2138:7643
See Jerome C. Neyer, PISST:71:87

Gupta, Vulli L.
Information Content of Time-Variant Data, HY3:Mar 73:383:9615
Dsc: Marshall E. Moss, HY11:Nov 73:2165: 10109; Mogens Dyhr-Nielsen, HY3:Mar 74:487: 10379
TR:139:234
Streamflow Synthesis - A Case Study, with John W. Fordham, HY6:June 72:1049:8969
TR:138:336
Surface Runoff Hydrograph Equation, with Syed A. Moin, HY10:Oct 74:1353:10880
Dsc, HY1:Jan 72:304:8620, of "Hourly Rainfall Synthesis for a Network", HY9:Sept 71:1349:8375

Gur, Adnan
See Shyam S. Mohanka, SA1:Feb 70:183:7046

Guralnick, Sidney A.
See Charles A. Miller, ST12:Dec 70:2625:7768
See Michel L. Mikhail, EM5:Oct 71:1363:8414

Gurfinkel, German R.
Analysis and Design of Hyperbolic Cooling Towers, with Adolf Walser, PO1:June 72:133:8997
Dsc: Raphael F. Rish, PO1:May 73:259:9690; Frederick L. Moreadith and Garry J. Patterson, PO2:Nov 73:427:10111
TR:139:17
Analysis of Footing Subjected to Biaxial Bendine, ST6:June 70:1049:7329
Dsc: K. S. Rajagopalan, ST10:Oct 70:2252:7570; Ti Huang, ST2:Feb 71:734:7867
Clo: ST12:Dec 71:2882:8557
TR:137:25
Behavior of Polygonal and Circular Ring Beams, with Arthur R. Robinson, ST6:June 73:1241:9800
Errata: ST5:May 74:1149:10506
TR:139:365
Design of Wood Columns for Flexural and Axial Loading, ST11:Nov 70:2389:7701
TR:137:253
Longitudinally Restrained Reinforced Concrete Beams, with Chester P. Siess, ST3:Mar 68:709:5859
Dsc: Amnon R. Jacobson, ST1:Jan 69:127:6325
Clo: ST1:Jan 70:126:6990
TR:135:462
Multistory Prefabricated Columns, CO2:Oct 70:137: 7587
Errata: CO1:Mar 71:168:7939
TR:137:102

School Buildings Feature Polygon Shape, CE:Dec 70: 31
TR:136:1184

Gurley, Paul C., Jr.
See Hugh G. McKay, III, PO1:May 73:1:9706

Gurney, T. R.
See John W. Fisher, TB:73:II-18-757

Gurpinar, Aybars
Design of Columns for Seismic Loads, with James T.P. Yao, ST9:Sept 73:1875:9978
TR:139:447

Gursoy, Ahmet H.
Lateral Wind on Side Spans of Suspension Bridges, ST10:Oct 68:2399:6175
Dsc: Abraham I. Zuckerman, ST8:Aug 69:1775: 6707
Clo: ST4:Apr 70:841:7191
TR:135:744

Gusev, A. M.
See V. N. Anuchin, ISSF:Aug 72:527

Gustafson, William C.
Analysis of Skewed Composite Girder Bridges, with Richard N. Wright, ST4:Apr 68:919:5890
Dsc: Mehrdad Mehrain, ST2:Feb 69:277:6373
TR:135:524

Gute, William L.
First Vehicular Cable-Stayed Bridge in the U.S., CE: Nov 73:50
Dsc: Robert F. Legget, CE:May 74:22
Errata: CE:Apr 74:22
TR:139:488

Guter, Kurt J.
Dsc, with Wayne F. Echelberger, Jr. and Mark W. Tenney, SA1:Feb 71:109:7865, of "Evaluation of Anaerobic Denitrification Processes", SA2:Apr 70: 267:7211

Gutierrez, Angelo L.
Proposed New ASCE Policy on Engineering Education - Role of Technology Graduates (Discussion), CEE:Feb 74:2-296

Gutierrez, Hector Lopez
Study of Topolobampo's Bay, Mexico, Entrance, with Daniel Cervantes Castro, 12CEC:71:1151

Gutman, Robert
Use of Sociology in Design Practice, ABS:71:109

Gutti, Subba Rao
Behavior of Small Gas Bubbles in Accelerated Liquid, HY4:Aug 68:1073:6047
Clo: HY6:Nov 69:2150:6866
TR:135:711
Movement of Small Gas Bubbles in Smoothly Decelerating Liquid, HY7:July 71:117:8251
Dsc: Alex J. Sutherland and David J. Painter, HY4:Apr 72:724:8799
Clo: HY12:Dec 72:2213:9391
TR:137:1014

Gutzwiller, Martin J.
See John E. Goldberg, EM5:Oct 68:1127:6181
See F. Wayne Klaiber, ST6:June 73:1287:9818
See Wayne C. Kroenke, ST7:July 73:1371:9835
See Gerald A. Leonards, CEE:Feb 74:1-39

Guven, Oktay
See Cesar Farell, HY7:July 73:1167:9823

Guy, Harold P.
Flood Flow Downstream from Slide, TN: HY4:Apr 71:643:8018
Some Sediment Aspects of Tropical Storm Agnes, with Terry L. Clayton, TN: HY9:Sept 73:1653: 10024
Urban Sedimentation in Perspective, with D. Earl Jones, Jr., HY12:Dec 72:2099:9420
TR:138:574
Dsc, HY5:May 70:1212:7248, of "Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: A. Fluvial Sediment, Task Committee on Preparation of the Sedimentation Manual", HY5:Sept 69:1477:6756

Guy, Louis L., Jr.
See Robert A. Canham, CE:Feb 72:40

Guymon, Gary L.
Finite Element Solution for General Fluid Motion, HY6:June 73:913:9789
Dsc: Ihor D. Kotchergenko and Ana M.A. de Amorim, HY3:Mar 74:497:10379
Errata: HY11:Nov 73:2166:10109
TR:139:297
Regional Sediment Yield Analysis of Alaska Streams, HY1:Jan 74:41:10255
Dsc: Stafford C. Happ, HY12:Dec 74:1845:10974
See Robert A. Longenbaugh, IR4:Dec 69:639:6930

Guyton, Joseph W.
Planning for Campus Traffic and Parking, with George L. Reed, TE1:Feb 71:63:7880
Dsc: V. Setty Pendakur and K. Sukumaran, TE4: Nov 71:717:8486; Kevin Wall, TE1:Feb 72:146: 8685
Clo: TE4:Nov 72:9309
TR:137:756

Guzaltan, Fuat
See Burak Erman, TN: GT12:Dec 74:1321:10981

Gvozdev, Alexei A.
Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, with E. A. Chistiakov, TB:73:III-23-537

Gwinn, Wendell R.
Calibration of Walnut Gulch Supercritical Flumes, HY8:Aug 70:1681:7479
Dsc: Herman J. Koloseus, HY1:Jan 71:214:7783; James J. Sharp, HY4:Apr 71:627:8012; Roger E. Smith and Leonard J. Lane, HY5:May 71:749: 8081
Clo: HY1:Jan 72:271:8620
TR:137:128

Gwynn, J. David
See G. V. Eckenfelder, CE:May 73:45

Gyuk, Imre
Transient Seepage Flow Toward Two Parallel Drains, with Gabor M. Karadi, EM1:Feb 72:211:8737
TR:138:138
See Raymond J. Krizek, IR2:June 73:169:9807

Ha, Kinh H.
See Paul P. Fazio, ST6:June 74:1243:10593

Haack, Harvey O.
Games for Simulating Urban Development Process, with George L. Peterson, UP2:Dec 71:149:8568
Dsc: V. Setty Pendakur and Henry Ropertz, UP1: Mar 73:121:9584

Haag, Fred G.
Transport Equation Stability and Estuary Modeling, with Keith W. Bedford, HY12:Dec 71:2051:8610
TR:137:964

Haagsma, Sjoerd C.
Offshore Pipeline Burial, TN: TE4:Nov 73:980:10117
Offshore Pipeline Burial: Some Remarks on the State-of-the-Art, PITO:74:73

Haaijer, Geerhard
Dsc, ST2:Feb 72:516:8684, of "Collapse Load Analysis Using Linear Programming", ST5:May 71: 1561:8127

Haan, Charles T.
Adequacy of Hydrologic Records for Parameter Estimation, HY8:Aug 72:1387:9128
TR:138:430

Haberkorn, Susan B.
The Elderly Pedestrian: A Special Problem, BP73: Dec 73:414

Habib, Pierre A.
Scale Effect for Shallow Footings on Dense Sand, TN: GT1:Jan 74:95:10254

Habibagahi, Karim
Dsc, SM11:Nov 73:1027:10112, of "Coefficient of Secondary Compression", SM1:Jan 73:123:9515

Hacking, Brent B.
See Gaylord V. Skogerboe, IR3:Sept 70:309:7542

Haddadin, Munther J.
Stirrup Effectiveness in RC Beams with Axial Force, with Alan H. Mattock, ST9:Sept 71:2277:8394
TR:137:783
Dsc, ST4:Apr 70:864:7191, of "Photoelastic Study of Beams on Elastic Foundations", ST8:Aug 69:1713: 6739

Hadjian, Asadour H.
Design Criteria for Turbine-Generator Pedestals, PO1:Jan 70:1:6991
Dsc: Paul Rogers, PO1:Jan 71:236:7784
Clo: PO4:Dec 71:873:8554
TR:137:22
Earthquake Forces on Equipment in Nuclear Power Plants, PO3:July 71:649:8240
Dsc: Melvin W. Jackson, PO1:June 72:171:8927
Clo: PO1:May 73:9690
TR:137:989
Scaling Of Earthquake Accelerograms-A Simplified Approach, TN: ST2:Feb 72:547:8688
Some Problems with the Calculation of Seismic Forces on Equipment, SDNPF:Dec 73:1
Dsc, ST1:Jan 70:159:6990, of "Earthquake Design Criteria for Subways", ST6:June 69:1213:6616
Dsc, PO2:Nov 73:431:10111, of "Interaction of Soil and Power Plants in Earthquakes", PO2:Oct 72: 273:9242

Hadjitheodorou, Christos
See James A. Liggett, HY2:Mar 69:609:6454

Hafferty, William T.
Urban Engineering in the University, PP1:Sept 70:15: 7547

Haga, P. Blair
PWR Containment Structures Design Experience, with John D. Stevenson, PO1:Jan 70:145:7037
TR:136:437

Hagan, John E., III
See Thomas P. Gallagher, CEO-II:70:229

Hagan, Robert M.
Ecological Impacts of Water Projects in California, with Edwin B. Roberts, IR1:Mar 72:25:8780
Dsc: M. Riazul Hasan, IR4:Dec 72:610:9392
Clo: IR2:June 73:185:9761
TR:139:28
Water Deficits -Irrigation Design and Programming, with J. Ian Stewart, IR2:June 72:215:8955
Dsc: John L. Merriam, IR2:June 73:188:9761
Clo: IR1:Mar 74:89:10380
TR:139:58
See J. Ian Stewart, IR1:Mar 69:91:6443
See J. Ian Stewart, IR4:Dec 73:421:10229
See J. Ian Stewart, IR2:June 74:179:10626

Hagen, Vernon K.
Safety of Dams -- Hydrologic and Hydraulic Aspects, IMROD:Sept 73:337

Hagerty, D. Joseph
Consolidation Effects Around Driven Piles, with John E. Garlanger, PES:72:I-1207
Dsc: M. Appendino, PES:73:III-241
Heave and Lateral Movements Due to Pile Driving, with Ralph B. Peck, SM11:Nov 71:1513:8497
Dsc: Ibrahim H. Sulaiman, SM4:Apr 72:441:8801; E. Montford Fucik, SM9:Sept 72:972:9158; Gary Brierley and David Thompson, SM11:Nov 72:1273:9306
Clo: SM4:Apr 73:344:9639
TR:138:73
Rock Property Changes Under Air Pollutant Action, with C. Robert Ullrich, RM14:73:127
Dsc, with Joseph L. Pavoni and John E. Heer, Jr., SA3:June 71:384:8157, of "Sample Weights in Solid Waste Composition Studies", SA4:Aug 70:945:7469
Dsc, SM7:July 71:1043:8224, of "Performance of Four Foundations on End Bearing Piles", SM1:Jan 71:77:7807
See Joseph L. Pavoni, SA2:Apr 71:243:8013

Hagg, J. N.
See M. P. Daruwalla, CE:Apr 71:38

Haggard, Joel E.
Dsc, EI4:Oct 74:363:10835, of "Impact Statements -- Present and Potential", PP4:Oct 73:449:10066

Haggman, Phil C.
See Gunnar N. Thorsky, HY4:Apr 70:1069:7189

Hagino, Seiya
See Juichi Kato, WW3:Aug 69:337:6733

Hagist, Warren M.
Dsc, with Lewis L. Huff, HY1:Jan 70:299:6988, of " Dispersion of Silt Particles in Open Channel Flow", HY3:May 69:1009:6579

Hagood, Mel A.
Irrigation Scheduling from Evaporation Reports, OIDS:72:533
Dsc, IR4:Dec 69:610:6930, of "Role of Irrigation in the West's Expanding Economy", IR4:Dec 68:401: 6281

Hahn, Hong T.
See Vernon H. Neubert, EM1:Feb 70:69:7099

Hahn, Oscar M.
Stability Problems of Wood Truss Bridge, ST2:Feb 70:353:7095
Dsc: George H. Kyanka, ST7:July 70:1624:7386; Jacob Feld, ST8:Aug 70:1852:7442; E. George Stern, ST9:Sept 70:1980:7567; James H. Carr, Jr., ST10:Oct 70:2245:7570; William C. Almeyer, ST11:Nov 70:2545:7644; William G. Byers, ST11:Nov 70:2545:7644
Clo: ST5:May 71:1636:8084
TR:136:804

Hahs, Charles Arthur
Design Parameters for Water Jet Tunneling Machines, RM14:73:555

Hails, Robert L.
See Conrad P. Heins, Jr., ST11:Nov 69:2353:6876

Haimes, Yacov Y.
See James W. Foley, EE3:June 73:253:9795

Haimson, Bezalel C.
Earthquake Related Stresses at Rangely, Colorado, RM14:73:689
Mechanical Behavior of Rock Under Cyclic Fatigue, with Chin Man Kim, RM13:72:845
Tensile and Compressive Cyclic Stresses in Rock -- Abstract, with Chin Man Kim and T. M. Tharp, RM14:73:748

Hain, Stephen J.
Rational Analysis of Raft Foundation, with Ian K. Lee, GT7:July 74:843:10683

Haisch, William Thomas
See Zaher Shoukry, ST6:June 70:1105:7349

Haise, Howard R.
Automation of Surface Irrigation Systems, with E. Gordon Kruse, IR4:Dec 69:503:6969
 TR:136:248
Self-Closing Irrigation Pipe Valve, with Meredith L. Payne, TN: IR3:Aug 72:517:9160
See E. Gordon Kruse, IR73:Aug 73:627

Haisler, Walter E.
See James A. Stricklin, ST9:Sept 71:2299:8392

Haith, Douglas A.
Optimal Control of Nitrogen Losses from Land Disposal Areas, EE6:Dec 73:923:10200
 Dsc: Richard I. Dick and John D. Ditmars, EE6: Dec 74:1286:10971
 TR:139:471

Hajj, Hatim M.
American Engineering Unions, PP2:Apr 73:213:9657
 TR:139:228

Hakalehto, Kaarlo O.
Energy Required to Break Rock by Percussive Drilling, RM14:73:613

Hakanson, Richard H.
Dsc, CE:Aug 74:22, on Engineering Students Learn Social Awareness at UMR, CE:May 74:54

Hakman, Peter A.
Dsc, with William P. Kinneman, WW2:May 70:557: 7252, of "All-Weather Tanker Terminal for Cook Inlet, Alaska", WW2:May 69:131:6549
See William P. Kinneman, WW2:May 72:279:8863

Halappa Gowda, Tagadur P.
Dsc, EE1:Feb 73:101:9521, of "Herbicidal Control of Aquatic Plants", SA2:Apr 72:397:8851
Dsc, HY1:Jan 74:239:10251, of "Longitudinal Dispersion in Sinuous Channels", HY1:Jan 73:195: 9479
See Richard G. Warnock, HY12:Dec 72:2231:9391

Haldane, David
Dsc, ST6:June 74:1316:10569, of "The Shear Strength of Reinforced Concrete Members", ST6: June 73:1091:9791

Hale, John Simpson
Calculated Sand Fills and Groin Systems, CE13:72: II-1385
Compilation of Ocean and Lake Wave Statistics, 12CEC:71:217
Wave Statistics for Surfzone Structures, WAVES:Sept 74:453

Hale, Max
See David Brenchley, CE:Mar 73:83

Hales, Lyndell Z.
Tidal Inlet Current -- Ocean Wave Interaction, with John B. Herbich, CE13:72:I-669

Haley, Steven C.
See Kenneth L. Lee, SM6:Nov 68:1303:6239
See Kenneth L. Lee, PISST:71:345

Haliburton, T. Allan
Numerical Analysis of Flexible Retaining Structures, SM6:Nov 68:1233:6221
 Dsc: Peter W. Rowe, SM3:May 69:931:6525; Peter Kocsis, SM6:Nov 69:1549:6894; James B. Rauhut, SM6:Nov 69:1553:6894
 Errata: SM4:July 69:1127:6643
 Clo: SM4:July 70:1461:7385
 TR:135:894
Subgrade Moisture Under Oklahoma Highways, with Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
 TR:138:114
See B. Dan Marks, SM4:Apr 72:327:8827

Hall, A. S.
Dsc, ST2:Feb 69:305:6373, of "Curved Beam Stiffness Coefficients", ST5:May 68:1165:5947

Hall, Darryl W.
See Ralph R. Boericke, HY1:Jan 74:85:10282

Hall, Dennis C.
See James E. Biesecker, HYB:Aug 73:417

Hall, Earl B.
Dsc, SM1:Jan 69:346:6324, of "Stress-Controlled Apparatus for Triaxial Testing", SM6:Nov 67:61: 5555

Hall, Edward M.
Criteria for Locating Major Streets and Urban Freeways, HY1:June 68:21:5975
 TR:135:815

Hall, Harold C.
See Michael L. Larson, PES:72:I-1341

Hall, James Michael
See Kenneth Edward Steele, WAVES:Sept 74:417

Hall, Jay V., Jr.
Stability Tests of Interlocking Block Revetment, WW3:Aug 68:331:6079
 Dsc: A. Traetteberg, WW2:May 69:230:6528; Franciscus Gerritsen and Per Moller Bruun, WW2:May 69:231:6528; Earl R. Koller, WW1: Feb 70:151:7049
 TR:135:404

Hall, Jerome W.
See William A. Wild, TE4:Nov 74:873:10927

Hall, John R., Jr.
Session V: Dynamic Loadings (Earthquakes, Machinery), PISST:71:135
See Stuart D. Werner, PO1:July 74:127:10636

Hall, Lawrence C.
See Donald R. F. Harleman, SA5:Oct 68:897:6160

Hall, Michael J.
Dsc, HY7:July 73:1173:9823, of "Conceptual Hydrologic Models for Urbanizing Basins", HY7: July 72:1205:9024

Hall, R. Ian
See Desmond L. Webb, SM6:Nov 69:1365:6882
See Desmond L. Webb, PISST:71:393

Hall, Radford S., II
See Orville T. Magoon, CEO-II:70:1089

Hall, Stephen
Air Traffic Simulation, One and Two-Runway Airports, TE1:Feb 74:221:10342

Hall, Warren A.
Agriculture and the City, IR73:Aug 73:1
Optimal Allocation of Stochastic Water Supply, with David T. Howell, IR4:Dec 70:395:7718
 Dsc: Raphael G. Kazmann, IR3:Sept 71:535:8346
 Clo: IR2:June 72:325:8926
 TR:137:895
Optimal Timing of Irrigation, with William S. Butcher, IR2:June 68:267:5993
 Dsc: Madhu S. Misra, IR1:Mar 69:253:6428; Gert Aron, IR1:Mar 69:254:6428
 Clo: IR4:Dec 69:599:6930
 TR:135:341
Systems Analysis in Irrigation and Drainage, HY4: Apr 73:567:9659
 Dsc: Phillip Z. Kirpich, HY3:Mar 74:490:10379
 TR:139:249
See Mohammad T. Chaudhry, HY5:May 74:667: 10550

Hall, William J.
See John D. Haltiwanger, CEE:Feb 74:1-149

Halldorsson, Ottar P.
Stability Analysis of Frameworks by Matrix Methods, with Chu-Kia Wang, ST7:July 68:1745:6032
Dsc: Benjamin Koo, ST3:Mar 69:533:6430; Alfred Zweig, ST3:Mar 69:535:6430; Franklin Y. Cheng, ST3:Mar 69:539:6430; Semih S. Tezcan, Bulent Ovunc and Bijay C. Mahapatra, ST3:Mar 69:543:6430
Clo: ST12:Dec 69:2987:6932
TR:135:689

Hallermeier, R. J.
Development of a Shallow-Water Wave Direction Gage, with William R. James, WAVES:Sept 74:696
See Cyril J. Galvin, Jr., CE13:72:III-1955

Halliwell, A. Roy
Density Currents and Turbulent Diffusion in Locks, with Martin O'Dell, 12CEC:71:1959
Tidal Velocities Across A Partly-Completed Barrage, HY5:Oct 67:85:5427
Dsc: Armando Balloffet, HY3:May 68:804:5920; J. J. Dronkers, HY4:July 68:1134:6015
TR:135:340
Dsc, with Sabah A. Al-Nassri, HY12:Dec 70:2615:7711, of "Efficient Code for Steady-State Flows in Networks", HY1:Jan 70:43:7002

Halmos, E. E., Jr.
The Nixon Administration and the City, CE:Sept 69:98
TR:135:860

Halpenny, Leonard C.
Utilization of Sewage Effluent for Irrigation, IR73:Aug 73:575

Halpern, Richard C.
Control of the Construction Process, State-of-Art Report 2, TB:73:Ia-4-689

Halpin, Daniel W.
Structure of Construction Industry in Romania, with Mihai Nemteanu and Ronald W. Woodhead, CO2:June 74:141:10600

Halsey, James F.
Dsc, with Reid S. Cummins, WW1:Feb 72:135:8686, of "Wind and Surge Damage Due to Hurricane Camille", WW2:May 71:355:8144

Halsey, Nixon
GFRP Rod and Rope for Structural Guy Applications, EM4:Aug 74:673:10715
See Richard A. Mitchell, EM4:Aug 74:687:10716

Haltenhoff, Charles E.
Mini Automobile-shredding Plant for Western Michigan, CE:Apr 71:55
TR:137:292

Haltiwanger, John D.
Civil Engineering Graduate Education in Evolution, with William J. Hall and Nathan M. Newmark, CEE:Feb 74:1-149

Halton, Daniel B.
Dsc, CE:May 72:40, on Engineering and Today's Social Problems, CE:Mar 72:64

Halverson, Howard G.
See James L. Smith, IAWM:72:5

Ham, Robert K.
Agglomerate Size Changes in Coagulation, with Russell F. Christman, SA3:June 69:481:6605
Dsc: Thomas R. Camp, SA6:Dec 69:6931; Richard I. Dick, SA2:Apr 70:1268:7569
TR:136:127

Hamada, Sumio
Buckling of Composite Beams in Negative Bending, with Jack Longworth, ST11:Nov 74:2205:10917

Hamblet, Frederick E.
See William F. Hill, Jr., NSCD:71:223
See William F. Hill, Jr., SA5:Oct 71:601:8423

Hamel, James V.
Failure of Colluvial Slope, with Norman K. Flint, SM2:Feb 72:167:8731
Errata: SM3:Mar 73:296:9582
TR:138:189
Kimbley Pit Slope Failure, 4PCSM:71:II117
Shear Strength of Homestake Slimes Tailings, with James W. Gunderson, TN: SM5:May 73:427:9703
The Slide at Brilliant Cut, RM13:72:487
Dsc, SM5:Sept 70:1833:7499, of "Coefficient of Friction of Natural Rock Surfaces", SM2:Mar 70:385:7121
Dsc, SM12:Dec 72:1428:9394, of "Subsurface Investigation for Design and Construction of Buildings: Part II", SM6:June 72:557:8944

Hamil, B.
See S. Sriruang, RM14:73:750

Hamill, Frank A.
See Irving Joseph, HY7:July 72:1117:9014

Hamilton, Donald H.
See Herbert W. Busching, EM2:Apr 74:359:10493

Hamilton, E. L.
Optimizing of Canal Flow in All Seasons, OIDS:72:521

Hamilton, Wallis S.
Fluid Force Analysis and Accelerating Sphere Tests, with James E. Lindell, HY6:June 71:805:8195
TR:137:363
Fluid Force on Accelerating Bodies, CE13:72:III-1767

Hamilton, William F.
Alternative Paths to Guideway Transportation, UTI:71:385

Hamilton, William H.
Dsc, Underground Powerhouse, CE:Feb 74:107
Dsc, Water Rights, CE:Mar 74:120

Hamlin, C. F.
Dsc, CE:Sept 70:72, on Temporary Bypass Bridge Designed for Salvage, CE:Mar 70:51

Hamlin, William G.
Hamlin Leaves ASCE Staff For New Job, CE:July 73:95

Hammack, Joseph L., Jr.
Tsunami Generation and Propagation, with Fredric Raichlen, CE13:72:III-2577
Dsc, WW2:May 71:417:8086, of "Water Waves Generated by Landslides in Reservoirs", WW2:May 70:307:7279

Hammad, Hammad Y.
Future of Ground Water in African Sahara Desert, IR4:Dec 69:563:6986
Dsc: Ahmed El Mimr, IR3:Sept 70:374:7498; Robert L. McFall, IR3:Sept 70:375:7498
Clo: IR1:Mar 71:215:7941
TR:136:392
River Bed Degradation After Closure of Dams, HY4:Apr 72:591:8814
Dsc: Donald C. Bondurant, HY11:Nov 72:2051:9305; Kikkeri L.V. Ramu, HY3:Mar 73:541:9580
TR:138:220

Hammer, Mark J.
Dialysis Separation of Sewage Sludge Digestion, with Jack A. Borchardt, SA5:Oct 69:907:6845
TR:135:1090
See Wayne E. Wruble, TN: EE5:Oct 74:1199:10855

Hammerstrom, Carl
The Environment and a Two-Billion Dollar Property, SU1:July 72:51:9065
Errata: SU1:Sept 73:140:9965
TR:139:204

Hammitt, George M., II
See Donald N. Brown, TE4:Nov 69:617:6874

Hammond, A. A.
See J. W.S. de Graft-Johnson, SM11:Nov 72:1245:9375

Hammond, David G.
BART Demonstration Program, TE4:Nov 71:627:8508
TR:137:1021
Overall Planning of the Bay Area Rapid Transit DistrictProject, TE2:May 69:347:6548
TR:135:77

Hammond, G. A.
Dsc, CE:June 73:22, on Our Priceless Heritage, Our Youth, CE:Mar 73:76

Hammond, John Jacob
Memoir of, TR:137:1061

Hamoudi, Ali A.
Shear Strength of Post-Tensioned Daps in Prestressed Concrete Beams, with Michael K.S. Phang, ST12:Dec 74:2403:11011

Hampton, Delon
Wave Propagation in Confined Clay, with Peter J. Huck and Ernest T. Selig, SM4:July 70:1391:7434
Dsc: Andrew Eberhardt, PO1:Jan 71:251:7784
Errata: SM5:May 71:807:8083
TR:136:1020
Dsc, CE:Jan 71:45, on Black People Call for ASCE Social Action, CE:Dec 69:73

Hamrick, Robert L.
See William V. Storch, SEA:70:45
See N. N. Khanal, OIDS:72:503

Hamzawi, Hashim H.
Dsc, SM3:May 68:795:5922, of "Applications of Limit Plasticity in Soil Mechanics", SM5:Sept 67:101:5424

Hancher, Donn E.
Mathematical Model for Aggregate Plant Production, with John A. Havers, TN: CO1:Mar 71:171:7972
See John A. Havers, CEE:Feb 74:1-662
See John M. Hayes, CEE:Feb 74:2-291

Hancock, Gregory J.
See Nicholas S. Trahair, EM6:Dec 71:1753:8551

Hancock, John C.
Dsc, SA2:Apr 70:636:7190, of "Septic Tank Systems", SA4:Aug 69:715:6735

Hancock, Lawrence F.
See Dan M. Fults, HY9:Sept 72:1497:9176
See Dan M. Fults, HY10:Oct 74:1419:10886

Hand, Frank R.
Nonlinear Layered Analysis of RC Plates and Shells, with David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
TR:139:408

Handa, B. K.
See R. H. Siddiqi, SA1:Feb 71:91:7912

Handa, Virginia K.
See Richard W. Cockfield, UP2:Dec 71:191:8582

Handerson, Clark D.
See Robert A. Burco, TE2:May 71:205:8126

Hands, Edward B.
See James H. Saylor, 12CEC:71:839

Handy, Richard L.
Dsc, CE:June 70:62, on Los Angeles Hillside Developments Put To Test by Recent Rains, CE:Nov 69:39
Dsc, GT1:Jan 74:81:10250, of "Use of Cycloidal Arcs for Estimating Ditch Safety", SM2:Feb 73:165:9566
See R. A. Lohnes, TN: SM1:Jan 72:143:8618

Haney, Dan G.
Community Values in Transport Network Evaluation, with George E. Klein, TE4:Nov 72:823:9319
TR:138:449

Hanke, Byron R.
Choice-HUD's Blueprint for a Better Tomorrow, CE:Sept 69:49
TR:135:848
Land-use Intensity, the LUI Scale, and Zoning, UP4:Dec 67:19:5675
Errata: UP1:Apr 69:98:6487
TR:135:394

Hanko, Zoltan G.
Vortex-Induced Oscillations at Low-Head Weirs, HY2:Nov 67:255:5597
Dsc: Dirk Clays and Gerard Tison, Jr., HY4:July 68:1160:6015; Emil Mosonyi and Bernd Schoppmann, HY6:Nov 68:1564:6200; M. Ramette, HY2:Mar 69:719:6433
Clo: HY6:Nov 69:2143:6866
TR:135:396
Dsc, HY2:Mar 69:711:6433, of "Determination of Efficient Open Channel Sections", HY6:Nov 67:103:5567

Hann, Roy W., Jr.
Analysis Techniques for Houston Ship Channel, WW2:May 70:171:7258
TR:136:1193

Hanna, Albert W.G.
Transmission Towers Under Torsional Loads, with Richard G. Redwood, PO1:May 73:105:9701
Dsc: Mahadevan Hariharan and C. P. Vendhan, PO1:July 74:130:10636
Errata: PO2:Nov 73:437:10111
TR:139:148

Hanna, Thomas H.
Anchor Behavior in Sand, with Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187:9338
Dsc: George G. Meyerhof, SM5:May 73:414:9692
TR:138:521
Studies on Anchored Flexible Walls in Sand, with Ibrahim I. Kurdi, GT10:Oct 74:1107:10854
See Robert W. Carr, TN: SM5:May 71:833:8087

Hanninen, C. C.
Thermechanized Mining System at White Pine, with J. W. Sipola, RM14:73:623

Hannon, Bruce M.
Job Impact of Alternatives to Corps of Engineers Projects, with Roger H. Bezdek, PP4:Oct 73:521:10080
Dsc: Gerald R. Dyson, EI4:Oct 74:366:10835
TR:139:472

Hannum, John R.
See Thomas E. Bailey, SA5:Oct 67:27:5510

Hannus, Matti
See Eero Paloheimo, ST7:July 74:1367:10663

Hanrahan, E. T.
Dsc, with P. X. Goodwin, SM1:Jan 70:321:689, of "Time Dependent Deformation of Normally Consolidated Clays and Peats", SM1:Jan 69:1:6337

Hansell, William C.
Load Factor (Limit States) Design, Summary Report, with Ivan M. Viest, TB:73:II-19-899
See George C. Driscoll, Jr., ST1:Jan 70:17:6995

Hansen, Arthur G.
The Continuing Challenge of Engineering Education, PP3:July 72:351:9037
Dsc: John Cowan, PP1:Jan 73:131:9460
TR:138:395

Hansen, Bent
Dsc, SM2:Mar 69:676:6429, of "Settlement of Strip Load On Elastic-Plastic Soil", SM2:Mar 68:431:5850
Dsc, with N. H. Christensen, SM6:Nov 69:1568:6894, of "Theoretical Bearing Capacity of Very Shallow Footings", SM6:Nov 68:1347:6258

Hansen, Edward A.
Dsc, HY1:Jan 74:255:10251, of "Effect of Tall Vegetation on Flow and Sediment", HY5:May 73:793:9748

Hansen, Eggert
Lagrangian Characteristics of Surface Turbulence, HY7:July 72:1255:9008
TR:138:346
Dsc, HY1:Jan 69:526:6323, of "Free Surface Shear Flow Over a Wavy Bed", HY2:Mar 68:431:5856

Hansen, Harold W.
A Statement of National Highway Transportation Policy, by the Committee on Transportation Policy of the Tranportation Engineering Coordinating Committee, TE3:Aug 69:399:6717
Dsc: Amos Roos, TE2:May 70:245:7251; Amos Roos and Labh S. Sachdev, TE2:May 70:247:7251
TR:136:659

Hansen, Jorn S.
Static and Dynamic Stability of an Imperfect Beam, with John Roorda, EM2:Apr 73:271:9647
TR:139:265

Hansen, Kenneth D.
Summary of Session X - Shotcrete Case Histories and Specialties, SUSS:July 73:436

Hansen, L. Pilegaard
See Axel Efsen, TB:73:III-21-265

Hansen, Ray S.
Dsc, CE:Nov 70:64, on Changes Necessary in ASCE, CE:July 70:83

Hansen, Robert J.
Human Response to Wind-Induced Motion of Buildings, with John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868
Errata: ST9:Sept 74:1956:10772
TR:139:425
See John W. Reed, TB:73:II-17-687
See Kanu S. Patel, ST4:Apr 73:621:9643
See Jose M. Roesset, ST4:Apr 73:637:9644

Hansen, Robert L.
See Jack C. Schuster, PO1:June 72:1:8959

Hanshaw, Bruce B.
See William Back, HY11:Nov 70:2325:7702

Hanson, John M.
Fatigue Tests of Prestressed Concrete I-Beams, with Cornie L. Hulsbos and David A. VanHorn, ST11:Nov 70:2443:7705
Dsc: Ganpat S. Pandit, ST8:Aug 71:2155:8271; Herman Tachau, ST9:Sept 71:2429:8348
Clo: ST4:Apr 72:932:8802
TR:137:471

Hanson, Norman W.
Seismic Resistance of Concrete Frames with Grade 60 Reinforcement, ST6:June 71:1685:8180
Dsc: Leslie M. Megget, ST1:Jan 72:383:8623
Clo: ST8:Aug 72:1873:9079
TR:137:643
Dsc, ST1:Jan 73:225:9462, of "Beam-Column Subassemblages Under Repeated Loading", ST5:May 72:1137:8915

Hanson, Raymond A.
Vibration And Placement Of Concrete, RCCD:70:313

Hanson, Robert D.
Aseismic Design of Staggered Truss Buildings, with Glen V. Berg, ST1:Jan 74:175:10289
Errata: ST12:Dec 74:2526:10977
See Chang-Kuei Sun, EM1:Feb 73:183:9565
See Amin M. Almuti, ST6:June 73:1273:9817
See Subhash C. Goel, ST1:Jan 74:79:10288

Hanson, Ronald L.
Changing the Consumptive Use on the Gila River Flood Plain, Southeastern Arizona, with Frank P. Kipple and Richard C. Culler, IRS:Sept 72:309

Happ, Stafford C.
Dsc, HY4:Apr 71:588:8012, of "Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY5:May 70:1157:7269
Dsc, HY4:Apr 71:597:8012, of "Sedimentation Engineering, Chapter IV: Sediment Sources and Sediment Yields, Task Committee on Preparation of Manual on Sedimentation", HY6:June 70:1283:7337
Dsc, HY6:June 71:871:8155, of "Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY5:May 70:1157:7269
Dsc, HY10:Oct 73:1890:10037, of "Predicting Sediment Yield in Western United States", HY12:Dec 72:2073:9432
Dsc, HY1:Jan 74:233:10251, of "Sediment Yield Computed With Universal Equation", HY12:Dec 72:2087:9426
Dsc, HY12:Dec 74:1845:10974, of "Regional Sediment Yield Analysis of Alaska Streams", HY1:Jan 74:41:10255

Haque, M. Ikramul
See Albert G. Mercer, HY3:Mar 73:441:9618

Harbaugh, Terence E.
See Danny L. Fread, HY1:Jan 73:139:9466

Harbeck, G. Earl, Jr.
Present Day Evaporation Measurement Techniques, with J. Stuart Meyers, HY7:July 70:1381:7388

Harber, W. G.
See R. W. Bock, EFFD:Mar 74:87

Harbert, Richard R.
Engineering For People, PP3:July 72:387:9058
TR:138:441
Integration of Technology and Ecology, CE:Mar 70:76

Harbo, Samuel J., Jr.
- See Frederick C. Dean, EE3:June 73:385:9758

Harboe, Ricardo C.
- Optimal Policy for Reservoir Operation, with Fereidoun Mobasheri and William Wen-Gong Yeh, HY11:Nov 70:2297:7673
  - Dsc: Robert L. McFall, HY4:Apr 71:639:8012
  - TR:137:512

Hardie, Michael G.
- See Ju-Chang Huang, SA4:Aug 71:467:8318

Hardin, Bobby O.
- Shear Modulus and Damping in Soils: Measurement and Parameter Effects, with Vincent P. Drnevich, SM6:June 72:603:8977
  - TR:138:328
- Shear Modulus and Damping in Soils: Design Equations and Curves, with Vincent P. Drnevich, SM7:July 72:667:9006
  - TR:138:354
- Vibration Modulus of Normally Consolidated Clay, with William L. Black, SM2:Mar 68:353:5833
  - Dsc: Robert V. Whitman, Richard J. Holt and Vincent J. Murphy, SM2:Mar 69:656:6429; Ricardo Dobry and Mauricio Poblete, SM2:Mar 69:659:6429; Gerald R. Thiers, SM2:Mar 69:662:6429
  - Clo: SM6:Nov 69:1531:6894
  - TR:135:739

Hardin, Jay C.
- Stochastic Model of Turbulent Channel Flow, with Arnold L. Sweet, EM2:Apr 71:375:8056
  - TR:137:184

Harding, Samuel Thomas
- Multiple Mine Openings Subjected to Seismic Loading, RM14:73:739

Harding, V. J.G.
- Dsc, SA4:Aug 69:783:6706, of "Filtration Through a Trimedia Filter", SA3:June 68:521:6014

Hardison, Clayton H.
- Bias in Computed Flood Risk, with Marshall E. Jennings, HY3:Mar 72:415:8766
  - Dsc: Bernard W. Gould, HY1:Jan 73:270:9459
  - Clo: HY7:July 73:1157:9823
  - TR:139:32
- Potential United States Water-Supply Development, IR3:Sept 72:479:9214
  - Dsc: Vit Klemes, IR3:Sept 73:406:9962
  - Clo: IR2:June 74:205:10568
  - TR:139:161

Hardwick, J. David
- Flow-Induced Vibration of Vertical-Lift Gate, HY5:May 74:631:10546

Hardy, H. Reginald, Jr.
- New Horizons in Rock Machanics, with Robert Stefanko, RM14:73, 785pp.
  - TR:139:87
- See Yoginder P. Chugh, RM14:73:339

Hardy, M. P.
- Hybrid Computer Analysis of Seam Extraction -- Abstract, with S. L. Crouch and Charles Fairhurst, RM14:73:749

Hare, Van Court Monroe, II
- Memoir of, TR:137:1060

Hargett, Charles M.
- See Chandrakant S. Desai, GT9:Sept 74:1009:10789

Hargreaves, George H.
- Consumptive Use Derived From Evaporation Pan Data, IR1:Mar 68:97:5863
  - Dsc: Mamdouh M. A. Shahin, IR1:Mar 69:242:6428; William Wen-Gong Yeh and Harry F. Blaney, IR1:Mar 69:246:6428
  - Clo: IR3:Sept 69:440:6753
  - TR:135:526
- The Evaluation of Water Evaluation, IRS:Sept 72:273

Hargrove, Stanley H.
- See Earl O. Heady, HY10:Oct 73:1795:10074

Hari, V. Mura
- Dsc, HY12:Dec 70:2618:7711, of "Graphical Solution to Hydraulic Jump", HY1:Jan 70:103:7014
- Dsc, HY12:Dec 70:2665:7711, of "Resistance to Flow over Two-Dimensional Strip Roughness", HY3:Mar 70:815:7181
- Dsc, HY3:Mar 73:550:9580, of "Effects of Inflow Condition on Hydraulic Jump", HY8:Aug 72:1367:9088

Harich, Henry W.
- Reducing Ice Formation at Navigation Dams, WW3:Aug 72:343:9114
  - TR:138:387

Harig, Richard F.
- Structural and Foundation Computer Based Designs, with Daniel J. McDermott, EC5:70:515
- Structural and Foundation Computer-Based Design, with Daniel J. McDermott, ST1:Jan 71:315:7843
  - TR:137:335

Hariharan, Mahadevan
- Dsc, with Mahesh P. Kapoor, ST7:July 73:1661:9826, of "Stiffness-Analysis of Cable-Stayed Bridges", ST7:July 72:1605:9036
- Dsc, with C. P. Vendhan, PO1:July 74:130:10636, of "Transmission Towers Under Torsional Loads", PO1:May 73:105:9701

Haring, Robert E.
- Dsc, WW2:May 72:284:8863, of "Offshore Floating Terminals", WW3:Aug 71:531:8295

Harkness, Richard C.
- Communications Substitutes for Intra-Urban Travel, TE3:Aug 72:585:9100
  - TR:138:307

Harlan, Richard C.
- See J. George Thon, SM9:Sept 71:1317:8361

Harlan, Thomas S.
- Polyethylene Pipe Slipped into Defective Sanitary Sewer, with William B. Allman, CE:June 73:78
  - TR:139:251

Harleman, Donald R. F.
- Numerical Studies of Unsteady Dispersion in Estuaries, with Chok-Hung Lee and Lawrence C. Hall, SA5:Oct 68:897:6160
  - Dsc: Edmund A. Prych, SA5:Oct 69:959:6802; Thomas R.E. Chidley, SA5:Oct 69:964:6802
  - Clo: SA3:June 70:845:7313
  - TR:135:657
- Salinity Intrusion Effects in Estuary Shoaling, with Arthur T. Ippen, HY1:Jan 69:9:6340
  - Dsc: Morrough P. OBrien, HY6:Nov 69:2168:6866; Emmanuel Partheniades, HY1:Jan 70:264:6988
  - TR:136:772
- Thermal Stratification due to Heated Discharges, ISSF:Aug 72:35
- Dsc, with Chok-hung Lee, HY1:Jan 69:495:6323, of "Mixed Technique for Computing Surges in Channels", HY2:Mar 68:349:5831
- Dsc, with Chok-Hung Lee, HY1:Jan 70:269:6988, of "Currents in an Interoceanic Canal", HY1:Jan 69:79:6342
- See Keith D. Stolzenbach, HY4:Apr :713:8799
- See John H. Nath, WW4:Nov 69:539:6924

See John H. Nath, WW2:May 70:373:7285
See Edward R. Holley, HY8:Aug 70:1691:7488
See John S. Fisher, CE13:72:III-2297
See Wayne C. Huber, HY4:Apr 72:645:8839
See Mark Markofsky, HY5:May 73:729:9730
See Patrick J. Ryan, HYB:Aug 73:191

Harlin, Curtis C.
See Richard E. Thomas, IR3:Sept 70:289:7538

Harlow, Eugene H.
Offshore Floating Terminals, WW3:Aug 71:531:8295
  Dsc: William P. Kinneman and Peter A. Hakman, WW2:May 72:279:8863; Per Moller Bruun, WW2:May 72:281:8863; Alexander M. Turitzin, WW2:May 72:282:8863; Robert E. Haring, WW2:May 72:284:8863; A. F. Dickson, WW2:May 72:285:8863
  Clo: WW4:Nov 72:9310
  TR:137:985
Dsc, Traffic Signals Waste Fuel, CE:Sept 74:36
Dsc, CE:Apr 71:41, on Population and People, CE:Dec 70:27

Harmon, Thomas G.
See Kanu S. Patel, ST4:Apr 73:621:9643
See Jose M. Roesset, ST4:Apr 73:637:9644

Harmon, William C.
Dsc, HY1:Jan 72:291:8620, of "Bed Load Transportation in Alluvial Channels", HY5:May 71:653:8091
See Donald A. Parsons, HY4:Apr 73:687:9637

Harms, Archie A.
Dsc, with Thomas H. Campbell, HY2:Mar 69:732:6433, of "Operational Hydrology Using Residuals", HY4:July 68:909:6034

Harms, Leland L.
Dsc, EE4:Aug 73:563:9893, of "Agricultural Runoff-Characteristics and Control", SA6:Dec 72:909:9406

Harn, Edwin W.
Civil Airport Design Criteria, TE1:Feb 69:13:6385
  Errata: TE1:Feb 70:115:7048
  TR:135:948

Harnden, C. Trevor
Tests of One and Two-Story Flat Plate Models, ST3:Mar 74:513:10392

Harpaz, Yoav
Artificial Ground-Water Recharge by Means of Wells in Israel, HY12:Dec 71:1947:8579
  TR:137:960

Harpel, K. R.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-525

Harper, A.
See Johan A. Zwamborn, 12CEC:71:13

Harper, G. Neil
See Niles O. Sutphin, UP1:Apr 71:63:8055

Harper, Martin E.
Drying of Sand-Digested Sludge Mixtures, with Brian W. Mar, SA2:Apr 70:381:7222
  Errata: SA1:Feb 71:120:7865
  TR:136:595
See Brian W. Mar, SA2:Apr 70:651:7190

Harpster, James D.
Dsc, CE:May 70:43, on The Civil Engineer and the Conservationist, CE:Feb 70:37

Harr, Milton E.
Euler Beams on a Two Parameter Foundation Model, with John L. Davidson, Da-Min Ho, Luis E. Pombo, S. V. Ramaswamy and John C. Rosner, SM4:July 69:933:6651
  Dsc: N. S.V. Kameswara Rao, SM3:May 70:1055:7249
  Clo: SM1:Jan 71:240:7785
  TR:136:816
See Arthur H. Dvinoff, SM1:Jan 71:47:7806
See Fredy Romani, SM11:Nov 72:1209:9349
See Robert E. Boyer, TE2:May 74:431:10533

Harrington, A.
See Nicholas Kouwen, IR73:Aug 73:273

Harrington, Joseph J.
See Ralf G. Cembrowicz, HY10:Oct 72:1890:9222
See Ralf G. Cembrowicz, HY10:Oct 72:1890:9222
See Ralf G. Cembrowicz, HY3:Mar 73:431:9606
See Lawrence J. Partridge, Jr., EE4:Aug 74:963:10729

Harris, Billy J.
Local Failure of Plastic-Foam Core Sandwich Panels, with Gene M. Nordby, ST4:Apr 69:585:6494
  Dsc: Howard G. Allen, ST2:Feb 70:417:7047
  Clo: ST8:Aug 70:1803:7442
  TR:135:959

Harris, D. Lee
The Analysis of Wave Records, 12CEC:71:85
Finite Spectrum Analyses of Wave Records, WAVES:Sept 74:107
Dsc, HY1:Jan 69:505:6323, of "Autocorrelation and Spectral Analysis in Hydrology", HY2:Mar 68:363:5837
See D. Esteva, 12CEC:71:101

Harris, Ernest C.
Longest Concrete-Arch Bridge in North America, with John A. Talbott, CE:July 72:49
  Clo: CE:Oct 72:66
  TR:138:329

Harris, Garth S.
Real Time Routing of Flood Hydrographs in Storm Sewers, HY6:June 70:1247:7327
  Dsc: Ben Chie Yen, HY2:Feb 71:368:7863; Shih-Tun Su, HY3:Mar 71:464:7940
  Clo: HY11:Nov 71:1893:8483
  TR:137:45

Harris, Harry G.
Inelastic Behavior Of R/C Cylindrical Shells, with Richard N. White, ST7:July 72:1633:9074
  TR:138:376

Harris, Philip J.
See Abdul Q. Khan, ST5:May 71:1646:8084

Harris, R. W.F.
The Resilient Mounting of RHM Centre (Tower Block), with R. W. Turner, TB:73:III-24-711

Harris, Robert B.
See John R. Baldwin, CO2:Nov 71:177:8501

Harris, Robert W.
Proposed Transportation and Visitor Center, TE3:Aug 70:301:7459
  Errata: TE3:Aug 71:578:8268
  TR:136:1032

Harris, Roland W.
See Douglas L. Inman, 12CEC:71:919

Harris, Stuart I.
Dsc, The unemployed engineer, CE:Mar 72:51

Harris, William
Role of Government in Public Works Development, PWS:Nov 72:167
  Clo: PWS:Nov 72:199

Harrison, Carter H., Jr.
Book Review: VNR Metric Handbook, CE:May 73:20
Public Works Capacity Expansion Based on Unit Cost, HY11:Nov 74:1707:10955
Upgrading Student Membership, PP1:Jan 73:119:9508
  Dsc: Paul C. Hassler, PP3:July 73:418:9824; Thomas C. Ferrara and Nathan D. Meeks, PP4:Oct 73:543:10040; Satyendra K. Ghosh, EI1:Jan 74:87:10252
  TR:139:181

Harrison, Howard B.
See Ian K. Lee, ST2:Feb 70:177:7059

Harrison, John
See Garbis H. Keulegan, WW2:May 70:219:7261

Harrison, Robert L.
See William S. Doyle, ST7:July 74:1459:10680

Harrison, W.
Field Study of a Tidal Inlet, Bimini, Bahamas, with R. J. Byrne, J. D. Boon, III and R. W. Moncure, 12CEC:71:1201

Harrison, W. Jill
Elastic Theory Applied to Reinforced Earth, with Charles M. Gerrard, SM12:Dec 72:1325:9417
  TR:138:575

Harrison & Abramovitz
McGraw-Hill, TB:73:C-P-430
Standard Oil of N.J., TB:73:C-P-431
United States Steel Corporation Building, TB:73:C-P-432

Harstead, Gunnar A.
Grouted Tendons for Nuclear Containment, with Richard E. Kummerle, PO2:Oct 69:277:6852
  Dsc: Chen Pang Tan, PO3:June 70:490:7312
  Clo: PO2:Mar 71:586:7942
  TR:136:197
Inelastic Behavior of H-Columns Under Biaxial Bending, with Charles Birnstiel and Keh-Chum Leu, ST10:Oct 68:2371:6173
  Clo: ST7:July 71:2011:8225
  TR:136:639
Testing Of Large Curved Prestressing Tendons, with Richard E. Kummerle, John C. Archer and Mark M. Porat, PO2:Mar 71:475:7966
  TR:137:870

Hart, Fred C.
Local Legislation and Its Impact on Transportation, UT73:May 73:63

Hart, Frederick
Dsc, with Raymond Jarema and T. Helfgott, SA3:June 72:598:8928, of "Biokinetic Evaluation of BOD Concepts and Data", SA3:June 71:287:8184

Hart, Gary C.
Building Dynamics Due to Stochastic Wind Forces, ST3:Mar 70:535:7154
  TR:136:848
Eigenvalue Uncertainty in Stressed Structures, EM3:June 73:481:9780
  TR:139:318
Stochastic Frame Response Using Modal Truncation, EM5:Oct 70:565:7596
  TR:137:21
See V. R. Mc Lamore, ST10:Oct 71:2567:8454
See Timothy K. Hasselman, EM3:June 72:561:8958
See Alan A. Chapman, TN: ST9:Sept 72:2137:9162
See Robert E. Holman, EM2:Apr 74:415:10502

Hart, H. H.
See M. Geleedst, WW4:Nov 68:415:6209

Hart, James L.
Swampy Site Turned into Prize-Winner, CE:June 73:82
  TR:139:257

Hart, Russell D.
See Arthur H. Benedict, EE3:June 74:529:10572
See Arthur H. Benedict, EE4:Aug 74:869:10701

Hart, Samuel A.
See Cord Tietjen, SA2:Apr 69:269:6506

Hart, Stanley I.
Dsc, CE:May 71:78, on The Alternative to Unionism, CE:Feb 71:43
Dsc, CE:Feb 74:22, on Putting Pollution Problems In Perspective, CE:Aug 73:64
Dsc, CE:May 74:103, on Participatory Management of Professionals, CE:Oct 73:71

Hart, William E.
Distribution Channels with Multiple Outlets, with John Borrelli, IR2:June 72:267:8976
  Errata: IR2:June 73:191:9761
  TR:139:73
Surface Irrigation Hydraulics and Kinematics, with Day L. Bassett and Theodor S. Strelkoff, IR4:Dec 68:419:6284
  Dsc: Yu-Si Fok, IR4:Dec 69:623:6930; Charles W. Lenau, IR4:Dec 69:624:6930; Cheng-lung Chen, IR4:Dec 69:627:6930
  TR:135:872
See John G. Sakkas, IR1:Mar 68:91:5852

Hartenstein, Alan Gene
See Sudershan Malhotra, SA5:Oct 71:629:8432

Hartkopf, Volker
See Robert Burnham, CEE:Feb 74:1-179

Hartlen, Ronald T.
Lift-Oscillator Model of Vortex-Induced Vibration, with Iain G. Currie, EM5:Oct 70:577:7606
  Dsc: Chin-Yih Kuo, EM2:Apr 71:585:8011; Geoffrey V. Parkinson, EM3:June 71:1023:8154
  Clo: EM1:Feb 72:257:8680
  TR:137:465

Hartley, Gilbert A.
Vogt Boundary for Finite Element Arch Dam Analysis, with Gregory M. McNeice and Walter Stensch, ST1:Jan 74:51:10269

Hartman, John Paul
Dsc, TE1:Nov 69:709:6868, of "Urban Gravity-Vacuum Transit System", TE1:Feb 69:173:6423
Dsc, CO2:Nov 71:335:8482, of "Development of Tunneling Methods and Controls", CO2:Oct 70:99:7577
See Robert D. Kersten, CEE:Feb 74:1-479

Hartman, Richard A.
Dsc, with Joseph R. Reed, HY9:Sept 72:1729:9156, of "Hydraulic Jump Assisted by Cross-Jet", HY12:Dec 71:2037:8614

Hartmann, Alois J.
Experimental Study of Flexural-Torsional Buckling, ST7:July 70:1481:7414
  Dsc: David A. Nethercot, ST3:Mar 71:1000:7944
  Clo: ST10:Oct 71:2605:8411
  TR:136:1325
Inelastic Flexural-Torsional Buckling, EM4:Aug 71:1103:8294
  Dsc: David A. Nethercot, EM1:Feb 72:280:8680
  Clo: EM5:Oct 72:1306:9221
  TR:137:705
Dsc, ST4:Apr 70:859:7191, of "Deformations of Geometrically Imperfect Beams", ST7:July 69:1475:6682
See Richard J. McCaffrey, ST6:June 72:1309:8988

Hartmann, Ludwig
Problems of Toxicity Measurements in Activated Sludge, with Gerhard Laubenberger, SA2:Apr 68: 247:5894
  Dsc: James W. Patterson and Patrick L. Brezonik, SA4:Aug 70:775:6706; Shankha K. Banerji, SA4:Aug 69:781:6706
  Clo: SA2:Apr 70:607:7190
  TR:135:534
See Peter Wilderer, SA1:Feb 72:262:8682

Hartsock, John A.
See Ken P. Chong, EM1:Feb 74:95:10370

Hartung, Friedrich K.
Dsc, with Klausotto Csallner, HY1:Jan 72:278:8620, of "Efficiency of Hydraulic Jump", HY3:Mar 71: 409:7994

Hartz, Billy J.
See John McGlenn, ST2:Feb 68:551:5821

Hartzell, Frank C., Jr.
Dsc, with Cetin A. Okcuoglu, PO3:June 70:486:7312, of "Analysis and Design of Tower Foundations", PO1:Mar 69:77:6469

Harung, Harald S.
General Failure Analysis of Skeletal Plane Frames, with Malcolm A. Millar, ST6:June 73:1051:9776
  TR:139:346

Harvey, James M.
See James Rhodes, ST8:Aug 71:2119:8327

Harvey, Roger C.
See Eldon Burley, GT5:May 74:559:10504

Harward, E. D.
See J. G. Terrill, SA3:June 69:545:6620

Harza, Richard D.
Introduction — Foundations of Dams, EFFD:Mar 74:1
Trends in Offshore Airports, TE4:Nov 72:985:9343
  Errata: TE4:Nov 73:959:10110
  TR:139:79
Dsc, CE:July 73:28, on Muskegon Sprays Sewage Effluents on Land, CE:May 73:49

Hasan, M. Riazul
Measured And Predicted Evaporation At Pasaje, Ecuador, with Peris S. Jones, TN: IR3:Aug 72:511: 9160
Dsc, IR4:Dec 72:610:9392, of "Ecological Impacts of Water Projects in California", IR1:Mar 72:25:8780

Hasen, Hans
Guri Hydroelectric Project Designed for Staged Development, with P. Palacios H., CE:Dec 71:55
  TR:137:792

Hashemi, Hadi T.
Effect of Seepage Stream on Artificial Soil Freezing, with Cedomir M. Sliepcevich, SM3:Mar 73:267: 9630
  Dsc: Stuart W. Churchill, SM12:Dec 73:1175: 10184
  Clo: GT7:July 74:864:10634
  TR:139:292

Hashimoto, Hiroshi
See Nobuo Shuto, 12CEC:71:1587

Hashish, Mahmoud G.
Free Vibration of Hyperbolic Cooling Towers, with Salman H. Abu-Sitta, EM2:Apr 71:253:8037
  Dsc: Ahmed K. Noor, EM1:Feb 72:265:8680
  Clo: EM5:Oct 72:1303:9221
  TR:137:690
Response of Hyperbolic Cooling Towers to Turbulent Wind, with Salman H. Abu-Sitta, ST5:May 74: 1037:10542
See Salman H. Abu-Sitta, ST9:Sept 73:1823:9989

Hasit, Yakir
See Jarir S. Dajani, EE2:Apr 74:325:10448

Hasofer, Abraham M.
Exact and Invariant Second-Moment Code Format, with Niels C. Lind, EM1:Feb 74:111:10376
Statistical Model for Live Floor Loads, ST10:Oct 68: 2183:6146
  Dsc: C. Allin Cornell and Ross B. Corotis, ST7: July 69:1576:6644; David E. Allen, ST7:July 69: 1581:6644
  Clo: ST2:Feb 70:411:7047
  TR:135:780
Time-Dependent Maximum of Floor Live Loads, TN: EM10:Oct 74:1086:10856
Dsc, ST1:Jan 69:133:6325, of "Probabilistic Models for Seismic Force Designs", ST5:May 68:1175:5950
Dsc, ST5:May 70:988:7250, of "Safety Factors and Probability in Structural Design", ST7:July 69:1389: 6667

Hassan, Ahmad Amin
Contribution of Minerals to the Ground Water Due to Agriculture in the Upper Santa Ana River Basin of Southern California, OIDS:72:245

Hassani, Jay J.
See Charles F. Millard, CE:June 71:71

Hasselman, Timothy K.
Linear Response to Nonstationary Random Excitation, EM3:June 72:519:8961
  TR:138:278
Modal Analysis of Random Structural Systems, with Gary C. Hart, EM3:June 72:561:8958
  TR:138:273

Hassler, Paul C.
Can Professionalism Be Taught, PP1:Sept 70:33:7551
Dsc, PP3:July 73:418:9824, of "Upgrading Student Membership", PP1:Jan 73:119:9508

Haswell, Charles K.
Pumped Storage and Tidal Power in Energy Systems, with Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297
  TR:138:603

Hatcher, D. S.
Test of a Reinforced Concrete Flat Slab, with Mete A. Sozen and Chester P. Siess, ST6:June 69:1051: 6585
  TR:135:109

Hatfield, Frank J.
Automated Formulation of Condition Equations, TN: SU1:Sept 73:151:10017
User-Optimized Traffic Assignment, TE2:May 74: 313:10519
Dsc, CE:Nov 70:65, on Undersea Oil Storage Tank, CE:Aug 70:57

Hatheway, Allen W.
See Richard B. Howell, CE:Apr 73:93

Hatt, Fritz
See Richard M. Barker, RM14:73:247

Hattersley, Ralph T.
Dsc, HY4:Apr 71:601:8012, of "136", HY7:July 70: 1403:7399

Hauer, Ezra
Determination of Wheel Trajectories, TE4:Nov 70: 463:7653
  Dsc: Wilfred Revell and John T. Tuohey, TE4: Nov 71:706:8486
  Clo: TE2:May 72:459:8862
  TR:137:843

Haug, Eberhard
Dsc, with Graham H. Powell, ST4:Apr 71:1360:8015, of "Inelastic Analysis of Suspension Roof Structures", ST5:May 70:905:7284

Haugen, Edward B.
See Paul H. Wirsching, EM6:Dec 73:1165:10223

Haugen, John C.
See Orville T. Magoon, CE13:72:II-1571

Haupt, Harold F.
See Edward R. Burroughs, Jr., IR1:Mar 72:1:8770

Haupt, Richard S.
Case History -- Embankment Failure on Soft Varved Silt, with James P. Olson, PES:72:I-1

Haupt, Wolfgang A.
Dsc, SM2:Feb 73:224:9524, of "In Situ Shear Wave Velocity by Cross-Hole Method", SM5:May 72:443:8904

Hauptman, Martin
See Vincent G. Terenzio, SA5:Oct 72:789:9225

Hauser, Louis G.
Cooling Water Sources For Power Generation, PO1:Jan 71:123:7804
TR:137:857

Hauser, Victor L.
See Robert L. McFall, CE:Apr 71:41

Hauskins, John B.
Kinematic Sound Screen: Unique Solution to Highway Noise Abatement, TE1:Feb 74:169:10353

Haverland, Michael L.
Methods of Performing and Interpreting In Situ Shear Tests, with Edward J. Slebir, RM13:72:107

Havers, John A.
Civil Engineering Education: A Preparation for Management, PP1:Sept 70:1:7544
TR:136:844
Education for Construction Engineering and Management, with Donn E. Hancher, CEE:Feb 74:1-662
See Frederick J. Seeger, TE4:Nov 70:603:7667
See Donn E. Hancher, TN: CO1:Mar 71:171:7972

Havner, Kerry S.
A Path Criterion for Deformation Plasticity Theory, EM3:June 69:747:6630
TR:135:15

Havno, K.
Limfjord Tunnel: Precast Sections in Underwater Trench, CE:July 69:59
TR:135:203

Hawaleshka, O.
The Development of Undular Bores with Friction, with S. B. Savage, 12CEC:71:461

Hawirko, Norman R.
Promotion as a Bikeway Planning Factor, BP73:Dec 73:661

Hawkes, Samuel L.
See Marlyn E. Clark, EM5:Oct 69:1189:6854

Hawkes, T. Wallace
Transportation Planning and the Environment, TE3:Aug 73:499:9949
Errata: TE3:Aug 74:789:10698
TR:139:427

Hawkins, Edward F.
Dsc, HY1:Jan 74:251:10251, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Hawkins, Neil M.
The Shear Strength of Reinforced Concrete Members—Slabs, by the Joint ASCE-ACI Task Committee 426 on Shear and Diagonal Tension of the Committee on Masonry and Reinforced Concrete of the Sturctural Division, ST8:Aug 74:1543:10733
Dsc, ST3:Mar 69:308:6430, of "Auxiliary Reinforcement in Concrete Connections", ST6:June 68:1485:6002
Dsc, EM2:Apr 70:167:7188, of "Fracture Mechanism in Concrete: How Much do We Know?", EM3:June 69:531:6604
Dsc, ST12:Dec 71:2902:8557, of "Eccentrically Loaded Bolted Connections", ST3:Mar 71:765:7956

Hawkins, Richard H.
Improved Prediction of Storm Runoff in Mountain Watersheds, TN: IR4:Dec 73:519:10188
Dsc, HY1:Jan 69:477:6323, of "Double-Mass Analysis on the Computer", HY1:Jan 68:139:5729
Dsc, IR2:June 69:6581, of "Erosion Control in Relation to Watershed Management", IR3:Sept 68:321:6126
Dsc, IR:Sept 69:353:6581, of "Effect of Tension on Stability of Embankments", SM5:Sept 68:1159:6127
Dsc, HY10:Oct 72:1885:9222, of "Two-Distribution Method for Flood Frequency Analysis", HY1:Jan 72:29:8639
See George B. Shih, IRS:Sept 72:433

Hawley, Eugene F.
See Dennis W. Berg, CE13:72:II-725

Hay, Nessim
Performance and Design of Labyrinth Weirs, with Geoffrey Taylor, HY11:Nov 70:2337:7691
Dsc: Louis A. Darvas, HY8:Aug 71:1246:8267
Clo: HY4:Apr 72:708:8799
TR:137:523

Hayakawa, Norio
Internal Hydraulic Jump In Co-Current Stratified Flow, TN: EM5:Oct 70:797:7573
Dsc, with John F. Ripken, HY9:Sept 72:1728:9156, of "Choking and Supercavitating Valves", HY12:Dec 71:1931:8593
See John F. Ripken, HY1:Jan 72:239:8678

Hayashi, Taizo
Formation of Dunes and Antidunes in Open Channels, HY2:Feb 70:357:7056
Dsc: Alfred Fuhrboter, HY11:Nov 70:2385:7641
Errata: HY2:Feb 71:353:7863
Clo: HY7:July 71:1135:8223
TR:136:648

Haycock, Edwin S.
Institutional Aspects of Water Management, OIDS:72:265

Hayden, Bruce
Impact of Beach Nourishment on Distribution of *Emerita talpoioa*, the Common Mole Crab, with Robert Dolan, WW2:May 74:123:10538

Hayden, Robert P.
See Anthony M. Di Gioia, Jr., CE:Dec 74:64

Haydl, Helmut M.
Collapse of Clamped Variable Thickness Circular Plates, with Archibald N. Sherbourne, TN: EM6:Dec 73:1309:10187

Haydock, J. L.
Dsc, HY4:Apr 70:1091:7189, of " Needle Valves as Pressure Regulators", HY5:Sept 69:1633:6787

Hayes, James C.
Inelastic Buckling of Axisymmetric Shells, with Lawrence H.N. Lee, EM6:Dec 70:1107:7765
Dsc: Robert G. Grant and Robert L. Mann, EM5: Oct 71:1573:8406; Anthony N. Palazotto, EM5: Oct 71:1576:8406
Clo: EM3:June 72:746:8924
TR:137:904

Hayes, John M.
Recommendations Concerning Proposed New ASCE Policy on Engineering Education (Discussion), with Donn E. Hancher, CEE:Feb 74:2-291
Dsc, CE:Mar 70:71, on Professionalism and Education, CE:Aug 69:27
Dsc, PP1:Oct 71:158:8408, of "The Ethics of Teacher Evaluation", PP1:Oct 71:153:8465
Dsc, with Carey H. Brown, Alfred C. Maevis, George L. Jackson and Gordon L. Williams, CE: Dec 71:63, on A Word With The Executive Director About. . . The Quality of Personal Success, CE:June 71:37

Hayes, Michael D.
See Jaroslav Pospisil, PO1:Jan 70:73:7012

Hayes, Miles O.
Offset Coastal Inlets, with Victor Goldsmith and Carl H. Hobbs, III, 12CEC:71:1187

Haynes, Harvey H.
Concrete Hulls For Undersea Applications, with Lawrence F. Kahn and Jerry D. Stachiw, CEO-II: 70:999
Concrete Hulls for Undersea Applications, with Lawrence F. Kahn and Jerry D. Stachiw, ST4:Apr 71:1283:8078
Errata: ST2:Feb 72:510:8684
TR:137:434
Cylindrical Concrete Hulls Under Hydrostatic Loading, with Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963
Errata: ST4:Apr 73:795:9640
TR:138:294

Haynes, Wesley E.
Should Registration Involve Politics?, CE:May 71:83
TR:137:389

Haynie, R. M.
Design of Stable Channels in Alluvial Materials, with Daryl B. Simons, HY2:Nov 68:1399:6217
Dsc: Charles R. Neill, HY3:May 69:1092:6524; Leonard Rice, HY3:May 69:1092:6524; R. E. Schiller, Jr., HY5:Sept 69:1750:6784; Christopher John Pratt, HY5:Sept 69:1753:6784; K. G. Ranga Raju and Ramachandra J. Garde, HY5:Sept 69:1753:6784; Ivan V. Egiazaroff, HY4:June 69:2151:6866
Clo: HY4:July 70:1607:7384
TR:135:962

Hays, Almond J., Jr.
A Least-Cost Analysis For The Houston Ship Channel, with Earnest F. Gloyna, CEO-II:70:269
Optimal Water Quality Management for Houston Ship Channel, with Earnest F. Gloyna, SA1:Feb 72: 195:8715
Dsc: William Whipple, Jr., SA6:Dec 72:1050:9393
Clo: EE5:Oct 73:743:10035
TR:139:130

Hays, Clifford O., Jr.
Nonlinear Discrete Element Analysis of Frames, with Hudson Matlock, ST10:Oct 73:2011:10091
TR:139:498
Dsc, ST9:Sept 72:2125:9159, of "Tangent Stiffness Method for Biaxial Bending", ST1:Jan 72:153:8637

Hayward, D. Geoffrey
Behavioral Perspective for Transportation Planning, MTI:May 72:27

Headley, Harvey W.
Dsc, TE4:Nov 69:697:6868, of "Private Engineering in Public Works", TE1:Feb 69:67:6396

Heady, Earl O.
Agricultural Water Allocation, Land Use, and Policy, with Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074
TR:139:418

Healy, Kent A.
'Filter-Fin' Multiplies Drain Effectiveness, with Richard P. Long, CE:Apr 74:50
Prefabricated Filter-Fin for Subsurface Drains, with Richard P. Long, IR4:Dec 72:543:9422
Dsc: Robert L. McFall, IR2:June 73:199:9761
Clo: IR1:Mar 74:94:10380
TR:139:189
Pullout Resistance of Anchors Buried in Sand, TN: SM11:Nov 71:1615:8511
Site Evaluation and Design of Seepage Fields, with Rein Laak, EE5:Oct 74:1133:10882
Dsc, with Grant Meitzler, SM3:May 68:811:5922, of "Skin Friction For Steel Piles in Sand", SM6:Nov 67:261:5590
Dsc, with Clarence W. Welti, SM11:Nov 72:1275: 9306, of "Expansion of Cavities in Infinite Soil Mass", SM3:Mar 72:265:8790
See Richard P. Long, IR4:Dec 71:651:8553

Heaney, James P.
Dsc, SA2:Apr 71:240:8013, of "Decentralized Solid Waste Collection Facilities", SA5:Oct 70:1035:7594
See George R. Grantham, SA5:Oct 70:1045:7578
See Buford J. Carter, Jr., SA3:June 71:345:8203

Hearon, William M.
See Blair T. Bower, EE1:Feb 73:1:9543

Heath, William E.
Dsc, CE:Feb 74:107, on Designing Bridge Decks That Won't Deteriorate, CE:Aug 73:43

Heathington, Kenneth W.
Evaluation of Urban Public Transportation, EI3:July 74:241:10662
Systems Approach and the Civil Engineer, with R. Brian Bonton, PP1:Oct 71:65:8457
Dsc: Thomas C. Kavanagh, PP1:Oct 71:75:8408; Edward A. Abdun-Nur, PP2:Apr 72:289:8818; Jagat N. Sharma, PP4:Oct 72:723:9224
TR:138:10
Traffic Volume Characteristics of Urban Freeways, with Paul R. Tutt, TE1:Feb 71:105:7921
TR:137:303

Hebaus, George G.
Crest Losses for Two-Way Drop Inlet, HY3:May 69: 919:6570
Dsc: Turgut Sarpkaya, HY2:Feb 70:589:7045
Clo: HY4:Apr 71:571:8012
TR:136:115

Hebert, Raymond E.
Dsc, SA3:June 69:671:6582, of "Filter Backwashing Tests and Upflow Equalization", SA1:Feb 68:129: 5813

Hecker, George E.
On Modeling Wind-Induced Water Currents, with Glenn A. Yale, HYB:Aug 73:335
See Ralph W. Gunwaldsen, PO4:Dec 71:767:8572
See Lawrence C. Neale, ISSF:Aug 72:399

Heckhard, John M.
See Joseph F. Hennessey, CE:Apr 74:36

Hedefine, Alfred
Design and Construction of Newport Bridge, with Herbert M. Mandel, ST11:Nov 71:2635:8529
TR:137:893
Newport Bridge Superstructure, with Louis G. Silano, ST11:Nov 71:2653:8533
TR:137:961

Newport Suspension Bridge, with Louis G. Silano, CE:Aug 70:64
Dsc: Juhani Virola, CE:Jan 71:59
Clo: Alfred Hedefine, CE:Jan 71:59
TR:136:670

Hedenland, Lloyd D.
See Hayman W. Stokes, CE:Sept 74:86

Hedges, Charles S.
Professional Practice for the Young Engineer, PP1:Sept 70:89:7558
TR:136:1201
Standard Test Boring with Drilling Mud, 4PCSM:71:1163

Hedley, William J.
Former President Hedley Honored, CE:Feb 72:56
Goals of the Conference, ABS:71:v
Hedley Receives Hoover Medal, CE:Dec 73:76

Heeps, David P.
Independent Comparison of Three Urban Runoff Models, with Russell G. Mein, HY7:July 74:995:10685

Heer, Ewald
See Jann-Nan Yang, TN: EM4:Aug 71:1307:8273

Heer, John E., Jr.
See D. Joseph Hagerty, SA3:June 71:384:8157

Heer, Lester A.
Responsibilities of Practicing Engineers and Technicians and Subprofessionals (Discussion), CEE:Feb 74:2-342

Heermann, Dale F.
Center Pivot Design Capacities in Eastern Colorado, with Hollis H. Shull and Rome H. Mickelson, IR2:June 74:127:10588

Heflin, Larry H.
Benefits of Tunnel Measurements, EFSE:Aug 74:366
Dsc: Birger Schmidt, EFSE:Aug 74:369; Charles Daugherty, EFSE:Aug 74:369; C. John Dunnicliff, EFSE:Aug 74:370; Michael Bozozuk, EFSE:Aug 74:370; Llewellyn A. Rubin, EFSE:Aug 74:370; C. Peter Wroth, EFSE:Aug 74:670; Raymond A. Forsyth, EFSE:Aug 74:371
Clo: EFSE:Aug 74:369
Dsc, EFSE:Aug 74:385, of "Identification of R&D Needs for Subsurface Site Investigations", EFSE:Aug 74:372

Heger, Frank J.
Design of FRP Fluid Storage Vessels, ST11:Nov 70:2465:7698
Errata: ST10:Oct 71:2607:8411
TR:136:1276

Heiberg, Sigurd
See Anwar E.Z. Wissa, SM10:Oct 71:1393:8447

Heidebrecht, Arthur C.
Analysis of Asymmetrical Coupled Shear Walls, with R. David Swift, ST5:May 71:1407:8100
TR:137:633
Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, with Bryan Stafford Smith, ST12:Dec 73:2355:10234
Dsc: Riko Rosman, ST9:Sept 74:1977:10772; Andrew W. Irwin and Stuart A. Findlay, ST9:Sept 74:1978:10772
TR:139:534
Approximate Analysis of Tall Wall-Frame Structures, with Bryan Stafford Smith, ST2:Feb 73:199:9550
Dsc: Alexander Coull, ST11:Nov 73:2326:10113; Riko Rosman, ST12:Dec 73:2501:10185
Clo: ST7:July 74:1524:10637
TR:139:218
Frequency Analysis Of Thin-Walled Shear Walls, with Ravinora K. Raina, EM2:Apr 71:239:8028
TR:137:545

Heidhardt, Glen L.
See Leif E. Fugelso, EM6:Dec 68:1337:6266

Heifitz, Joseph H.
Dynamic Response of Nonlinear Media at Large Strains, with Carl J. Costantino, EM6:Dec 72:1511:9451
TR:138:603

Heilman, William L.
See James D. Calvert, PO1:June 72:93:8981

Heilstedt, Paul K.
Code Acceptance of Unique Building Materials and Systems, CO4:Dec 74:553:11023

Heiman, John L.
Deflections of Lightweight Reinforced Concrete Beams, TB:73:III-25-811
See Frank A. Blakey, TB:73:III-25-775

Heimbach, Clinton L.
Paved Highway Shoulders and Accident Experience, with William W. Hunter and George C. Chao, TE4:Nov 74:889:10921

Heine, Walter N.
Treatment of Mine Drainage by Industry in Pennsylvania, with Ernest F. Giovannitti, SA3:June 70:743:7362
TR:136:964

Heinemann, Herman G.
Dsc, with David L. Rausch, HY9:Sept 71:1555:8345, of "Chapter III. Sediment Measurement Techniques: Reservoir Deposits", HY12:Dec 70:2417:7781

Heins, Conrad P., Jr.
Behavior of Single Horizontally Curved Girder, with Kenneth R. Spates, ST7:July 70:1511:7420
Errata: ST5:May 71:1639:8084
TR:136:1031
Behavior of Stiffened Curved Plate Model, with Robert L. Hails, ST11:Nov 69:2353:6876
Dsc: Chen Pang Tan, ST5:May 70:1001:7250; Ganpat S. Pandit, ST8:Aug 70:1813:7442
Clo: ST3:Mar 71:964:7944
TR:136:329
Bridge Analysis Using Orthotropic Plate Theory, with Charles T.G. Looney, ST2:Feb 68:565:5822
Dsc: Anatol A. Eremin, ST1:Jan 69:124:6325
Clo: ST8:Aug 69:1768:6707
TR:135:433
Bridge Tests Predicted by Finite Difference Plate Theory, with Charles T.G. Looney, ST2:Feb 69:249:6421
Dsc: Carl Berwanger, ST12:Dec 69:2992:6932
Clo: ST6:June 70:1240:7314
TR:135:942
Composite Beams in Torsion, with John T.C. Kuo, ST5:May 72:1105:8921
TR:138:275
Multicell Curved Girder Model Studies, with Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835
Dsc: A. Rajaraman, ST4:Apr 73:791:9640
Clo: ST10:Oct 73:2207:10039
TR:139:39
See Lansford C Bell, ST8:Aug 70:1657:7462
See Henry W.L. Lee, ST4:Apr 71:1143:8045
See Chai Hong Yoo, ST4:Apr 72:899:8848
See Francis A. Murad, ST4:Apr 72:915:8855
See Peter G. Perry, ST11:Nov 72:2491:9326
See Donald R. Evick, ST12:Dec 72:2769:9453
See Donald W. Funkhouser, ST7:July 74:1379:10670

Heins, Robert W.
See Robert G. Lundquist, RM14:73:329

Heintzleman, Walter G.
The City and the Civil Engineer, PP1:Oct 71:55:8479
TR:137:1022

Observations on Civil Engineering Executive/Management Needs as a Part of Civil Engineering Education, CEE:Feb 74:1-361
Public Affairs and Administrative Involvement, PP1:Jan 73:47:9509
TR:139:192

Heiser, William J.
Dsc, CE:Sept 71:87, on Engineering-Architecture Interprofessional Practice, CE:Apr 71:37

Heithecker, Gary L.
See Edward C. Holt, ST10:Oct 69:2205:6838

Heitner, Kenneth L.
Numerical Model for Tsunami Run-Up, with George W. Housner, WW3:Aug 70:701:7491
Errata: WW4:Nov 71:766:8488
TR:136:1071

Hejal, Salim S.
Optimal Selection of Flexible Pavement Components, with Thomas R. Buick and Joseph C. Oppenlander, TE2:Feb 71:1:7877
Dsc: Richard de Neufville, TE4:Nov 71:715:8486
TR:137:728

Helfgott, T.
Analytic and Process Classification of Effluents, with J. V. Hunter and D. Rickert, SA3:June 70:779:7374
Errata: SA1:Feb 71:129:7865
TR:137:56
See Frederick Hart, SA3:June 72:598:8928

Helfinstine, John D.
Yielding of Fiber Reinforced Tresca Material, with Richard H. Lance, EM4:Aug 72:849:9132
TR:138:389

Helfinstine, Robert A.
High-Speed Train Simulation Using Hydrodynamics, with Charles Dalton, EM2:Apr 72:357:8804
TR:138:162

Helland-Hansen, Erik
Sediment Transport at Low Shields-Parameter Values, with Robert T. Milhous and Peter C. Klingeman, TN: HY1:Jan 74:261:10283

Heller, Laszlo
See Paul Rogers, CE:Oct 72:56

Heller, Lyman W.
Seismic Effects on Earth Dam from Explosion, TN: SM11:Nov 73:1038:10/48

Heller, Robert A.
See George W. Swift, EM2:Apr 74:267:10484

Hellesland, Jostein
Sustained and Cyclic Loading of Concrete Columns, with Roger Green, ST4:Apr 71:1113:8033
Dsc: John E. Campbell, ST10:Oct 71:2627:8411; Narayana K. Raju, ST12:Dec 71:2923:8557
Clo: ST8:Aug 72:1871:9079
TR:137:553
Dsc, ST6:June 71:1827:8159, of "Effects of Creep and Shrinkage on Prestressed Concrete Columns", ST10:Oct 70:2103:7614
Dsc, ST2:Feb 72:511:8684, of "Sustained Biaxial Load on Slender Concrete Columns", ST5:May 71:1423:8103
Dsc, with Roger Green, ST9:Sept 72:2122:9159, of "Slender Concrete Columns Under Sustained Load", ST11:Nov 71:2729:8544

Hellman, Lars
See Bengt B. Broms, SM2:Mar 68:421:5846

Helm, James C.
See Guy L. Curry, HY12:Dec 73:2353:10246

Helms, Billy P.
Locational Models for Solid Waste Management, with Robert M. Clark, UP1:Apr 71:1:8061
Errata: UP1:July 72:108:9005
TR:137:736
Selecting Solid Waste Disposal Facilities, with Robert M. Clark, SA4:Aug 71:443:8280
Dsc: Melvin W. Jackson, SA1:Feb 72:266:8682; Jon C. Liebman, SA1:Feb 72:267:8682; Masaru Tanaka, SA1:Feb 72:269:8682; Keith J. Roberts, SA2:Apr 72:456:8800
Clo: SA6:Dec 72:1040:9393
TR:138:4
See Robert M. Clark, SA5:Oct 70:1035:7594
See Robert M. Clark, SA1:Feb 72:71:8720

Helms, Russell E.
The Aftereffects of Annexation--A Case Study, UP1:Apr 69:15:6490
TR:136:811

Helvey, J. D.
Watershed Behavior After Forest Fire in Washington, IR73:Aug 73:403

Hemming, Charles
Local Sections and Social Action: How It Stands, CE:Nov 70:33
TR:136:1109
What Industry is Doing About Pollution Control, CE:Sept 71:59
TR:137:556

Hemp, G. W.
See R. L. Sierakowski, EM2:Apr 72:481:8798

Henderson, Arn
See Richard D. Bauman, UP1:Mar 74:29:10384

Henderson, Clark
Specialization of Urban Transportation Systems, UTI:71:405

Henderson, John M.
Enteric Disease Criteria for Recreational Waters, SA6:Dec 68:1253:6320
Dsc: Clifford W. Randall, SA5:Oct 69:990:6802
Clo: SA2:Apr 70:617:7190
TR:135:291
Water Pollution - Facts and Fantasies, SA3:June 72:529:8966
Errata: EE5:Oct 73:745:10035
TR:139:301
Dsc, SA4:Aug 71:531:8269, of "Water and Health-Are We Concerned Enough?", SA5:Oct 70:1147:7595

Henderson, Krieger W., Jr.
Dsc, CE:Sept 74:34, on California Tackles Highway Noise, CE:Nov 73:56
See James R. Novak, TE4:Nov 70:523:7663

Henderson, Thomas J.
Applications Programs of Hail Suppression, OIDS:72:403

Henderson, William
Aesthetics of Tall Buildings, TB:73:Ia-1-256

Hendricks, David W.
See A. Bruce Bishop, SA1:Feb 71:41:7898

Hendrickson, E. R.
Environmental Impact of Wastewater Discharges, with J. B. Koogler, SEA:70:91

Hendrickson, James A.
See Basil W. Wilson, CE13:72:III-2617

Hendron, Alfred J., Jr.
See Edward J. Cording, URC:72:567

Hendry, Arnold W.
Masonry Structures, Theme Report, TB:73:III-27-957

Henkel, David J.
Geotechnical Considerations Of Lateral Stresses, LS: 70:1

Henneberger, Wayne
First Segmental Bridge in U.S., with John E. Breen, CE:June 74:54

Hennessey, Joseph F.
"NEPA and the Courts, a Legal Analysis of the National Environmental Policy Act," by Frederick R. Anderson (Book Review), with John M. Heckhard, CE:Apr 74:36

Henningsgaard, Charles E.
Dsc, CE:Sept 74:40, on The Pressure Sewer: A New Alternative to Gravity Sewers, CE:May 74:50

Henry, Hugh B.
Federal Experience in TOPICS, TE3:Aug 72:509: 9097
  TR:138:292

Henry, Keith A.
Conception Investigation and Design of Arrow Dam, with Nigel P. Grant, PO1:May 68:41:5940
  Clo: PO2:Oct 69:361:6801
  TR:135:725
Earth Dam Built Without Dewatering, CE:Jan 71:37
  TR:137:10

Henry, Robert F.
Simulation of Long Waves in Branching Waterways, HY4:Apr 72:609:8831
  Errata: HY2:Feb 73:381:9523
  TR:138:224

Henry, Robert L.
Prestressed Beams in Torsion, Bending, and Shear, with Paul Zia, ST5:May 74:933:10560
  Dsc: Himat T. Solanki, ST12:Dec 74:2530:10977
Dsc, EI1:Jan 74:89:10252, of "An Educator-Practitioner Interaction Program", PP2:Apr 73:259: 9674

Hensley, Marble J.
Guide for Public Agency Professional Development, PP1:Sept 70:55:7553
  Dsc: John D. Bristor, PP1:Oct 71:231:8408

Hensley, Robert J.
See Myron W. DeGeer, WW4:Nov 71:631:8494

Hentrich - Petschnigg & Partner
Standard Bank Centre (Johannesburg S.A.), TB:73:C-P-446
Thyssenhaus, TB:73:C-P-448
Unileverhaus, TB:73:C-P-450

Henzi, Jane A.
Gateway National Recreation Area, CEWAU:74:69

Hepler, William
The Bicycle Locker - The Urban Solution, BP73:Dec 73:507

Herbert, Charles F.
ASCE Member Tests Pipeline, CE:Nov 73:85

Herbert, Howell H.
Transportation Within Airports, TE2:May 69:259: 6536
  TR:135:273

Herbertson, John G.
Dsc, HY1:Jan 69:473:6323, of "Alluvial Channel Resistance to Bed Form", HY1:Jan 68:59:5720
Dsc, HY1:Jan 69:559:6323, of "Effects of Density Ratio on Sedimentary Similitude", HY3:May 68: 705:5948
Dsc, HY2:Mar 69:740:6433, of "Rationalization of Lacey's Regime Flow Equations", HY4:July 68:983: 6039

Herbich, Henryk Pawel
Memoir of, TR:135:1127

Herbich, John B.
Comparison of Model and Beach Scour Patterns, 12CEC:71:1281
Dredging Methods For Deep-Ocean Mineral Recovery, WW2:May 71:385:8120
  TR:137:312
Forces Due to Waves on Submerged Structures, with George E. Shank, WW1:Feb 71:57:7870
  Dsc: Subrata K. Chakrabarti, WW3:Aug 71:592: 8272
  Clo: WW4:Nov 72:9310
  TR:137:862
Methods For Deep-Ocean Mineral Recovery, CEO-II:70:297
Supercritical Flow in Rectangular Expansions, with Peter Walsh, HY9:Sept 72:1691:9216
  Dsc: Chesley J. Posey, HY8:Aug 73:1278:9895
  TR:139:106
Dsc, WW3:Aug 68:362:6053, of "Dredging Fundamentals", WW3:Aug 67:45:5390
See Lyndell Z. Hales, CE13:72:I-669
See Brian J. Van Weele, CE13:72:III-1935

Herington, John R.
See Ian K. Lee, SM6:June 72:625:8999
See Ian K. Lee, SM9:Sept 72:973:9158

Herman, Lloyd G.
See Winfred F. Maline, NSCD:71:307

Herman, William I.
Financing Metro, TE4:Nov 70:571:7680
  TR:136:1291

Hermann, Edward R.
See Ronald D. Neufeld, EE6:Dec 73:966:10180

Hermsmeier, Lee F.
Friction Factors for Corrugated Plastic Tubing, with Lyman S. Willardson, IR3:Sept 70:265:7531
  Dsc: Andre Van der Beken, IR2:June 71:330: 8156; Pashupati N. Modi, IR2:June 71:333: 8156; Mordechai H. Diskin, IR2:June 71:334: 8156; Gee Tsang and Ross W. Irwin, IR2:June 71:334:8156
  Clo: IR3:Sept 72:495:9157
  TR:137:850

Herod, John E.
Drag Reduction in Dredge-Spoil Pipe Flows, with William G. Tiederman, TN: 1974

Herrenkohl, Roy C.
Behavioral Aspects of High Rise Buildings, BP73:Dec 73:442
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, TB:73: C-AC19-139

Herrera, Ismael
Dsc, with Jacobo Bielak, EM5:Oct 73:1097:10041, of "Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids", EM4:Aug 72:947: 9152

Herring, David M.
1,250-ton Rotating Derrick, CE:July 71:53
  TR:137:462

Herrmann, Leonard R.
Interpretation of Finite Element Procedure As Stress Error Minimization Procedure, TN: EM5:Oct 72: 1330:9228
Dsc, with Karl M. Romstad, Chih-Kang P. Shen and Jerry C-Y Chan, GT8:Aug 74:958:10695, of "Reinforced Earth Retaining Walls", SM10:Oct 73: 745:10068
See William E. Mason, EM4:Aug 68:965:6082
See David Q. Fletcher, EM1:Feb 71:95:7932
See Stevens T.K. Chan, HY6:June 73:959:9787
See Karl M. Romstad, EM5:Oct 74:935:10879

Herron, William J., Jr.
Case History of Mission Bay Inlet, San Diego, California, CE13:72:II-801

Herrschaft, D. C.
See Peter C. Birkemoe, CE:Apr 70:42

Hersh, Alan S.
Construction Noise-Its Origin and Effects, CO3:Sept 74:433:10827

Hershberger, Edward E.
Construction Innovations at Dworshak Dam, CO3: Sept 74:303:10793
Requirements For Efficient Concrete Placement, RCCD:70:15

Hershdorfer, Alan M.
See Lavette C. Teague, Jr., ST4:Apr 68:983:5901

Hertzendorf, Martin S.
Pneumatic Barrier and Beach Pollution, with Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2: Apr 72:379:8821
TR:138:304

Hertzka & Knowles
100 Pine Street, TB:73:C-P-394

Herzog, Max A.M.
Ultimate Static Strength of Plate Girders from Tests, ST5:May 74:849:10530

Hess, Milton S.
Dsc, EM1:Feb 69:301:6371, of "Collocation and Eigenfunctions in Plane Elastostatics", EM3:June 68:797:5998

Hesse, Victor L.
See Stephen V. Allison, IR4:Dec 69:537:6978

Hester, James G.
Bad Creek Pumped Storage Project, with Robert F. Edmonds, EPCE:Aug 74:241

Hetherington, Roger Le Geyt
Welcoming Remarks, PWS:Nov 72:1

Hetling, Leo J.
Dsc, with Donald R. Washington, SA6:Dec 69:1206: 6931, of "Energy Concepts of Aerobic Microbial Metabolism", SA2:Apr 69:253:6505
See Italo G. Carcich, EE1:Feb 74:25:10315
See Italo G. Carcich, CE:May 74:50

Heubeck, Andrew, Jr.
Program for Water-Pollution Control in Maryland, with James B. Coulter, Paul W. McKee, James J. O'Donnell and Donald W. Pritchard, SA2:Apr 68: 283:5900
TR:135:552

Heuer, Donald E.
Important Ground Parameters in Soft Ground Tunneling, EFSE:Aug 74:41

Heuer, Ronald E.
Selection/Design of Shotcrete for Temporary Support, SUSS:July 73:160

Heunisch, Michael
See Gert Konig, TB:73:III-23-613

Heuze, Francois E.
"Room and Pillar" Structures in Competent Rock, with Richard E. Goodman, URC:72:531
Three-Dimensional Approach for Design of Cuts in Jointed Rock, with Richard E. Goodman, RM13: 72:397
See Richard E. Goodman, RM14:73:441

Hewitt, Harvey G.
See Huai-Yun Hsu, OIDS:72:115

Hewitt, John S.
Vibrations of Triangular Viscoelastic Plates, with Jagannath Mazumdar, EM6:Dec 74:1143:11004

Hewitt, Marilyn
See Walter A. Lyon, CE:May 74:30

Hewlett, John D.
The Varying Source Area Of Streamflow From Upland Basins, with Wade L. Nutter, IAWM:72:65

Hewton, J. T.
Metropolitan Toronto Traffic Surveillance and Control System, CE:Feb 69:40
TR:135:154

Hibbard, William R.
Subassemblage Technique for Asymmetric Structures, with Peter F. Adams, ST11:Nov 73:2259:10132
Dsc: K. S. Rajagopalan, ST8:Aug 74:1739:10697
TR:139:512

Hickerson, Thomas Felix
Memoir of, TR:135:1128

Hickman, H. Lanier, Jr.
Planning Comprehensive Solid Wastes Management Systems, SA6:Dec 68:1147:6303
TR:135:777

Hickok, Eugene A.
Flood-Control Plan for Minnesota Watershed, CE: Apr 73:85
TR:139:157

Hickok, Pashupati B.
Dsc, HY5:Sept 68:1357:6087, of "Determination of Efficient Open Channel Sections", HY6:Nov 67: 103:5567

Hicks, Joe A., Jr.
Right-of-Way Surveys, SU2:Sept 68:227:6121
TR:136:576

Hicks, R. Gary
See Paul H. Wright, BP73:Dec 73:368

Hider, V. Harry
Dsc, CE:June 72:73, on Residential-Recreation Development, CE:Dec 71:60

Hiemstra, Lourens A.V.
Run Hydrographs from Poisson Generated Run Lengths, HY11:Nov 74:1617:10959

Higashi, Yoichi
Reinforced Concrete Beam-Column Joints, with Yoshimasa Owada, TB:73:III-21-259
Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, with Toshikazu Takeda, TB: 73:III-24-655

Higgins, David T.
Dsc, HY12:Dec 70:2642:7711, of "Nonsteady Flow to Surface Reservoir", HY3:Mar 70:609:7137

Higgins, George R.
Positive Points on Electric Power, PP1:Jan 72:65: 8666
TR:138:204

Higgins, Robert F.
Reinforced Masonry Bearing Walls Used in 13-Story Buildings, CE:Nov 70:40
TR:136:994

Higgins, Theodore R.
Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, TB:73:II-1
1969 AISC Specifications, CE:Oct 69:53
TR:135:953

Higginson, Elmo C.
Bureau of Reclamation Experiences With Concrete Admixtures, RCCD:70:103

Higgs, James Allen, Jr.
Memoir of, TR:137:1063

Higgs, John
See Geoffrey B. Warburton, EM6:Dec 71:1743:8551

Hight, Hugh W.
Cabin Creek Pumped Storage Hydroelectric Project, PO1:Jan 71:135:7826
TR:137:167

Highter, William E.
Dsc, with Jerry E. Stoneking, EM3:June 74:615:10565, of "Buckling of Beams Supported by Pasternak Foundation", EM3:June 73:565:9812

Higley, Paul D.
Rapid Coastal Bottom Water Temperature Rises, with David O. Cook, EE4:Aug 74:955:10734

Higonnet, Bernard T.
Dsc, TE1:Feb 72:188:9526, of "Benefit Measurements of Highway Electronic Route Guidance", TE1:Feb 72:51:8742

Hilaly, Nabil
Water Waves Over a Rectangular Channel Through a Reef, WW1:Feb 69:77:6409
TR:136:661

Hildago, Jorge
See Mark F. Nelson, ST12:Dec 72:2820:9395

Hiler, Edward A.
Stress Day Index ... A New Concept for Irrigation Timing, with Terry A. Howell and David G. Bordovsky, OIDS:72:579
See Wilfredo P. David, IR3:Sept 70:241:7507
See Terry A. Howell, IR4:Dec 74:443:10983

Hilf, Jack W.
Opening Remarks, ECCD:72:1
Stability and Performance of Slopes and Embankments (Book Review), CE:Aug 70:90

Hill, Alan T.
Residential-Recreation Development, CE:Dec 71:60
Dsc: V. Harry Hider, CE:June 72:73
TR:137:800

Hill, Albert L.
Dsc, HY4:Apr 71:592:8012, of "Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY5:May 70:1157:7269

Hill, Barry J.
Two-Dimensional Analysis of Flow in Jet Pumps, HY7:July 73:1009:9847
Errata: HY6:June 74:828:10567
TR:139:321

Hill, Duane W.
Water Management and the Public, with Roy L. Meek, UWRM:71:43

Hill, Floyd R.
See Frank D. Masch, 12CEC:71:2031

Hill, Harry M.
Instability of Flat Bed in Alluvial Channels, with Vajapeyam S. Srinivasan and Tharakkal E. Unny, HY5:Sept 69:1545:6770
Dsc: Thomas Maddock, Jr., HY4:Apr 70:1080:7189; Abu M.Z. Alam, HY4:Apr 70:1081:7189; Charles R. Neill, HY4:Apr 70:1085:7189; Mohammad Akram Gill and P. Natarajan, HY4:Apr 70:1086:7189; Johannes Gessler, HY4:Apr 70:1088:7189; Hans Vollmers and Egon Giese, HY6:June 70:1357:7310; K. G. Ranga Raju and Ramachandra J. Garde, HY7:July 70:1617:7384
Clo: HY3:Mar 71:443:7940
TR:136:196
See Nicholas Kouwen, IR2:June 69:329:6633
See Gordon Keir, HY4:Nov 69:1781:6875

Hill, Luther, Jr.
What the General Contractor Looks for in a Recent Graduate, CEE:Feb 74:1-374

Hill, Millard M.
See Neil T. Monney, CO1:Jan 68:89:5760

Hill, Raymond A.
Dsc, IR4:Dec 69:641:6930, of "Salt and Water Balance in Coachella Valley, California", IR1:Mar 69:55:6437
Dsc, HY3:Mar 73:536:9580, of "Present and Future Salinity of Colorado River", HY3:Mar 72:503:8769

Hill, Stuart L.
Watts Revisited: Transportation and Community Values: Century Freeway, CE:Sept 69:56
TR:135:919

Hill, William F., Jr.
Viral Disinfection of Estuarine Water by UV, with Elmer W. Akin, William H. Benton and Frederick E. Hamblet, NSCD:71:223
Viral Disinfection of Estuarine Water by UV, with Elmer W. Akin, William H. Benton and Frederick E. Hamblet, SA5:Oct 71:601:8423
TR:137:818

Hillegass, Thomas J.
Community Decision Structure and Urban Planning Process, with Charles C. Schimpeler and William L. Grecco, UP1:Mar 70:17:7126
Dsc: Charles E. Zell, UP1:Apr 71:119:8016
TR:137:26

Hillis, Sidney F.
Dsc, with Nigel A. Skermer, SM1:Jan 69:436:6324, of "The Significance of Cap and Base Restraint", SM1:Jan 68:271:5768

Hillman, Jimmye S.
See William E. Martin, IR4:Dec 69:611:6930

Hills, David K.
Hydraulically Ventilated Underground Filter, with Ray B. Krone, SA6:Dec 71:851:8596
Dsc: Thiruvenkatachari Viraraghavan, SA5:Oct 72:798:9225
Clo: EE3:June 73:377:9758
TR:139:64

Hilsdorf, Hubert K.
Masonry Materials and Their Physical Properties, State-of-Art Report 2, TB:73:III-27-981
See Edwin G. Burdette, ST2:Feb 71:587:7905

Hilton, J. I.
See B. J. Wallace, SM10:Oct 72:1081:9273

Hilts, David E.
See Stanley D. Wilson, TE3:Aug 72:563:9101

Himelright, Loring K.
Dsc, CE:Feb 72:39, on Professional Input to Engineering Education, CE:Aug 71:27

Himmelblau, David M.
See Perry W. Cockerham, EE2:Apr 74:279:10446

Hindley, Peter D.
Evaluating Water Surface Heat Exchange Coefficients, with Russell M. Miner, HY8:Aug 72:1411:9118
  Dsc: Edward Silberman, HY4:Apr 73:699:9637
  Clo: HY10:Oct 73:1887:10037
  TR:139:82
Thermal Discharge: A Model-Prototype Comparison, with Russell M. Miner and Ramon F. Cayot, PO4:Dec 71:783:8580
  TR:137:954

Hines, Frank Matthews
Memoir of, TR:138:627

Hines, Virginia M.
Tunnel Vision or Ecological View, IR3:Sept 71:397:8368
  Dsc: Melvin W. Jackson, IR1:Mar 72:172:8750; Mohammad Akram Gill, IR2:June 72:331:8926; Robert L. McFall, IR2:June 72:333:8926
  TR:138:28

Hino, Mikio
Runoff Forecasting By Variable Transformation, HY4:Apr 70:871:7203
  TR:136:676
Runoff Forecasts by Linear Predictive Filter, HY3:Mar 70:681:7146
  Dsc: Mehmetcik Bayazit, HY11:Nov 70:2394:7641
  Clo: HY6:June 71:866:8155
  TR:136:655

Hinueber, G. L.
See Everett C. Rodabaugh, UPC:Apr 71

Hipel, Keith W.
Metagame Analysis of Water Resources Conflicts, with R. K. Ragade and Tharakkal E. Unny, HY10:Oct 74:1437:10861

Hipkins, D. L.
Acoustic Techniques Suitable for Use in Soil, with L. A. Whitney, EFSE:Aug 74:159

Hirai, Itio
Eigenvalue Analysis of Structures by Folding Force, with Torazo Yoshimura, EM6:Dec 70:1081:7728
  Errata: EM6:Dec 71:1742:8551
  TR:136:1301

Hironaka, Melvin C.
Foundation Study for Materials Test Structure, with Raymond J. Smith, SM6:Nov 69:1431:6921
  Dsc: Leonard J. Langfelder and John H. Brewer, SM3:May 70:1081:7249
  Clo: SM1:Jan 71:248:7785
  TR:136:352

Hirsch, A. Adler
Basin Tracer Curves Interpreted by Basic Analytics, SA6:Dec 69:1031:6951
  TR:136:269
Filter Backwashing Tests and Upflow Equalization, SA1:Feb 68:129:5813
  Dsc: John L. Cleasby, SA4:Aug 68:766:6049; Jerzy M Moskala, SA5:Oct 68:1038:6134; Raymond E. Hebert, SA3:June 69:671:6582
  Clo: SA1:Feb 70:166:7046
  TR:135:502

Hirsch, Lawrence
Dsc, Omit Metrics, CE:June 74:22

Hirsch, Teddy J.
See Thomas Charles Edwards, ST7:July 69:1431:6663
See Ibrahim H. Sulaiman, SM1:Jan 70:353:6989

Hirschfeld, Ronald C.
Session V: Special Topics (Hydraulic Fills, Performance, Evaluation, etc.), PISST:71:165
See Herbert H. Einstein, SM3:Mar 73:229:9610

Hirshberg, Charles I.
See Krishnaswamingar Keshavan, EE5:Oct 73:569:10045

Hirst, Eric
Automobile Energy Requirements, TE4:Nov 74:815:10909
Buoyant Jets with Three-Dimensional Trajectories, HY11:Nov 72:1999:9378
  Dsc: George M. Ayoub, HY12:Dec 74:1833:10974; Peter A. Mangarella, HY2:Feb :11088
  TR:138:563
Energy-Intensiveness of Transportation, TE1:Feb 73:111:9558
  Dsc: Richard A. Lill, TE4:Nov 73:967:10110
  Clo: TE3:Aug 74:784:10698
  TR:139:195
Dsc, SA4:Aug 71:536:8269, of "Environmental Protection-TVA Experience", SA6:Dec 70:1321:7761
Dsc, HY1:Jan 72:299:8620, of "Two-Dimensional Surface Warm Jets", HY6:June 71:819:8186

Hirt, Manfred A.
Fatigue Strength of Rolled and Welded Steel, with Ben T. Yen and John W. Fisher, ST7:July 71:1897:8238
  TR:137:986

Hirten, John E.
Balancing Transportation, BP73:Dec 73:1

Hisada, Toshihiko
Loading and Response Criteria and Code Requirements, State-of-Art Report 7, TB:73:Ib-6-267

Hisatoku, Toshiharu
Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, with Fujio Nishikawa, TB:73:Ia-3-501

Hissong, Dale E.
See Benjamin H. Pringle, SA3:June 68:455:5970

Hitchcock, Woodrow W.
See Thomas E. Hoover, TE1:Feb 73:53:9518

Hjelmfelt, Allen T.
Nonequilibrium Transport of Suspended Sediment, with Charles W. Lenau, HY7:July 70:1567:7430
  Dsc: Amarendra N. Biswas and Arunendu Sen, HY5:May 71:747:8081
  TR:137:836

Hlavacek, Vladislav
Dsc, ST3:Mar 70:740:7116, of "Buckling of Light-Gage Corrugated Metal Shear Diaphragms", ST7:July 69:1497:6683

Ho, Da-Min
See Milton E. Harr, SM4:July 69:933:6651

Ho, Hwa-Shan
Limit Pressures of Rigidly Clamped Circular Cylindrical Shells, EM4:Aug 74:757:10759

Ho, Jackson
See Ernest T. Selig, TN: SM6:June 71:953:8162

Ho, Michael M.K.
Contact Pressure of a Rigid Circular Foundation, with R. Lopes, SM3:May 69:791:6554
  Dsc: Ake Holmberg, SM1:Jan 70:356:6989; Richard G. Pope, SM1:Jan 70:356:6989
  TR:136:792

Ho, Peter K.
Analysis and Design of Nuclear Power Plant Structures, with Milomir Stoykovich, SDNPF:Dec 73:365

Ho, Siew-Koon
See Richard Silvester, CE13:72:II-1347
See Richard Silvester, CE:Sept 74:66

Hoadley, Peter George
A Sabbatical Leave with a Consulting Firm, CEE:Feb 74:1-950
See Yau-Cheung Wong, EM4:Aug 71:1071:8281

Hoadley, Peter J.
Pile Stability, Part 1 -- Elastic Soil, GT74:June 74:225
Pile Stability, Part 2 -- Non-Elastic Soil, GT74:June 74:245

Hoban, John F.
Dsc, PP1:Jan 73:126:9460, of "The Civil Engineer in the Multidisciplinary Design Team", PP2:Apr 72:221:8826

Hobbs, Carl H., III
See Miles O. Hayes, 12CEC:71:1187

Hobbs, M. Floyd
See Mark D. Sobsey, EE3:June 73:245:9778

Hobson, Howard H.
See John F. Oyler, CEE:Feb 74:1-390

Hocking, J. Richard
See W. John Hossack, TE4:Nov 70:633:7648

Hodge, Philip G., Jr.
See Ted B. Belytschko, EM6:Dec 70:931:7746

Hodge, Raymond J.
Airports -- Challenges of the Future, ASC73:73, 213pp.
TR:139:255

Hodgins, Donald O.
Computer Studies of Estuary Water Quality, with Michael C. Quick, CE13:72:III-2317

Hoeg, Bent Hansen
Dsc, SM2:Mar 69:675:6429, of "Settlement of Strip Load On Elastic-Plastic Soil", SM2:Mar 68:431:5850

Hoeg, Kaare
Dynamic Strip Load On Elastic-Plastic Soil, with H. A. Balakrishna Rao, SM2:Mar 70:429:7138
TR:136:560
Finite Element Analysis of Strain-Softening Clay, SM1:Jan 72:43:8650
Dsc: Kwan Y. Lo and C. F. Lee, SM9:Sept 72:981:9158
Clo: SM12:Dec 73:1167:10184
TR:139:27
Probabilistic Analysis and Design of a Retained Wall, with Ramesh P. Murarka, GT3:Mar 74:349:10436
Settlement of Strip Load On Elastic-Plastic Soil, with John T. Christian and Robert V. Whitman, SM2:Mar 68:431:5850
Dsc: Bent Hansen Hoeg, SM2:Mar 69:675:6429; Bent Hansen, SM2:Mar 69:676:6429
Clo: SM6:Nov 69:1540:6894
TR:135:810
Stresses Against Underground Structural Cylinders, SM4:July 68:833:6022
Dsc: Israel Alterman, SM3:May 69:916:6525
Clo: SM1:Jan 70:299:6989
TR:135:189
See Joseph I. Folayan, SM4:July 70:1127:7390
See A. Stanley Lucks, TN: SM1:Jan 72:155:8618
See Thomas L. Holzer, TN: SM1:Jan 73:283:9505

Hoel, Lester A.
Analysis of Transportation Planning Education, TE2:May 70:123:7255
TR:136:1204
Bus Transit, CE:Mar 73:79
TR:139:146
Some Experience with Offering Professional Education in Urban Transportation, CEE:Feb 74:1-850
See Joseph S. Drake, TE3:Aug 70:379:7480
See Michael J. Demetsky, TE1:Feb 74:237:10319

Hoerauf, E. A.
See M. L. Schwartz, CE13:72:III-2503

Hoerner, Brent J.
Modal Interference in Vibration Tests, with Paul C. Jennings, EM4:Aug 69:827:6714
TR:135:993

Hoey, William F.
Dsc, CE:Jan 72:62, on Point Pleasant Bridge Collapse-Conclusions of the Federal Study, CE:July 71:41
Dsc, CE:Jan 72:62, on Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61
See Herbert S. Levinson, TE2:May 74:443:10558

Hoffman, David P.
See Robert E. Barry, PO1:June 72:117:8985

Hoffman, E. Kenneth
See Robert B. Conrad, EE3:June 74:549:10575

Hoffman, Edward J.
See John L. Cox, EE3:June 74:717:10579

Hoffman, Irving C.
See William A. Hunt, PL1:Oct 68:89:6179

Hoffman, John E.
See August C. Mueller, HYB:Aug 73:113

Hoffman, John F.
Selection of Disposal Areas for Spoil From Baltimore Harbor, 12CEC:71:2267
See Joseph R. Reynolds, Jr., WAVES:Sept 74:639

Hoffman, Phillip R.
Optimal Development of Multipurpose Hydro Projects, PO1:July 74:43:10655

Hoffman, Roger E.
See Lawrence H.N. Lee, CEO-II:70:579

Hoffmeister, John F., III
Optimizing the Supply of Inland Water Transport, with Richard de Neufville, WW3:Aug 73:293:9926
TR:139:374

Hofstra, Warren E.
See James E. Biesecker, HYB:Aug 73:417

Hogan, Brian R.
See James W. McPhillips, PP2:Apr 72:181:8797

Hogan, C. Michael
The Relationship Between Highway Planning and Urban Noise, with Gary L. Latshaw, UT73:May 73:109

Hogan, Michael
See Alan G. Davenport, ST6:June 71:1807:815

Hogarty, Richard A.
The Metropolis Runs Dry, SEA:70:329
The Metropolis Runs Dry, IR4:Dec 71:559:8563
TR:137:960

Hogg, Howard C.
Economics of a Water-Yield Function for Sugar Cane, with Jack R. Davidson and Jen-hu Chang, IR1:Mar 69:127:6448
TR:136:1078

Hognestad, Eivind
Dsc, ST12:Dec 70:2671:7714, of "Current European Views on Structural Safety", ST3:Mar 70:461:7132
See Ben C. Gerwick, Jr., CE:Aug 73:81

Hohman, Merrill S.
See John S. Farlow, CEO-II:70:1233

Holand, Ivar
Dsc, with Einar Munkeby, ST10:Oct 71:2607:8411, of "Analysis of Orthotropic Reinforced Concrete Structures", ST12:Dec 70:2607:7782

Holburt, Myron B.
Present and Future Salinity of Colorado River, with Vernon E. Valentine, HY3:Mar 72:503:8769
Dsc: Raymond A. Hill, HY3:Mar 73:536:9580
Clo: HY3:Mar 73:538:9580
TR:138:192
Dsc, IR1:Mar 72:167:8750, of "Satisfying Water Needs in Southern California", IR2:June 71:233:8193

Holden, William H.T.
See David R. Miller, TE1:Feb 74:179:10359

Holland, C.V. John
Dsc, CE:Sept 72:78, on Poor Structural Design Brings West Gate Bridge Failure, CE:June 72:47

Holland, Eugene P.
Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, TB:73:III-25-805

Holler, Albert G., Jr.
Dsc, SA4:Aug 72:678:9077, of "Aeration System for Large Navigable Rivers", SA6:Dec 71:883:8601

Holley, Edward R.
Dispersion in Homogeneous Estuary Flow, with Donald R.F. Harleman and Hugo B. Fischer, HY8:Aug 70:1691:7488
TR:136:1200
Field Tests on Transverse Mixing in Rivers, with Gerrit Abraham, HY12:Dec 73:2313:10241
TR:139:494
Surging in Laboratory Pipeline with Steady Inflow, HY3:May 69:961:6573
Dsc: Mohammad Hanif Chaudhry, HY1:Jan 70:294:6988; Mack H. Gray, III, HY1:Jan 70:296:6988
Clo: HY8:Aug 70:1720:7439
TR:135:101
Unified View of Diffusion and Dispersion, HY2:Mar 69:621:6462
TR:135:138
Dsc, IR3:Sept 68:346:6088, of "Falling Water Table Between Tile Drains", IR2:June 67:9:5258
Dsc, SA5:Oct 69:968:6802, of "Difference Modeling of Stream Pollution", SA5:Oct 68:995:6192
Dsc, HY6:June 72:1089:8925, of "Dispersion in Natural Streams", HY11:Nov 71:1867:8540
Dsc, PO1:July 74:133:10636, of "The Dissipation of Excess Heat from Water Systems", PO1:May 73:089:9702
See Thomas Micka, TN: EE6:Dec 73:971:10186
See Omar E. Rood, Jr., EE3:June 74:661:10585

Holley, Michel
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, TB:73:Ia-1-77

Holley, Myle J., Jr.
See Richard N. White, ST8:Aug 72:1835:9145

Hollingshead, Albert B.
Sediment Transport Measurements in Gravel River, HY11:Nov 71:1817:8521
Dsc: Frederick G. Charlton, HY8:Aug 72:1461:9076; Robert T. Milhous, HY11:Nov 72:2043:9305
Clo: HY5:May 73:843:9689
TR:138:47

Holloway, D. M.
See Chandrakant S. Desai, SM5:May 71:817:8083

Holloway, Frank M.
See Norman Ashford, TE3:Aug 72:715:9124
See Norman Ashford, TE4:Nov 72:799:9362

Holloway, Milton L.
Simulation Techniques for Water Project Analyses, with Lial F. Tischler, IR3:Sept 74:211:10784

Holly, Forrest M., Jr.
Model Study of Dense Jet in Flowing Fluid, with John L. Grace, Jr., HY11:Nov 72:1921:9365
Dsc: E. J. List and Albert B. Pincince, HY10:Oct 73:1888:10037
Clo: HY5:May 74:691:10505
TR:139:134

Holman, Kermit L.
See E. I. Onstott, EE6:Dec 73:897:10196

Holman, Robert E.
Nonstationary Response of Structural Systems, with Gary C. Hart, EM2:Apr 74:415:10502
Dsc: Ross B. Corotis, EM6:Dec 74:1272:10972; Loren D. Lutes, EM6:Dec 74:1273:10972

Holmberg, Ake
Dsc, ST12:Dec 69:3003:6932, of "Shear Strength of Reinforced Concrete Beams", ST6:June 69:1339:6636
Dsc, SM1:Jan 70:356:6989, of "Contact Pressure of a Rigid Circular Foundation", SM3:May 69:791:6554

Holmberg, Soren
See Ove Eide, PES:72:I-159

Holmes, Benjamin O.
Navigation Charting for Inland Waterways, SU1:Oct 69:117:6856
TR:136:1203

Holmes, Harlan B.
See Herbert S. Riesbol, PO1:Jan 71:93:7811

Holmes, Patrick
Dsc, WW1:Feb 69:117:6374, of "Laboratory Simulation of Sea Waves", WW2:May 68:159:5941

Holt, Charles F.
See James M. Robertson, TN: HY6:June 72:1095:8932

Holt, Edward C.
Minimum Weight Proportions for Steel Girders, with Gary L. Heithecker, ST10:Oct 69:2205:6838
Errata: ST8:Aug 70:1812:7442
TR:135:1059

Holt, Richard J.
See Robert V. Whitman, SM2:Mar 69:656:6429

Holtan, Heggie N.
See Louis M. Glymph, IR2:June 71:305:8174

Holthuijsen, L. H.
Stereophotography of the Sea Surface, An Experiment, with M. Tienstra and G. J. v.d. Vliet, WAVES:Sept 74:153

Holtz, Robert D.
Long-Term Loading Tests at Ska-Edeby, Sweden, with Bengt B. Broms, PES:72:I-435
Errata: PES:73:III-73

Properties of Slightly Organic Topsoils, with Raymond J. Krizek, CO1:June 70:29:7358
 TR:136:508
Soil Movements Below a Test Embankment, with Gote Lindskog, PES:72:I-273
 Clo: PES:73:III-71
Some Load Transfer Data on Caissons in Hard Chicago Clay, with Clyde N. Baker, Jr., PES:72:I-1223
Dsc, with Jan Wennerstrand, PES:73:III-59, of "Embankments on Soft Ground", PES:73:II-1

Holtz, Wesley G.
Dsc, with Harold J. Gibbs, SM3:May 69:900:6525, of "Settlement of Spread Footings on Sand", SM3: May 68:735:5959
See D. Earl Jones, Jr., CE:Aug 73:49

Holubec, Igor
Analyses and Performance of a Dike on Fibrous Peat, with Ronald E. Langston, PES:72:I-415
Elastic Behavior of Cohesionless Soil, SM6:Nov 68: 1215:6216
 Dsc: John G. Merkle and Douglas H. Merkle, SM5:Sept 69:1276:6754; Roger J. Evans and Max D. Coon, SM5:Sept 69:1281:6754
 Clo: SM2:Mar 70:763:7115
 TR:135:111

Holway, William N.
Summaries of Sessions, IMROD:Sept 73:273

Holzenbein, Helmut
See Stefan Soretz, TB:73:III-24-701

Holzer, Siegfried M.
Stability and Boundedness Via Liapunov's Direct Method, EM5:Oct 72:1273:9280
 TR:138:520
Stability of Columns Subject to Impulsive Loading, with Robert A. Eubanks, EM4:Aug 69:897:6734
 TR:135:1014
Stability of Columns With Transient Loads, EM6: Dec 70:913:7730
 TR:136:1306

Holzer, Thomas L.
Effect of Seismic Loading on Undrained Clay Creep, with Kaare Hoeg, TN: SM1:Jan 73:283:9505

Hom, Leonard W.
Kinetics of Chlorine Disinfection in an Ecosystem, NSCD:71:515
Kinetics of Chlorine Disinfection in an Ecosystem, SA1:Feb 72:183:8727
 Dsc: Malay Chaudhuri, SA6:Dec 72:1051:9393
 Clo: EE5:Oct 73:743:10035
 TR:139:147

Homburger, Wolfgang S.
Dsc, TE1:Feb 70:121:7048, of "Survey of Ground-Access Problems at Airports", TE1:Feb 69:115: 6415
Dsc, TE1:Feb 70:121:7048, of "An Uncommon View of the Ground Transportation Problem", TE1:Feb 69:143:6417
Dsc, TE1:Feb 70:121:7048, of "Balanced Highway-Airport Design", TE1:Feb 69:213:6420

Hong, H.
Kneading Compaction of Asphalt Beam Specimens, HW2:Nov 68:179:6231
 TR:135:474

Hood, Clifford C.
Flood Channel Doubles as Golf Course, CE:May 72: 49
 Dsc: Nirmalendu Maitra, CE:Sept 72:61
 TR:138:238

Hooke, Roger
Post-Elastic Deflection of Plates, ST4:Apr 70:757: 7206
 TR:136:904

Hooke, Roger LeB.
Dsc, HY4:Apr 70:1073:7189, of "Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: A. Fluvial Sediment, Task Committee on Preparation of the Sedimentation Manual", HY5:Sept 69:1477:6756

Hooper, Ira
Commentary on Structural Standards, Summary Report, TB:73:II-13-147

Hoopes, John A.
See Robert W. Zeller, HY9:Sept 71:1403:8385
See Walter C. Mih, HY7:July 72:1275:9050

Hoover, Thomas E.
Computer Simulation of Subway Environment, with Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1:Feb 73:53:9518
 Dsc: George R. Beetle, Thomas B. Furmaniak and Ghebreiesus Yiesghen, TE4:Nov 73:966:10110
 Clo: TE3:Aug 74:783:10698
 TR:139:138

Hopfinger, E. J.
Development of a Stratified Turbulent Shear Flow, ISSF:Aug 72:555

Hopkins, H. J.
Dsc, EI3:July 74:254:10633, of "Ellet's Contribution to the Development of Suspension Bridges", PP3: July 73:331:9872

Hoppe, David L.
See Raymond G. Jacquot, TN: EM3:June 73:612: 9765

Hoppenfeld, Morton
The City is the People--So is the Planning/Building Process, ABS:71:91

Hopson, Ninnian E.
See Ching-San Huang, EE2:Apr 74:409:10462

Horiguchi, Tsutomu
See Toru Yoshii, CEO-II:70:1045

Horikawa, Kiyoshi
Field Observations of Nearshore Current System, with Tamio Sasaki, CE13:72:I-635
Turbulence and Sediment Concentration due to Waves, with Akira Watanabe, 12CEC:71:751

Horinek, Ernest E.
Electronic Data Processes in Highway Operations, CE:Feb 69:46
 TR:135:141

Horn, Merlin E.
Estimating Soil Permeability Rates, IR2:June 71:263: 8169
 Clo: ST1:Jan 73:201:9462
 TR:137:978

Hornberger, George M.
Dsc, with Irwin Remson, HY3:Mar 72:579:8749, of "Unsteady Free Surface Ground Water Seepage", HY8:Aug 71:1213:8337

Horne, M. R.
Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, TB:73:II-15-311

Horonjeff, Robert
Projections of the U.S. Airline Fleet in the Early 1980's, with Richard Coykendall, ASC73:Mar 73:1

Horowitz, George F.
Design of Combined Service and Auxiliary Spillway at Auld Valley Reservoir, with Daumantas Namikas, HY10:Oct 70:1965:7615
 Errata: HY9:Sept 71:1529:8345
 TR:136:1126

Effects of Mechanical Cleaning Operations on Flow In Large Conduits, with Nelson N. Lee, HY5:May 71:677:8110
Dsc: Herman J. Koloseus, HY12:Dec 71:2110:8552
Clo: HY7:July 72:1331:9000
TR:137:689

Horton, Frank E.
Behavioral Models in Transportation Planning, TE2:May 72:411:8908
TR:138:234

Horvat, Endre
Effects of Foundations on Adjacent Structures, State-of-Art Report 3, with Cornelius van der Veen, TB:73:Ia-11-905
See Alphonsus I. M. Claessen, GT8:Aug 74:925:10764

Hoshiya, Masaru
Free Vibration of Stochastic Beam-Column, with Haresh C. Shah, EM4:Aug 71:1239:8331
TR:137:758
Reliability of Redundant Cable System, TN: ST11:Nov 71:2773:8490

Hoskins, E. R.
Development of Deep Hole Stress Measurement Device, with E. H. Oshier, RM14:73:299
See J. E. Russel, RM14:73:1

Hossack, W. John
Transportation in Regional Plan for 1970's, with J. Richard Hocking, TE4:Nov 70:633:7648
TR:137:96

Hotes, Frederick L.
Dsc, HY2:Mar 69:762:6433, of "Economic Planning for Staged Development", HY5:Sept 68:1231:6114
Dsc, IR1:Mar 69:218:6428, of "Analysis of Sprinkler Irrigation Losses", IR4:Dec 67:111:5672
Dsc, PP1:Sept 70:156:7549, of "Foreign Service", PP1:July 69:79:6703
Dsc, IR3:Sept 71:541:8346, of "High Plains Irrigation and Texas Water Plan", IR1:Mar 71:123:7960
Dsc, IR4:Dec 71:648:8553, of "Safe Yield of Aquifers: An Economic Reformulation", IR4:Dec 70:377:7719
Dsc, HY10:Oct 72:1889:9222, of "Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations", HY2:Feb 72:335:8729
Dsc, IR3:Sept 74:394:10771, of "Irrigation Canal System Capacity Design Criteria", IR3:Sept 73:227:9973

Hou, Michael C.Y.
Aerotriangulation Precision Attainable for Highway Photogrammetry, SU1:May 74:7:10527

Houghton, Donald L.
Concrete Strain Capacity Tests -- Their Economic Implications, ECCD:72:75
Concrete Volume Change for Dworshak Dam, PO2:Oct 69:153:6825
Dsc: Karoly Szepesi and Zoltab Szilvassy, PO1:Jan 71:227:7784
Clo: PO3:July 71:710:8256
TR:136:695

Houk, Ivan Edgar
Memoir of, TR:138:628

Houlsby, Adam Clive
Dsc, SM1:Jan 69:416:6324, of "Rock Fracture Spacings, Openings, and Porosities", SM1:Jan 68:73:5736
Dsc, SM1:Jan 69:428:6324, of "Strengthening Rock by Injection of Chemical Grout", SM1:Jan 68:159:5744

Hoult, David P.
See Ralph H. Cross, III, 12CEC:71:1745
See Richard Robbins, TN: WW1:Feb 71:235:7891
See Ralph H. Cross, III, WW2:May 71:313:8122
See Ralph H. Cross, III, WW1:Feb 72:25:8719

Houmb, O. G.
Norwegian Wave Climate Study, with B. Pedersen and P. Steinbakke, WAVES:Sept 74:25

Householder, Michael K.
Turbulent Diffusion and Schmidt Number of Particles, with Victor W. Goldschmidt, EM6:Dec 69:1345:6961
Errata: EM1:Feb 71:132:7862
TR:136:403
Dsc, HY5:May 70:1227:7248, of "Fortran-Hydro", HY6:Nov 69:1993:6901

Housley, John G.
See Paul C. Liu, WW4:Nov 68:529:6204

Housner, George W.
Earthquake Ground Motion, State-of-Art Report I, TB:73:Ib-6-159
Earthquake Research Needs For Nuclear Power Plants, PO1:Jan 71:77:7818
Dsc: Melvin W. Jackson, PO3:July 71:722:8256
Clo: PO1:June 72:167:8927
TR:137:456
Dsc, with Alberto Castellani, SM1:Jan 69:360:6324, of "Comparison of Footing Vibration Tests with Theory", SM6:Nov 67:143:5568
Dsc, with Paul C. Jennings, CE:Feb 72:72, on Cables Support Office Building, CE:Oct 71:64
See Kenneth L. Heitner, WW3:Aug 70:701:7491

Houston, James T.
Field Quality Control Test for Wetting Brick in Masonry Construction, with Clayford T. Grimm, CO1:July 73:5:9839
Dsc: Russell H. Brown and John C. Grogan, CO2:June 74:189:10563
TR:139:456

Houston, William N.
Property Interrelationships in Sensitive Clays, with James K. Mitchell, SM4:July 69:1037:6666
Dsc: Dalim K. Majumdar, SM1:Jan 70:368:6989; Dwight A. Sangrey, SM3:May 70:1067:7249; N. Babu Shanker, SM3:May 70:1070:7249
Clo: SM1:Jan 71:241:7785
TR:136:166
See James K. Mitchell, SM3:May 69:845:6568

Hovland, H. John
Dsc, SM8:Aug 72:832:9078, of "Stress Field Under Slipping Rigid Wheel", SM1:Jan 72:13:8625

Howard, Bernard E.
Optimum Curvature Principle in Highway Routing, with Z. Bramnick and Jocelyn F.B. Shaw, HW1:June 68:61:5987
TR:135:826

Howard, Charles D. D.
Sensitivity Analysis of Wind Generated Wave Predictions, WW2:May 71:365:8153
Dsc: Subrata K. Chakrabarti and Peter H. Feldhausen, WW1:Feb 72:136:8686
TR:137:971
See Uri Shamir, HY1:Jan 68:219:5758

Howe, H. Edward
Portage Mountain Intake Structure and Facilities, PO3:June 70:331:7342
TR:136:1048

Howe, Robert T.
Coordinates Versus Confusion, SU2:Sept 70:191:7528
Dsc: Richard J. Mitchell, SU1:May 71:143:8085; Gerard H. Pesman, SU2:Nov 71:337:8487; John G. McEntyre, SU2:Nov 71:338:8487; William T. Wambach, Jr., SU2:Nov 71:339:8487
Clo: SU1:July 72:121:9004
TR:137:692

How Land Surveying Is Being Modernized, SU1:July 72:17:9049
  TR:138:287
Monuments vs. Plane Coordinates, CE:Dec 69:56
  Dsc: Robert W. Jennings, CE:June 70:43; Gurdon H. Wattles, CE:June 70:43; George M. Mayfield, CE:Sept 70:53
Plan for Financing Urban Mass Transit Systems, TE2:May 70:219:7286
  TR:136:852

Howe, W. Charles
Policies for Efficient Regional Water Management, with Blair T. Bower, IR4:Dec 70:387:7721
  TR:137:853

Howell, David T.
See Warren A. Hall, IR4:Dec 70:395:7718

Howell, Richard B.
Awards Given At California AMF Conference, with Allen W. Hatheway, CE:Apr 73:93

Howell, Terry A.
Designing Trickle Irrigation Laterals for Uniformity, with Edward A. Hiler, IR4:Dec 74:443:10983
See Edward A. Hiler, OIDS:72:579

Howells, David A.
Dsc, ST4:Apr 72:944:8802, of "Earthquake Design Formula Considering Local Soil Conditions", ST9: Sept 71:2383:8399
Dsc, CO1:July 73:216:9822, of "Vehicular Tunnels in Rock - Direction for Development", CO2:Sept 72: 235:9173
Dsc, SM10:Oct 73:899:10038, of "Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle", SM1:Jan 73:111:9511
Dsc, GT1:Jan 74:83:10250, of "Model Studies on Mechanics of Jointed Rock", SM3:Mar 73:229: 9610

Howells, David H.
Trends in Financial Support for Water Pollution Control, SA3:June 67:1:5271
  TR:135:357
See R. O. Sylvester, CE:Apr 71:41

Howland, Warren E.
Dsc, CE:Sept 71:93, on ASCE and Social Issues, CE: May 71:58

Hrennikoff, Alexander
Three-Dimensional Bar Cell for Elastic Stress Analysis, with A. Gantayat, EM3:June 70:313:7352
  Dsc: Krishna M. Agrawal, EM5:Oct 70:792:7574
  Clo: EM3:June 71:1021:8154
  TR:136:914
Dsc, with A. Gantayat, EM4:Aug 68:998:6055, of "Space-Framework Method for Three Dimensional Solids", EM6:Dec 67:21:5633
Dsc, ST10:Oct 69:2323:6803, of "New Rectangular Finite Element for Shear Wall Analysis", ST3:Mar 69:399:6464
Dsc, ST12:Dec 69:3001:6932, of "Stability Behavior Illustrated by Simple Models", ST6:June 69:1153: 6598
Dsc, ST8:Aug 72:1877:9079, of "Analysis of Curved Folded Plate Structures", ST10:Oct 71:2459:8434

Hribar, John A.
Lateral Stability of Welded Light Trusses, with William P. Laughlin, ST3:Mar 68:809:5873
  Dsc: William A. Andrews, ST1:Jan 69:130:6325; David D. Roach, ST:Jan 69:131:6325; Anatol A. Eremin, ST3:Mar 69:486:6430
  TR:135:483

Hsia, Anthony
See Robert L. Stoy, HY9:Sept 73:1585:9999

Hsiao, George Chia-Chu
See Mehmet Aziz Tayfun, CE13:72:I-251
See Mehmet Aziz Tayfun, WAVES:Sept 74:125
See Cheng Y. Yang, WAVES:Sept 74:352

Hsiegh, T. K.
Dsc, BMS:71:145, of "Full Scale Observation of the Behavior of Moored Ships", BMS:71:117
Dsc, BMS:71:265, of "Design Criteria for Fenders and Berthing Structures", BMS:71:256

Hsieh, George C.C.
See Harvey W. Duff, HY7:July 70:1629:7384
See Harvey W. Duff, SA4:Aug 70:1012:7441
See Harvey W. Duff, UP2:Oct 70:167:7571

Hsieh, Jeffrey S.
Batch Adsorption Kinetics in Sewage--Activated Carbon, with Raffi M. Turian and Chi Tien, SA4: Aug 71:505:8339
  Dsc: Vernon L. Snoeyink and Richard I. Dick, SA2:Apr 72:464:8800
  Clo: SA6:Dec 72:1043:9393
  TR:137:1015

Hsieh, Tsuying
See Shi-I Pai, ISSF:Aug 72:641

Hsiung, Kou-ying
Determining Specific Deposit by Backwash Technique, EE2:Apr 74:353:10449
  Dsc: Kenneth J. Ives, EE6:Dec 74:1297:10971
Filtrability Study on Secondary Effluent Filtration, SA3:June 72:505:8965
  Dsc: Gerald W. Foess, EE1:Feb 73:104:9521; Ali R. Javaheri, EE1:Feb 73:106:9521; Arun K. Deb, EE2:Apr 73:159:9635
  Clo: EE1:Feb 74:218:10302
  TR:139:288
Prediction of Filter Performance, with John L. Cleasby, SA6:Dec 68:1043:6270
  Dsc: Kuan M. Yao, SA5:Oct 69:973:6802
  TR:135:790
Dsc, EE3:June 74:775:10564, of "Tracer Dispersion of High Rate Settling Tanks", EE3:June 73:347: 9820
See Gordon L. Culp, SA5:Oct 69:829:6823

Hsu, Cheng-Tzu
Structural Concrete-Biaxial Bending and Compression, with M. Saeed Mirza, TN: ST2:Feb 73:285:9545
Dsc, with M. Saeed Mirza, ST4:Apr 72:937:8802, of "Flexural Members with Confined Concrete", ST7: July 71:1969:8243

Hsu, En Yun
See Konstantin Zagustin, WW4:Nov 68:397:6210

Hsu, Huai-Yun
Multiple Use of Irrigation Systems in East Pakistan, with Harvey G. Hewitt, OIDS:72:115

Hsu, S. A.
Wind Stress on a Coastal Water Surface, CE13:72: III-2531

Hsu, Sheng-Tien
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, with Rex A. Elder, HYB:Aug 73:177
Dsc, HY9:Sept 74:1281:10770, of "Energy Losses at 90° Pipe Junctions", HY9:Sept 73:1353:10022
See John F. Kennedy, HY4:Apr 73:605:9664

Hsu, Shih-Ang
The Shear Stress of Sea Breeze on a Swash Zone, 12CEC:71:243

Hsu, Sue-Whei
Dsc, HY3:May 69:1089:6524, of "Economic Planning for Staged Development", HY5:Sept 68:1231:6114

Hsu, T. M.
Dsc, ST7:July 70:1604:7386, of " Buckling of Anisotropic Composite Plates", ST10:Oct 69:2119: 6799

Hsu, Thomas T.C.
Design of Reinforced Concrete Spandrel Beams, with Kenneth T. Burton, ST1:Jan 74:209:10277

Hsu, Yu-Chih
See Cornelius W. Kruse, NSCD:71:113

Hsu, Yu-wen
Elastic Buckling of Two Component Columns, EM3: June 69:611:6612
  Dsc: Roshdy S. Barsoum, EM2:Apr 70:174:7188
  Clo: EM6:Dec 70:1271:7710
  TR:136:155

Hsueh, Pan San
Buckling of Axially Loaded Cylindrical Panels, with Alexander Chajes, EM3:June 71:919:8210
  TR:137:863

Hsueh, Te-ming
Dynamic Response of Airplanes in Ground Operation, with Joseph Penzien, TE3:Aug 74:743: 10755

Hu, George C. Y.
Dsc, SM5:Sept 68:1194:6089, of "Applications of Limit Plasticity in Soil Mechanics", SM5:Sept 67: 101:5424
Dsc, SM6:Nov 70:2151:7643, of "Bearing Capacity of Foundation on Sand", SM2:Mar 70:545:7158

Hu, Richard E-Wei
See Awtar Singh, CE:Aug 71:52

Hu, Walter W.
Hydraulic Elements for USBR Standard Horseshoe Tunnel, TN: TE4:Nov 73:973:10117
Hydraulics of Spatially Varied Pipe Flow, HY6:Nov 67:281:5599
  Dsc: Fred W. Blaisdell, Philip W. Manson and Kesavarao Yalamanchili, HY4:July 68:1168: 6015; Chian Min Wu, HY6:Nov 68:1568:6200
  Clo: HY3:Mar 70:837:7113
  TR:135:437

Hu, William C. L.
See John F. Gormley, EM3:June 69:545:6606

Huang, Ching-San
Nitrification Rate in Biological Processes, with Ninnian E. Hopson, EE2:Apr 74:409:10462

Huang, Jerry Y. C.
Least Cost Sand Design for Iron Removal, with E. Robert Baumann, SA2:Apr 71:171:8060
  Dsc: Ernest F. Young, SA5:Oct 71:798:8409; Arun K. Deb, SA6:Dec 71:949:8555
  Clo: SA4:Apr 72:658:9077
  TR:137:894
Dsc, with E. Robert Baumann, SA6:Dec 70:1460: 7713, of "Theoretical Evaluation of Filter Modeling Experiments", SA2:Apr 70:455:7233

Huang, Ju-Chang
Adsorption of Pesticides by Clay Minerals, with Cheng-Sun Liao, SA5:Oct 70:1057:7603
  Dsc: Joseph L. Pavoni and D. Joseph Hagerty, SA2:Apr 71:243:8013; George W. Bailey, SA4: Aug 71:533:8269
  Clo: SA2:Apr 72:438:8800
  TR:137:493
Treatment of Refinery Waste by Physicochemical Processes, with Michael G. Hardie, SA4:Aug 71: 467:8318
  Dsc: Alonzo W. Lawrence, SA3:June 72:600:8928
  Clo: SA6:Dec 72:1042:9393
  TR:138:14

Huang, Lin Y.
Detroit Metropolitan Wayne County Airport, CE: July 70:55
  TR:136:533
Temperature Loads, State-of-Art Report 6, TB:73:Ib-5-97

Huang, Norden E.
See Chi C. Tung, WW3:Aug 73:341:9931
See Chi C. Tung, WW4:Nov 74:267:10922

Huang, Rodney J.
See Fujiya Komamura, GT7:July 74:807:10675

Huang, Ti
Dsc, ST2:Feb 71:734:7867, of "Analysis of Footing Subjected to Biaxial Bendine", ST6:June 70:1049: 7329
Dsc, ST2:Feb 72:540:8684, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71: 2203:8353
See Andrie C.T. Chen, ST11:Nov 71:2763:8485

Huang, Tseng
Buckling Frequencies of Long Vertical Pipes, with D. W. Dareing, EM1:Feb 69:167:6400
  TR:135:187
See Anestis S. Veletsos, EM5:Oct 70:593:7591

Huang, Yang H.
Analysis of Symmetrically Loaded Slab on Elastic Solid, TN: TE2:May 74:537:10511
Computer Analysis of Flow toward Artesian Wells, TN: HY9:Sept 71:1579:8349
Consolidation-Time Relationship for Layered Clays, TN: SM1:Jan 70:371:7022
Critical Tensile Strain in Asphalt Pavements, TE3: Aug 73:553:9925
  TR:139:387
Finite Element Analysis of Flow Toward Artesian Well, TN: HY11:Nov 72:2055:9311
Finite Element Analysis of Slabs on Elastic Solids, TE2:May 74:403:10535
Stresses and Displacements in Nonlinear Soil Media, SM1:Jan 68:1:5714
  Dsc: Charles M. Gerrard and Jack R. Morgan, SM5:Jan 69:398:6754
  Clo: SM5:Sept 69:1267:6754
  TR:135:541
Dsc, TE1:Feb 73:185:9526, of "Advanced Analysis of Rigid Pavements", TE1:Feb 72:37:8699

Hubbell, David W.
See Herbert H. Stevens, Jr., HYB:Aug 73:279

Hubbell, James W.
New Wastewater Treatment Plant Reuses Its Oil Sludge, CE:Sept 70:81
  TR:136:769

Huber, Wayne C.
Temperature Prediction in Stratified Reservoirs, with Donald R.F. Harleman and Patrick J. Ryan, HY4: Apr 72:645:8839
  Dsc: Yu-Leuk Choi, HY3:Mar 73:544:9580
  Clo: HY11:Nov 73:2127:10109
  TR:139:45

Huck, Peter J.
Measurement of InSitu Stress in Soils, with Madan M. Singh, EFSE:Aug 74:269
See Delon Hampton, SM4:July 70:1391:7434
See Madan M. Singh, RM14:73:35

Huck, Peter M.
Water Quality Models Using the Box-Jenkins Method, with Grahame J. Farquhar, EE3:June 74: 733:10629

Huck, Robert W.
See James Allen, CE:Apr 72:77

Hucks, Robert T., Jr.
Design of PVC Water-Distribution Pipe, CE:June 72: 70
  Dsc: Robert E. Morris, Jr., CE:Dec 72:39; K. A. Ramsay, CE:Mar 73:51
  TR:138:298

Huddleston, John V.
A Numerical Technique for Elastica Problems, EM5:Oct 68:1159:6182
Dsc: Gerald Zamost, EM3:June 69:795:6580; Michael D. Callan, EM3:June 69:797:6580; Robert Schmidt, EM4:Aug 69:1016:6705; Anand S. Aggarwal, EM4:Aug 69:1017:6705
Clo: EM2:Apr 70:163:7188
TR:136:654

Hudlow, Michael D.
Hydrograph Synthesis by Digital Computer, with Robert A. Clark, HY3:May 69:839:6555
TR:135:103

Hudoba, John
See Robert M. Korol, ST5:May 72:1007:8872

Hudson, James F.
Dsc, with David H. Marks, EE3:June 74:784:10564, of "Cost-Effectiveness Analysis of Disposal Systems", EE5:Oct 73:577:10104
See Louis A. Fuertes, UP2:Nov 74:155:10913
See Donald Grossman, EE6:Dec 74:1219:11022

Hudson, James W.
Dsc, Automobile Exhaust Pollutants, CE:Nov 70:36
Dsc: Daniel H. Brown, CE:Mar 71:52

Hudson, John A.
Shape of the Complete Stress-Strain Curve for Rock, with Edwin T. Brown and Charles Fairhurst, RM13:72:773
Studying Time-Dependent Effects in Failed Rock, with Edwin T. Brown, RM14:73:25
See Edwin T. Brown, EM5:Oct 72:1310:9221

Hudson, William D.
Computerizing Pipeline Design, TE1:Feb 73:73:9547
TR:139:167
A Modern Metropolis Looks Ahead, TE4:Nov 74:801:10918

Hudson, William Ronald
Discrete-Element Analysis for Discontinuous Plates, with Hudson Matlock, ST10:Oct 68:2257:6157
Dsc: P. Paramasivam and Jawalker K. SridharRao, ST9:Sept 69:1981:6755
Clo: ST4:Apr 70:841:7191
TR:135:754
Factors Affecting Performance of Pavement Systems, with B. Frank McCullough and Fred N. Finn, TE3:Aug 69:505:6740
TR:135:1024
Parameters of Rational Airfield Pavement Design System, with Thomas W. Kennedy, TE2:May 73:235:9722
Errata: TE2:May 74:528:10508
TR:139:250
Problems of Designing Roadway Structures, TE2:May 69:289:6542
TR:135:105
A Systems Analysis Method For Pavement Structures, with B. Frank McCullough and Frank H. Scrivner, EC5:70:95
Systems Analysis Method for Pavement Structures, with B. Frank McCullough, Frank H. Scrivner and Gary Carey, ST1:Jan 71:81:7852
TR:137:350
See Sohan L. Agarwal, TN: ST8:Aug 71:2159:8275
See Harvey J. Treybig, TE4:Nov 71:681:8543
See C. Michael Walton, CEE:Feb 74:1-200

Huff, Lewis L.
See Warren M. Hagist, HY1:Jan 70:299:6988

Huffman, Donald D.
See Michael C. Mulbarger, SA4:Aug 70:861:7447

Huffman, H. M., Jr.
Bikeway Planning and Design, BP73:Dec 73:655

Hufschmidt, Maynard M.
Environmental Aspects of River Basin Planning, HY6:Nov 67:323:5605
Dsc: William Whipple, Jr., HY3:May 68:837:5920; Asit K. Biswas, HY6:Nov 68:1573:6200
Clo: HY2:Feb 70:575:7045
TR:135:444

Huggett, Jack W.E.
See Angus J. McKenzie, TE4:Nov 74:855:10920

Huggins, Alan F.
River Regulation as Influence on Peak Discharge, with Martin R. Griek, HY7:July 74:901:10671

Huggins, Mark W.
See Robert G. Drysdale, ST5:May 71:1423:8103
See Akhilesh C. Agarwal, ST4:Apr 73:655:9653

Hughes, Barry P.
Temperature Rises in Low-Heat Cement Concrete, ST12:Dec 71:2807:8588
Dsc: Jerome M. Raphael, ST8:Aug 72:1881:9079
Clo: ST3:Mar 73:576:9583
TR:138:43

Hughes, George M.
Scientific and Administrative Criteria for Shallow Waste Disposal, with Keros Cartwright, CE:Mar 72:70
TR:138:153

Hughes, John M.O.
See C. Peter Wroth, EFSE:Aug 74:295

Hughes, Ralph C.
See William R. DeKeyser, CE:Mar 74:64

Hughes, Trevor C.
Municipal Water Planning--Mixed Integer Approach, with Calvin G. Clyde, HY11:Nov 73:2079:10131
TR:139:438

Hughes, William C.
Estimation of Phreatophyte Water Use, IRS:Sept 72:191
Flood Control Release Optimization Using Methods from Calculus, HY5:May 71:691:8117
Dsc: Stephen J. Burges, HY10:Oct 71:1795:8407; A. H. Blyskowski, HY1:Jan 72:296:8620
Clo: HY7:July 72:1333:9000
TR:137:698
Simulation of Salt Cedar Evapotranspiration, IR4:Dec 72:533:9415
TR:138:570
Dsc, HY4:Apr 70:1102:7189, of "Computers in Flood Control Planning", HY6:Nov 69:1859:6886
See Philip D. Roos, TE3:Aug 69:581:6708

Huizer, Arie
Dsc, ST7:July 74:1530:10637, of "Sustained and Fluctuating Loading on Bolted Joints", ST10:Oct 73:2123:10055

Hulett, Harold P.
Transthetics, PO1:June 72:103:8989
TR:138:313

Hulman, Lewis G.
Delaware River Basin Modeling, with David K. Ericson, HY1:Jan 72:105:8668
TR:138:132
Dsc, WW2:May 70:577:7252, of "Damage Function of Rubble-Mound Breakwaters", WW3:Aug 69:345:6743
Dsc, HY1:Jan 74:250:10251, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571
See Augustine J. Fredrich, HY3:May 69:1087:6524

Hulsbos, Cornie L.
See John M. Hanson, ST11:Nov 70:2443:7705

Hulshizer, Allen J.
Allowable Bending Stress Design Aid, CE:Feb 70:63
TR:136:97

Hultin, Carl E.
Philadelphia-Lindenwold High-Speed Line Surveys, SU1:May 71:7:8096
TR:137:153

Hultman, Bengt G.
Dsc, EE4:Aug 73:559:9893, of "Process Kinetics for Denitrification", SA4:Aug 72:623:9153

Hume, B. Norman
Water Quality Control in California, SA4:Aug 70: 873:7448
Dsc: Thomas E. Bailey, SA3:June 71:380:8157
Clo: SA6:Dec 71:936:8555
TR:137:120

Humenick, Michael J., Jr.
Improving Mercury (II) Removal by Activated carbon, with Jerald L. Schnoor, EE6:Dec 74:1249: 11032

Humpherys, Allan S.
Mechanical Structures for Farm Irrigation, IR4:Dec 69:463:6944
Dsc: E. P. Robinson, IR3:Sept 70:360:7498
Errata: IR3:Sept 70:363:7498
Clo: IR2:June 71:322:8156
TR:136:102

Humpheson, C.
See Roland W. Lewis, SM8:Aug 73:603:9912

Humphrey, Thomas F.
Reappraising Metropolitan Transportation Needs, TE2:May 74:353:10532

Humphries, Jimmie W.
Dsc, Buffalo Creek Dam, CE:Feb 74:107

Humphries, Richard W.
See Janusz R. Rydzewski, PO1:May 73:165:9710

Hung, Cheng-Yeng
Dsc, HY11:Nov 71:1918:8483, of "Computer Simulation Of Urban Storm Water Runoff", HY2: Feb 71:289:7924

Hung, David S.
Memoir of, TR:135:1129

Hung, Tin-Kan
Spiral Flows in Finite Rotating Annular Tubes, EM1: Feb 73:13:9533
TR:139:200
See Arthur A. Giaquinta, EM6:Dec 68:1521:6319

Huning, Richard C.
Dsc, HY9:Sept 70:1915:7497, of "Survey of Programs for Water-Surface Profiles", HY2:Feb 70: 547:7098
Dsc, CE:Apr 72:59, on Anti-Technology--The New Myth, CE:Jan 72:68
See Van A. Silver, TN: SM2:Mar 70:789:7117

Hunt, Bruce W.
Dispersion From Pit in Uniform Seepage, HY1:Jan 73:13:9474
Dsc: Eric. J. Wolanski, HY7:July 73:1198:9823
Clo: HY2:Feb 74:321:10305
TR:139:173
Dispersion in Nonuniform Seepage, HY2:Feb 73:293: 9553
TR:139:207
Exact Flow Rates from Dupuit's Approximation, HY3:Mar 70:633:7140
TR:136:613
Flow Rates in Two-Dimensional, Unsteady, Confined Groundwater Flow, HY2:Mar 69:603:6451
Dsc: C. J. Garrison, HY1:Jan 70:286:6988
Errata: HY3:Mar 70:844:7113
Clo: HY7:Apr 70:1611:7384
TR:135:141
Radial Dispersion in Ground-Water Flow, EM6:Dec 74:1117:10998
Seepage from Shallow Open Channel, HY5:May 72: 779:8875
TR:138:252
Seepage From Shallow Reservoir, HY1:Jan 73:23: 9476
TR:139:176
Steady Seepage Toward Circle of Finite Radius, TN: EM2:Apr 71:599:8017
Unsteady Seepage Toward Narrow Ditch, HY10:Oct 70:1953:7586
Errata: HY9:Sept 71:1529:8345
TR:136:1152
Unsteady Seepage Toward Sink Beneath Free Surface, HY4:Apr 70:859:7202
TR:136:686
Vertical Recharge of Unconfined Aquifer, HY7:July 71:1017:8257
Dsc: Ahmed El Nimr, HY2:Feb 72:402:8681
Clo: HY9:Sept 72:1719:9156
TR:137:744
Dsc, HY3:May 68:833:5920, of "Steady and Unsteady Flow Towards Gravity Wells", HY6:Nov 67:135:5581
Dsc, HY:Jan 69:570:6323, of " Nonlinear Flow Through Granular Media", HY3:July 68:851:6018
Dsc, EM1:Feb 70:104:7044, of "Cross-Velocity Behavior in Parallel Channel Flow", EM4:Aug 69: 921:6736
Dsc, HY7:July 70:1663:7384, of "Nonsteady Flow to Surface Reservoir", HY3:Mar 70:609:7137
Dsc, IR3:Sept 71:542:8346, of "Rational Design of Wall Screens", IR1:Mar 71:131:7969
Dsc, EM5:Oct 73:1101:10041, of "Impulsive Hydrodynamics of Submerged Rigid Bodies", EM1: Feb 73:99:9563

Hunt, Hal W.
Forty Years of Engineered Construction, CE:Oct 70: 57
TR:136:955

Hunt, R. Joe
Structure-Foundation Interaction of Nuclear Power Plant Structure During Earthquakes, SDNPF:Dec 73:119

Hunt, William A.
Hydraulic Engineering and the Environment, HYB: 74, 466pp.
TR:139:493
The Making of a Professional Engineer - A Teamwork Approach (Discussion), with Leland J. Walker, CEE:Feb 74:2-322
Optimization of Pipelines Transporting Solids, with Irving C. Hoffman, PL1:Oct 68:89:6179
Dsc: David H. Marks and Jon C. Liebman, TE3: Aug 69:584:6708
Clo: TE2:May 70:242:7251
TR:135:825

Hunter, Alfred H.
See Charles I. Mansur, SM5:Sept 70:1545:7509
See Henry M. Reitz, GT10:Oct 74:1165:10838

Hunter, E. Kent
See John B. Ciani, SU2:Nov 71:149:8496

Hunter, J. V.
See T. Helfgott, SA3:June 70:779:7374

Hunter, William G.
See Paul M. Berthouex, SA3:June 71:333:8202
See Paul M. Berthouex, SA4:Aug 71:393:8286

Hunter, William W.
See Clinton L. Heimbach, TE4:Nov 74:889:10921

Huntington, Stephen W.
See Charles K. Haswell, PO2:Oct 72:201:9297

Huntzinger, Thomas L.
Managing Canal System for Water Quality Control, with James H. Taylor, IRS:Sept 72:171

Hurd, M. K.
Dsc, CO2:Oct 68:253:6131, of "Wood Design Criteria for Concrete Formwork", CO2:Sept 67:13:5432

Hurley, E. E. Mac
Memoir of, TR:138:629

Hurley, Patrick A.
Augmenting Colorado River by Weather Modification, IR4:Dec 68:363:6271
  TR:135:708
Colorado Pilot Project: Design Hydrometeorology, HY5:May 72:811:8901
  TR:138:291
Predicting Return Flows From Irrigation, IR1:Mar 68:41:5838
  Dsc: William Wen-Gong Yeh and Harry F. Blaney, IR1:Mar 69:237:6428
  Errata: UP1:Apr 69:6487
  Clo: IR4:Dec 69:589:6930
  TR:135:435
Status of Bureau of Reclamation Efforts in Weather Modification, Evaporation Suppression, and Water Salvage, IAWM:72:43

Hurst, Michael D.
Four Win ASCE Zone Scholarships: Hurst, CE:Sept 73:112

Hurty, Walter C.
See Stephen E. Johnson, EM5:Oct 72:1105:9281

Hurwitz, Raphael
Dsc, SA5:Oct 72:793:9225, of "Systems Analysis of Water Distribution Networks", SA6:Dec 71:825:8575

Husain, Syed I.
Dsc, with Phil M. Ferguson, ST12:Dec 73:2495:10185, of "Cracking and Bond Slip in Concrete Beams", ST12:Dec 72:2663:9423

Huseyir, Koncay
See Raymond H. Plaut, EM1:Feb 72:278:8680

Husid, Raul
See Paul C. Jennings, EM5:Oct 68:1045:6154

Hussain, Altaf
Engineering Services for Construction, CO3:Sept 74:273:10787
Excelling as a Construction Contractor, CO4:Dec 74:621:11029
Dsc, CO2:June 74:192:10563, of "Basic Construction Principles in Higher Latitudes", CO1:Mar 74:33:10399

Hussain, Mushtaq
Dsc, SU1:July 72:123:9004, of "Solar Astronavigation in High Latitudes", SU1:May 71:27:8139

Hussey, M. J.L.
Simply Supported Rectangular Double-Layered Grids, with A. I. Tarza and W. F.D. Theron, ST3:Mar 71:753:7954
  TR:137:525

Huston, John
Dredging Fundamentals, WW3:Aug 67:45:5390
  Dsc: Joseph R. Bowman, WW2:May 68:258:5924; John B. Herbich, WW3:Aug 68:362:6053; Charles M. Romanowitz, WW3:Aug 69:415:6709
  Clo: WW2:May 70:549:7252
  TR:135:498

Huston, Milton T.
See Vito A. Nacci, CEO-II:70:599

Hustrulid, William
A Simple Stiff Machine for Testing Rock in Compression, with Franklin Robinson, RM14:73:61

Hutchings, Robert
Dsc, ST11:Nov 73:2313:10113, of "Finite Deformation of Biaxially Loaded Columns", ST12:Dec 72:2647:9407

Hutchinson, Bruce G.
Economic Criterion for Highway Capacity Determination, TE3:Aug 72:465:9120
  TR:138:377
Programming of Regional Highway Investments, TE3:Aug 72:493:9087
  TR:138:269
Transport Analysis of Regional Development Plans, UP1:Mar 73:57:9592
  TR:139:129

Hutchinson, Ronald L.
See Richard G. Ahlvin, TE3:Aug 74:625:10727

Hutt, Johnny M.
Dynamic Stability of Plates by Finite Elements, with Ahmed E. Salam, EM3:June 71:879:8211
  TR:137:866

Hutton, Stanley G.
Finite Element Method: A Galerkin Approach, with Donald L. Anderson, EM5:Oct 71:1503:8448
  TR:137:808

Hutzler, Neil
See Kenneth Ligman, EE1:Feb 74:201:10372

Huval, Carl J.
Hydraulic Design of Unlined Rock Tunnels, HY4:July 69:1235:6679
  Dsc: Shrikrishna V. Chitale and K. S. Rajagopalan, HY4:Apr 70:1060:7189; David Ellis Wright, HY4:Apr 70:1061:7189
  Clo: HY1:Jan 71:169:7783
  TR:136:181
Dsc, with Frank M. Neilson, HY8:Aug 70:1754:7439, of "Fluctuating Pressures in Spillway Stilling Basins", HY6:Nov 69:2071:6915

Huvane, Barbara A.
Construction Cost of Expressways, TE2:May 71:173:8113
  TR:137:772

Hvidt, Marion T.
Financial Considerations of Effective Project Management Techniques, EPMT:73:71

Hvorslev, M. Juul
Motorway Bridge Across Lillebaelt, by Chr. Ostenfeld et. al. (Book Review), CE:Dec 71:12

Hwang, Ching
See Liang-Tseng Fan, PO4:Dec 71:841:8595

Hwang, Hackjoo
Namhae Suspension Bridge, with Lawrence Chung Lee, CE:Oct 74:50

Hwang, Li-San
Braking Wave Setup and Decay on Gentle Slopes, with David Divoky, 12CEC:71:377
Dsc, with David Divoky, HY2:Feb 71:353:7863, of "Effect of Flume Width on Bed-Form Characteristics", HY2:Feb 70:473:7077
Dsc, with David Divoky, WW2:May 71:412:8086, of "Harbor Study for San Nicholas Bay, Peru", WW2:May 70:251:7271
See Hsiang Wang, CEC:71:1723

Hwang, Ralph B.
- Effect of Backfill on Drain Flow in Layered Soils, with James N. Luthin and George S. Taylor, IR3: Sept 74:267:10797

Hyatt, M. Leon
- See Gaylord V. Skogerboe, IR:Dec 67:1:5628

Hyde, Charles Gilman
- Charles Gilman Hyde dies at 97, CE:Nov 71:48
- Memoir of, TR:137:1049

Hyde, Henry C.
- Dsc, CE:Feb 70:65, on The Military Draft: Educational and Occupational Deferments for Engineers, CE:May 69:67

Hyden, Hans
- Water Exchange in Two-Layer Stratified Waters, HY3:Mar 74:345:10402

Hyer, Paul V.
- Repeatability in Estuarine Hydraulic Model, HY4: Apr 72:631:8832
  - Dsc: Hugo B. Fischer, HY12:Dec 72:2245:9391; Pazhayannur P. Vaidyaraman and Ganakaloty Puttaramaiah, HY7:July 73:1160:9823
  - Clo: HY2:Feb 74:319:10305
  - TR:139:42

Hyler, W. S.
- See Walter K. Boyd, ST7:July 73:1571:9866

Ianni, Ernest T.
- Dsc, CE:Sept 72:61, on Engineering and Today's Social Problems, CE:Mar 72:64

Ibbitt, Richard P.
- Fitting Methods for Conceptual Catchment Models, with Terence O'Donnell, HY9:Sept 71:1331:8370
  - Dsc: Richard H. McCuen, HY2:Feb 72:404:8681
  - Clo: HY11:Nov 72:2042:9305
  - TR:137:949
- See Terence O'Donnell, HY6:Nov 69:2160:7248

Ichiye, Takashi
- Holographic Method of Wave Spectrum Measurement, with Yasuhiro Sugimori, WAVES: Sept 74:139

Idriss, Izzat M.
- Seismic Response by Variable Damping Finite Elements, with H. Bolton Seed and Norman Serff, GT1:Jan 74:1:10284
- Seismic Response of Horizontal Soil Layers, with H. Bolton Seed, SM4:July 68:1003:6043
  - Dsc: Harold W. Olsen and Albert T.F. Chen, SM3:May 69:927:6525
  - Errata: SM3:May 69:886:6525
  - Clo: SM1:Apr 70:305:6989
- Seismic Response of Soil Deposits, with H. Bolton Seed, SM2:Mar 70:631:7175
  - Dsc: Stuart D. Werner and Samy A. Adham, SM5:Sept 70:1838:7499
  - TR:136:840
- See H. Bolton Seed, SM1:Jan 69:99:6347
- See H. Bolton Seed, SM5:Sept 69:1199:6783
- See H. Bolton Seed, SM6:Nov 69:1453:6906
- See William D. Kovacs, SM2:Feb 71:441:7878
- See H. Bolton Seed, ST2:Feb 71:639:7909
- See H. Bolton Seed, SM9:Sept 71:1249:8371
- See H. Bolton Seed, SM8:Aug 72:787:9108

Iffland, Jerome S.B.
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- Floor-Ceiling System Features Precast Concrete Units, CE:Apr 72:52
  - TR:138:186

Iguti, Fernando
- See Fernando Venancio-Filho, ST7:July 73:1660:9826
- See Fernando Venancio-Filho, TN: ST9:Sept 73:1965: 9968

Ijima, Takeshi
- Breakwater and Quay Wall by Horizontal Plates, with Shigeo Ozaki, Yasuhiko Eguchi and Akira Kobayashi, 12CEC:71:1537
- Equilibrium Range Spectra in Shoaling Water, with Takahiko Matsuo and Kazutami Koga, 12CEC:71: 137

Imai, K.
- See H. Ito, HY9:Sept 73:1353:10022

Imberger, Jorg
- See E J. List, HY9:Sept 73:1461:9992

Imoto, Yoshihiro
- See Hiroshi Yoshida, EM2:Apr 73:343:9666

Imperato, Patricia
- See Thomas H. Cahill, EE2:Apr 74:439:10445

Inerfield, Arthur J.
- Final Report--Comprehensive Study of San Francisco Bay--Summary Conclusions and Recommendations, prepared by University of California, Berkeley, Division of Hydraulic and Sanitary Engineering (Book Review), CE:Mar 72:15

Ingardi, Michael P.
- Dsc, CE:Sept 74, on Sources of Computer Programs, CE:June 74:51

Ingersoll, Alfred C.
- Continuing Education for Civil Engineers - The UCLA-ASCE Professional Certificates, CEE:Feb 74:1-841
- The Nature of Continuing Education, CWFE:Mar 71: 229
- The Nature of Continuing Education, PP1:Jan 72: 113:8660
  - TR:138:144
- Promising Trends in Continuing Education - Programs Available, CEE:Feb 74:2-149
- UCLA Professional Certificate Program in Engineering Management for Public Works, with Ricardo Gonzales, Jr., EI1:Jan 74:45:10301
- See William D. Brinckloe, CE:Sept 74:99

Ingles, O. G.
- Dsc, PES:73:III-111, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589
- Dsc, PES:73:III-119, of "Hydraulic Fracturing in Low Dams of Dispersive Clay", PES:72:I-653

Inglis, Claude C.
- Dsc, HY2:Mar 69:744:6433, of "Rationalization of Lacey's Regime Flow Equations", HY4:July 68:983: 6039

Inman, Douglas L.
- Crater-sink Sand Transfer System, with Roland W. Harris, 12CEC:71:919
- Phase Dependent Roughness Control of Sand Movement, with Edward B. Tunstall, CE13:72:II-1155
- See Robert L. Lowe, CE13:72:I-95

Inoue, Kazuya
- See Yoshiaki Iwasa, ISSF:Aug 72:237

Ippen, Arthur T.
- Environmental Problems and Monitoring in Coastal Waters, CE13:72:I-9
- See Efstathios L. Bourodimos, HY5:Sept 68:1317: 6128
- See Efstathios L. Bourodimos, WW4:Nov 68:465: 6234
- See Donald R.F. Harleman, HY1:Jan 69:9:6340
- See Chiang C. Mei, WW3:Aug 74:217:10754

Iqbal, Mohammad A.
- Interaction Stresses in Composite Systems, with Edward M. Krokosky, EM6:Dec 70:825:7738
  - TR:137:848

Ireland, Emory
Memoir of, TR:135:1130

Ireland, Herbert O.
See Robert J. Westberg, PES:72:I-1037
See Ralph B. Peck, CEE:Feb 74:1-187

Irie, Isao
See Shoji Sato, 12CEC:71:1301

Irons, Bruce M.
Dsc, ST1:Jan 70:152:6990, of "Efficient Solution of Load-Deflection Equations", ST4:Apr 69:661:6510

Irvine, H. Max
Torsional Analysis of Box-Girder Suspension Bridges, ST4:Apr 74:789:10464
  Errata: ST12:Dec 74:2528:10977

Irvine, Robert L.
Kinetic Analysis of Data from Biological Systems, with Donald J. Schaezler, SA4:Aug 71:409:8323
  TR:137:1010

Irwin, Andrew W.
Dsc, with Stuart A. Findlay, ST9:Sept 74:1978:10772, of "Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading", ST12:Dec 73:2355:10234
See Alexander Coull, ST6:June 72:1223:8936

Irwin, George R.
See Ronald B. Madison, ST9:Sept 71:2229:8377
See Ronald B. Madison, ST7:July 74:1331:10653

Irwin, Ross W.
See Gee Tsang, IR2:June 71:334:8156

Irwin, W. W.
See B. P. Dowsley, CE:July 69:64

Isaac, Russell H.
See John R. Elwood, NSCD:71:189

Isaacs, Lewis T.
Dsc, with K. G. Mills, IR1:Mar 72:150:8750, of "Numerical Analysis of Free Surface Seepage Problems", IR1:Mar 71:165:7959
See Colin J. Apelt, HY1:Jan 68:17:5707

Isaacs, Willie P.
Atmospheric Oxygenation in a Simulated Stream, with Anthony F. Gaudy, Jr., SA2:Apr 68:319:5905
  Dsc: Ivan Metzger, SA2:Apr 69:352:6485; Edward L. Thackston and Peter A. Krenkel, SA2:Apr 69:354:6485; H. A.L. Montgomery, SA2:Apr 69:356:6485; David A. Bella, SA2:Apr 69:358:6485; Veerasamy Kothandaraman and Ralph L. Evans, SA2:Apr 69:362:6785
  Clo: SA1:Feb 70:171:7046
  TR:135:561

Isaak, Elmer B.
Environmental Concerns and the Controversial Project, UT73:May 73:299

Isada, Nelson M.
Damage to Structures Due to Floor Shocks, ST2:Feb 71:561:7897
  Dsc: Melvin W. Jackson, ST7:July 71:2030:8225
  TR:137:879
Dynamics of Cambered Rapid-Transit Bridge, ST7:July 69:1553:6701
  TR:135:31
Impulsive Load Stiffness of Flexible Pavements, SM2:Mar 70:639:7176
  TR:136:856

Isenberg, Jeremy
Analysis of Orthotropic Reinforced Concrete Structures, with Samy A. Adham, ST12:Dec 70:2607:7782
  Dsc: Vladimir Carvenka and Kurt H. Gerstle, ST9:Sept 71:2434:8348; Ganpat S. Pandit, ST9:Sept 71:2435:8348; Ivar Holand and Einar Munkeby, ST10:Oct 71:2607:8411
  Clo: ST5:May 72:1184:8861
  TR:137:478
Interaction of Soil and Power Plants in Earthquakes, with Samy A. Adham, PO2:Oct 72:273:9242
  Dsc: Chang Chen, Garry J. Patterson and Don K. Croneberger, PO2:Nov 73:429:10111; Asadour H. Hadjian, PO2:Nov 73:431:10111; Nien-Chien Tsai, PO2:Nov 73:434:10111; Stuart D. Werner and John R. Hall, Jr., PO1:July 74:127:10636
  TR:139:38
Response of Structures to Combined Blast Effects, with Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166
  TR:139:545
Spherical Waves in Inelastic Materials, with Anjan K. Bhaumik, EM3:June 71:901:8207
  TR:137:296
See Jamshid Ghaboussi, SM10:Oct 73:833:10095

Ishai, Ori
Yield and Failure of Glass-Epoxy Composites, with Arlo E. Moehlenpah and Aaron Preis, EM5:Oct 70:739:7616
  TR:136:1240
See Leslie J. Cohen, EM6:Dec 70:867:7732

Ishibashi, Isao
Soil Liquefaction by Torsional Simple Shear Device, with Mehmet A. Sherif, GT8:Aug 74:871:10752

Ishihara, Kenji
Dsc, SM6:Nov 70:2152:7643, of "Development of Failure Around Excavated Slopes", SM2:Mar 70:471:7162
Dsc, with Bang-il Li, SM1:Jan 72:119:8622, of "Sand Liquefaction In Triaxial and Simple Shear Tests", SM4:Apr 71:639:8039

Ishizaki, Hatsuo
Research Review - Asia & Australia, State-of-Art Report 1, TB:73:Ib-7-365

Istock, Conrad A.
Some Ecological Criteria for the Preparation and Review of Environmental Impact Statements, UT73:May 73:163

Isyumov, Nicholas
Dsc, PO1:Jan 71:244:7784, of "Hyperbolic Cooling Towers, Development and Practice", PO1:Jan 70:117:7030
See Peter W. Chen, ST11:Nov 71:2679:8526

Ito, H.
Energy Losses at 90° Pipe Junctions, with K. Imai, HY9:Sept 73:1353:10022
  Dsc: Jacques Bruschin, HY8:Aug 74:1183:10696; Sheng-Tien Hsu, HY9:Sept 74:1281:10770; Sylvester Petryk, HY10:Oct 74:1491:10839
  TR:139:391

Ito, Takeshi
Mixing Method of Stratified Water Layer in Reservoirs, ISSF:Aug 72:569

Ito, Yoshiyuki
Head Loss at Tsunami-Breakwater Opening, 12CEC:71:2123
A Method of Numerical Analysis of Wave Propagation -- Application to Wave Diffraction and Refraction, with Katsutoshi Tanimoto, CE13:72:I-503

Ivanyi, Miklos
Dsc, ST12:Dec 73:2492:10185, of "Buckling of Inelastic I-Beams Under Uniform Moment", ST11: Nov 72:2551:9339

Ives, Kenneth D.
See Roger L. Brockenbrough, ST7:July 70:1305:7400

Ives, Kenneth J.
Theory of Flocculation for Continuous Flow System, with Anand G. Bhole, EE1:Feb 73:17:9540
  Errata: EE6:Dec 73:964:10180
  TR:139:19
Dsc, SA1:Feb 70:185:7046, of "Theory of Sand Filtration", SA3:June 69:399:6593
Dsc, SA6:Dec 70:1445:7713, of "Numerical Solution of Filtration Equations", SA2:Apr 70:195:7199
Dsc, SA6:Dec 70:1458:7713, of "Theoretical Evaluation of Filter Modeling Experiments", SA2: Apr 70:455:7233
Dsc, SA2:Apr 71:231:8013, of "Filtration of Chlorella Through Dune-Sand", SA3:June 70:675: 7332
Dsc, EE5:Oct 73:746:10035, of "Desorption and Retentivity of Filtering Materials", SA6:Dec 72: 937:9401
Dsc, EE6:Dec 74:1297:10971, of "Determining Specific Deposit by Backwash Technique", EE2: Apr 74:353:10449

Ivey, Don L.
See Robert M. Olson, TE2:May 71:291:8125
See Hayes E. Ross, Jr., TE2:May 72:285:8914

Iwagaki, Yuichi
Horizontal Water Particle Velocity of Finite Amplitude Waves, with Tetsuo Sakai, 12CEC:71: 309
Shoaling of Finite Amplitude Long Waves on a Beach of Constant Slope, with Tetsuo Sakai, CE13: 72:I-347
See Shigehisa Nakamura, 12CEC:71:2089

Iwan, Wilfred D.
Galloping Oscillations of Hysteretic Structures, EM6: Dec 73:1129:10231
  TR:139:530
Statistical Linearization for Nonlinear Structures, with I-Min Yang, EM6:Dec 71:1609:8576
  TR:137:955
Steady-State Response of Yielding Shear Structure, EM6:Dec 70:1209:7774
  Dsc: Ricardo Dobry, EM5:Oct 71:1577:8406
  TR:137:851

Iwasa, Yoshiaki
Free Surface Shear Flow Over a Wavy Bed, with John F. Kennedy, HY2:Mar 68:431:5856
  Dsc: Neil L. Coleman, HY1:Jan 69:524:6323; Eggert Hansen, HY1:Jan 69:526:6323; Omar H. Shemdin and Robert G. Dean, HY3:May 69: 1060:6524
  Clo: HY3:Mar 70:837:7113
  TR:135:586
Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, with Kazuya Inoue, ISSF:Aug 72:237

Iwasaki, Toshio
Dissipation of Wave Energy due to Opposing Current, with Michio Sato, CE13:72:I-605
Turbulence in the Weakly Mixing Zone of the Interface, with Tetsuo Abe, ISSF:Aug 72:251

Iyengar, Kashi T. Sundara Raja
Anchor Zone Stresses in Prestressed and Concrete Beams, with Raja Sundara and Mandanapalli K. Prabhakara, ST3:Mar 71:807:7961
  Errata: ST1:Jan 72:359:8623
  TR:137:391
Thick Rectangular Beams, with Chuen-Yuan Chandrashekhara and V. K. Sebastian, TN: EM6: Dec 74:1277:10979
Dsc, with Prakash Desayi and S. Sethunarayanan, ST5:May 74:1150:10506, of "Tests of Concrete Columns in Torsion", ST7:July 73:1409:9850
See R. Narayana Iyengar, EM3:June 70:207:7321

Iyengar, R. Narayana
Probabilistic Response Analyses to Earthquakes, with Kashi T. Sundara Raja Iyengar, EM3:June 70:207: 7321
  Dsc: Shih-Chi Liu, EM2:Apr 71:580:8011
  Clo: EM6:Dec 71:1741:8551
  TR:137:3

Iyengar, S. Hal
Bundled-Tube Structure for Sears Tower, CE:Nov 72: 71
  TR:138:509
Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, TB:73:II-14-185
Stability of Overall Structural Systems, TB:73:II-16-564
Structural Aspects of the Lindheimer Astronomical Observatory, CE:Mar 69:71
  TR:135:163

Izadi, Mohammad V.
See Robert L. Nicholls, SM1:Jan 68:47:5732

Izatt, J. Bryan
See Mervin D. Palmer, HY8:Aug 70:1667:7464

Izumi, Masanori
Impact and Dynamic Load Effects, State-of-Art Report 4, TB:73:Ib-5-77

Izzard, Carl F.
FHWA Traffic Research Program, TE2:May 71:333: 8133
  Errata: TE2:May 72:459:8862
  TR:137:781

Jaakson, Reiner
Reservoir Operation for Recreation Usability, HY10: Oct 73:1813:10058
  TR:139:407

Jabara, Melvin A.
Summary of Workshop on Foundations, with Paul K. Bock, IMROD:Sept 73:541

Jackson, George L.
Dsc, TE4:Nov 69:695:6868, of "Private Engineering in Public Works", TE1:Feb 69:67:6396
See John M. Hayes, CE:Dec 71:63

Jackson, Howard
How to Entice Minority Youth into Engineering, CE: July 74:54

Jackson, James
See Richard F. Lanyon, HY8:Aug 74:1089:10743

Jackson, John P.
Dsc, Inspector vs. Quality Engineer, CE:Oct 70:52
  Dsc: Flange Designations, Thaddeus J. Prorok, CE:Feb 71:55; Flange Designations, H. J. Walter, CE:Feb 71:55

Jackson, Melvin W.
Badly Needed: Changes in Building Codes for Houses, CE:Apr 72:55
  Dsc: Christopher G. Tyson, CE:Sept 72:65
  TR:138:190
Dsc, PO3:July 71:722:8256, of "Earthquake Research Needs For Nuclear Power Plants", PO1:Jan 71:77: 7818
Dsc, ST7:July 71:2027:8225, of "Earthquake Response of Arch Dams", ST11:Nov 70:2321:7681
Dsc, ST7:July 71:2030:8225, of "Damage to Structures Due to Floor Shocks", ST2:Feb 71:561: 7897

Dsc, ST7:July 71:2033:8225, of "Influence of Soil Conditions on Building Damage Potential During Earthquakes", ST2:Feb 71:639:7909
Dsc, ST10:Oct 71:2624:8411, of "Design of Laterally Unsupported Timber Beams", ST3:Mar 71:881:7995
Dsc, ST10:Oct 71:2628:8411, of "Structural Response to Sonic Booms", ST4:Apr 71:1157:8063
Dsc, WW4:Nov 71:775:8488, of "Wind and Surge Damage Due to Hurricane Camille", WW2:May 71:355:8144
Dsc, PO4:Dec 71:879:8554, of "Nuclear Power Plant Tornado Design Considerations", PO2:Mar 71:407:7949
Dsc, PO4:Dec 71:885:8554, of "Containment Structure For Trojan Nuclear Plant", PO2:Mar 71:351:7957
Dsc, PO4:Dec 71:888:8554, of "Seismic Analysis of Nuclear Power Plant Structures", PO2:Mar 71:367:7977
Dsc, SA1:Feb 72:266:8682, of "Selecting Solid Waste Disposal Facilities", SA4:Aug 71:443:8280
Dsc, SA1:Feb 72:271:8682, of "Can Engineering Forecasters Effect Water Law?", SA4:Aug 71:479:8329
Dsc, ST2:Feb 72:541:8684, of "Earthquake Design Formula Considering Local Soil Conditions", ST9:Sept 71:2383:8399
Dsc, TE1:Feb 72:156:8685, of "Transportation Research Needs in Civil Engineering", TE3:Aug 71:541:8343
Dsc, IR1:Mar 72:169:8750, of "Exotic Uses of Aquifers", IR3:Sept 71:515:8352
Dsc, IR1:Mar 72:172:8750, of "Tunnel Vision or Ecological View", IR3:Sept 71:397:8368
Dsc, SM3:Mar 72:309:8751, of "Incinerator-Residue-Fill Site Investigation", SM10:Oct 71:1431:8451
Dsc, SM4:Apr 72:437:8801, of "Engineering Properties of Mine Tailings", SM9:Sept 71:1207:8382
Dsc, PO1:June 72:171:8927, of "Earthquake Forces on Equipment in Nuclear Power Plants", PO3:July 71:649:8240

Jackson, Neil
Concrete Quality, TB:73:Ib-9-896
Cracking and Control, TB:73:III-24-723
Effect of Creep in Slender Columns, TB:73:III-23-625
Plastic Analysis of Transversely Loaded Frames, ST8:Aug 71:2047:8284
  Dsc: Ganpat S. Pandit, ST4:Apr 72:941:8802
  Clo: ST11:Nov 72:9307
  TR:137:999
Torsion/Flexure Interaction, TB:73:III-22-463
See Brij B. Goyal, ST11:Nov 71:2729:8544

Jackson, Norman E.
People, Planning, and the Political Process, PL1:Oct 68:29:6158
  Dsc: Philip D. Roos, Amos Roos and William C. Hughes, TE3:Aug 69:581:6708; Richard F. Broberg, TE3:Aug 69:582:6708
  Clo: TE2:May 70:241:7251
  TR:135:815

Jackson, Robert D.
See Kenneth E. Sorensen, HY5:Sept 68:1231:6114

Jackson, Thomas J.
Hydrology of Porous Pavement Parking Lots, with Robert M. Ragan, HY12:Dec 74:1739:11010

Jackura, Kenneth
See Raymond A. Forsyth, EFSE:Aug 74:254

Jacobs, J. Donovan
Better Specifications for Underground Work, CE:June 71:47
  TR:137:417
Better Specifications for Underground Work, URC:72:515

Jacobs, Myron M.
Dsc, UP2:Oct 70:166:7571, of "Instruction in Urban Planning for Civil Engineers", UP1:Mar 70:23:7127

Jacobson, Amnon R.
Dsc, ST1:Jan 69:127:6325, of "Longitudinally Restrained Reinforced Concrete Beams", ST3:Mar 68:709:5859

Jacobson, Cecil Baltzar
Benefits to Environment Glen Canyon to Hoover Dams, PO2:Nov 73:395:10146
  Dsc: James E. Alverson, PO1:July 74:137:10636
  TR:139:476

Jacobson, Gordon
Dsc, ASCE takes part in London Airports Conference, CE:June 70:62

Jacoby, Shmuel L.S.
Design of Optimal Hydraulic Networks, HY3:May 68:641:5930
  Dsc: Filippo Zoccoli and Augusto Zanotti, HY1:Jan 69:538:6323; Phillip L. Buckingham, HY1:Jan 69:544:6323
  Clo: HY5:Sept 69:1733:6784
  TR:135:605

Jacques, Francis J.
PCI Design Handbook, Precast and Prestressed Concrete, Prestressed Concrete Institute (Book Review), with Allen G. Thurman, CE:Aug 72:9

Jacquot, Raymond G.
Nonstationary Random Column Buckling Problem, EM5:Oct 72:1173:9263
  TR:138:501
Optimal Random Vibration Absorbers, with David L. Hoppe, TN: EM3:June 73:612:9765
Structural Response By Discrete-State Computation, with Christos T. Constantinides, TN: EM2:Apr 72:497:8815

Jagannadha Rao, M. V.
Dsc, with Nagar S. Lakshmana Rao, IR3:Sept 70:371:7498, of " Triangular Broad-Crested Weir", IR4:Dec 69:493:6954
Dsc, with Nagar S. Lakshmana Rao, IR4:Dec 71:656:8553, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987
See Nagar S. Lakshmana Rao, HY2:Feb 73:259:9542

Jagannadha Rao, Vadaporty
Analysis of Composite Prestressed Concrete Beams, with Walter H. Dilger, ST10:Oct 74:2109:10850

Jain, G. S.
See Dinesh Mohan, SM2:Mar 69:668:6429

Jain, Kamlesh K.
Coagulation of Iron Oxide with Alum, with Kun Li and Robert R. Rothfus, EE4:Aug 73:411:9945
  Errata: EE4:Aug 74:1037:10693
  TR:139:296

Jain, N. K.
See K. V. Swaminathan, ST6:June 71:1808:8159

Jain, Ravinder K.
See Jesse M. Diaz, HY11:Nov 70:2279:7678

Jain, Satish
Yield Criterion for Reinforced Concrete Slabs, with John B. Kennedy, ST3:Mar 74:631:10409

Jain, Subhash C.
Dsc, HY9:Sept 71:1562:8345, of "Effect of Channel Shape on Varied Flow Profiles", HY1:Jan 71:55:7796
Dsc, with Frederick A. Locher, HY5:May 72:955:8859, of "Surface Disturbance from Submerged Jet", HY7:July 71:937:8236
Dsc, HY3:Mar 74:492:10379, of "Limitations to Length of Contained Oil Slicks", HY5:May 73:701:9711
See Cesar Farell, HY7:July 73:1167:9823

Jain, Surendra P.
- In-situ Shear Test for Rock Fills, with Ramesh C. Gupta, GT9:Sept 74:1031:10823

Jajoo, Rajendra P.
- See Eric F.P. Burnett, ST9:Sept 71:2315:8395

Jakobsen, Per Roed
- Some Experiments with Sand-filled Flexible Tubes, with Arne Hasle Nielsen, 12CEC:71:1513

Jakobsen, Rolf A.
- Dsc, ST5:May 74:1145:10506, of "The Shear Strength of Reinforced Concrete Members", ST6: June 73:1091:9791

Jalal, Kazi F.
- See Stephen V. Allison, IR1:Mar 74:69:10394

Jamaluddin, Mudar
- See Assad Abdul-Baki, EM3:June 74:547:10613

James, David F.
- Wind Load on Cylinder With Spanwise Protrusion, with Quan-Si Truong, EM6:Dec 72:1573:9416
  - TR:138:543

James, Ernest C.
- Engineering Career Counseling and Education, with Orville Abbot, CE:Jan 70:71
  - TR:136:128
- Dsc, with Fredric T. Katakura, PO4:Dec 71:876: 8551, of "Hydroelectric Power Plant Trashrack Design", PO1:Jan 71:115:7819

James, L. Douglas
- Computers in Flood Control Planning, HY6:Nov 69: 1859:6886
  - Dsc: William C. Hughes, HY4:Apr 70:1102:7189; Robert L. McFall, HY6:June 70:1367:7310
  - Clo: HY1:Jan 71:172:7783
  - TR:136:290
- Economic Derivation of Reservoir Operating Rules, HY5:Sept 68:1217:6111
  - Dsc: Augustine J. Fredrich and Lewis G. Hulman, HY3:May 69:1087:6524
  - Clo: HY1:Jan 70:261:6988
  - TR:135:784
- Role of Economics in Planning Flood Plain Land Use, HY6:June 72:981:8935
  - Dsc: Emmett M. Laursen, HY1:Jan 73:280:9459
  - Clo: HY7:July 73:1165:9823
  - TR:139:56
- Surveys Required to Design Nonstructural Measures, HY10:Oct 73:1823:10062
  - TR:139:411
- Dsc, HY2:Mar 69:7771:6433, of "Optimum Investment in Structural Flood Control", HY6:Nov 68:1507:6238
- Dsc, with Dennis H. Bianchi, HY4:July 69:1470: 6641, of "Economic Planning for Staged Development", HY5:Sept 68:1231:6114
- Dsc, HY1:Jan 70:302:6988, of "Principles and Procedures in Flood Plain Management", HY4:July 69:1321:6696
- See J. Michael Osborne, TE3:Aug 73:637:9933

James, Lee A.
- See W. E. Anderson, ST4:Apr 70:773:7213

James, Mike E., Jr.
- Effect of Curvature on Nonlinear Frame Analyses, with Thomas J. Kozik and Jose E. Martinez, ST7: July 74:1451:10681

James, William
- Approximately Linear Low-Pass Wave Filters, WW1: Feb 73:59:9534
  - TR:139:153
- Resolution of Partial Clapotis, TN: WW1:Feb 70:167: 7049
- Spectral Response of Harbor Resonator Configurations, 12CEC:71:2181
- Two Innovations for Improving Harbor Resonators, WW1:Feb 71:115:7871
  - TR:137:171

James, William R.
- A Class of Probability Models for Littoral Drift, 12CEC:71:831
- See R. J. Hallermeier, WAVES:Sept 74:696

Jamiolkowski, Michele B.
- Dsc, with S. Marchetti, PES:73:III-237, of "Lateral Load Tests on Full-Scale Pile Groups", PES:72:I-1105
- See Michele Belloni, TB:73:Ia-11-990

Jamison, David
- See R. T. Oglesby, SA3:June 68:541:6008

Jamison, Donald K.
- Junction Losses in Laminar and Transitional Flows, with James R. Villemonte, HY7:July 71:1045:8258
  - Dsc: Nagar S. Lakshmana Rao and Kalambur Sridharan, HY5:May 72:958:8859
  - Clo: HY11:Nov 72:2041:9305
  - TR:137:1018

Janes, Henry W.
- Densification of Sand for Drydock by Terra-Probe, SM6:June 73:451:9821
  - TR:139:339
- Dsc, 4PCSM:72:III61, of "The Standard Penetration Test", 4PCSM:71:I1

Jangle, Anil
- See Stanley Serota, CE:Jan 72:73

Janin, Jean J.
- Chemical Grouting for Paris Rapid Transit Tunnels, with Guy F. Le Sciellour, CO1:June 70:61:7382
  - TR:136:530

Janiszewski, Tadeusz
- Dsc, ST2:Nov 72:335:8926, of "Main Cables of Newport Suspension Bridge", ST12:Dec 71:2825: 8606

Jank, Bruce E.
- Substrate Removal Mechanism of Trickling Filters, with W. Ronald Drynan, EE3:June 73:187:9769
  - Dsc: D. M. Pipes, W. G. Characklis and J. V. Matson, EE1:Feb 74:225:10302; George J. Kehrberger, EE3:June 74:765:10564
  - TR:139:102

Jankou, Ziva D.
- Dsc, with Charles F. Reeves, ST9:Sept 70:1973:7567, of "Vibrations of Stacks Supported on Steel Structures", ST12:Dec 69:2831:6965

Jankowski, Robert H.
- See Armando Balloffet, HY10:Oct 70:2135:7568

Janney, Jack R.
- Structural Failures, STF:73:11

Janopaul, Robert N.
- See Arthur R. Reitter, SU2:Sept 68:203:6104

Jansen, Robert B.
- Edmonston Pumping Plant: Nation's Mightiest, CE: Oct 72:67
  - TR:138:465
- States' Experience and Their Problems, IMROD:Sept 73:77
- See William R. Gianelli, CE:June 72:78

Jansen, T. Paul
- Dsc, ST3:Mar 68:835:5828, of "Structural Analysis of Circular Curved Beamn", ST1:Mar 67:221:5099

Janzow, L. G.
- DASHEVEYOR Application In Concrete Dam Construction, with D. F. Evans, II, RCCD:70:297

Jarecki, Stanley J.
Computation of Cutting Length of Guys, with Y. C. Lee and Paul P. Christiano, PO4:Dec 71:817:8587
TR:137:958

Jarema, Raymond
See Frederick Hart, SA3:June 72:598:8928

Jarman, John W.
See Orville T. Magoon, CE13:72:III-2065

Jarvis, R. B.
Dsc, CE:May 70:40, on The Military Draft: Educational and Occupational Deferments for Engineers, CE:May 69:67

Jaske, Robert T.
Dsc, HY11:Nov 73:2158:10109, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Javaheri, Ali R.
Dsc, EE1:Feb 73:106:9521, of "Filtrability Study on Secondary Effluent Filtration", SA3:June 72:505:8965
Dsc, EE3:June 73:390:9758, of "Process Kinetics for Denitrification", SA4:Aug 72:623:9153
See Richard I. Dick, SA2:Apr 71:234:8013

Jaworski, Leon
Our Priceless Heritage, Our Youth, CE:Mar 73:76
Dsc: G. A. Hammond, CE:June 73:22; Darrell J. Turner, CE:June 73:22; T. P. Limber, CE:Aug 73:40
TR:139:141

Jaworski, Norbert A.
Optimal Reservoir Releases for Water Quality Control, with Walter J. Weber, Jr. and Rolf A. Deininger, SA3:June 70:727:7361
Dsc: Brian W. Mar, SA5:Oct 70:1292:7569
Clo: SA3:June 71:379:8157
TR:136:963

Jaworski, Walter E.
See T. William Lambe, PES:72:I-1403

Jayaraman, V. V.
Resistance Studies on Smooth Open Channels, HY5:May 70:1129:7266
Dsc: Robert P. Apmann, HY9:Sept 70:1925:7497; Praxitelis A. Argyropoulos, HY12:Dec 70:2667:7711; Rupchand M. Advani and Pashupati N. Modi, HY1:Jan 71:204:7783; Ralph W. Powell, HY2:Feb 71:365:7863
Clo: HY11:Nov 71:1889:8483
TR:137:29

Jebens, Harold J.
Enhanced Phosphorus Removal in Trickling Filters, with William C. Boyle, SA3:June 72:547:8974
Errata: EE2:Apr 73:161:9635
TR:138:399

Jedlicka, Jerry A.
Some Seismic Studies of Old Dams, IMROD:Sept 73:840

Jefferis, L. H.
See R. G. Reeves, ESE:Apr 70:67

Jeglic, John M.
See George D. Pence, SA2:Apr 68:381:5915

Jellinger, Thomas C.
Development of a Curriculum in Construction Engineering, CEE:Feb 74:1-654

Jen, Yuan
Plunging Wave Pressures on a Semi-cylindrical Tube, with Pang-Mou Lin, 12CEC:71:1469
Plunging Wave Pressures on Semicylindrical Tube, with Pang-Mou Lin, WW3:Aug 71:567:8342
TR:137:1029
Wave Refraction Near San Pedro Bay, California, WW3:Aug 69:379:6749
Dsc: Jean F. Coudert and Fredric Raichlen, WW3:Aug 70:737:7443; Visvaldas J. Grauzinis, WW3:Aug 70:747:7443
Clo: WW1:Feb 71:209:7868
TR:136:240
Dsc, WW2:May 69:238:6528, of "Tide Gage Frequency Response", WW3:Aug 68:317:6072
Dsc, with Lars Skjelbreia, HY11:Nov 73:2135:10109, of "Nonlinear Wave Forces on a Vertical Cylinder", HY11:Nov 72:1895:9333
See Basil W. Wilson, CE13:72:III-2617

Jenab, S. Abdollah
Transient Functions for Land Drainage, with A. Alvin Bishop and Dean F. Peterson, IR3:Sept 69:361:6768
Dsc: Icarahy Da Silveira, IR2:June 70:224:7311
Clo: IR1:Mar 71:213:7941
TR:136:142

Jenike, Andrew W.
Bin Loads, with Jerry R. Johanson, ST4:Mar 68:1011:5916
Dsc: George L. Blanchard and Andre Reimbert, ST2:Feb 69:282:6373
Clo: ST11:Nov 69:2509:6867
TR:135:243

Jenkins, David
See Denny S. Parker, SA1:Feb 72:79:8702

Jenkins, George S.
Tampa International Airport: Model for the Jumbo-Jet Age, CE:Oct 71:68
TR:137:632

Jenkins, John D.
Hills Creek Dam Seepage Correction, with Duane E. Bankofier, PES:72:I-723

Jenkinson, Paul M.
Lateral Stability of Beam and Deck Structure, with John J. Zahn, ST3:Mar 72:599:8786
TR:138:181

Jennett, J. Charles
Character of Sludge Drying, with Israel W. Santry, Jr., SA5:Oct 69:849:6833
Dsc: Brian W. Mar and Martin E. Harper, SA2:Apr 70:651:7190
Clo: SA6:Dec 70:1443:7713
TR:136:216

Jennings, Alan
Static Analysis of Suspension Bridges, with John E. Mairs, ST11:Nov 72:2433:9321
TR:138:508
Dsc, with Brian R. Corr, EM5:Oct 74:1043:10837, of "Large Eigenvalue Problems in Dynamic Analysis", EM6:Dec 72:1471:9433

Jennings, J. E.
An Approach to the Stability of Rock Slopes Based on the Theory of Limiting Equilibrium with a Material Exhibiting Anisotropic Shear Strength, RM13:72:269

Jennings, Marshall E.
Dsc, HY4:July 69:1468:6641, of "Operational Hydrology Using Residuals", HY4:July 68:909:6034
See Clayton H. Hardison, HY3:Mar 72:415:8766
See Daniel P. Bauer, HYB:Aug 73:167

Jennings, Paul C.
Collapse of Yielding Structures During Earthquakes, with Raul Husid, EM5:Oct 68:1045:6154
Dsc: Giuliano Augusti, EM4:Aug 69:1008:6705
Clo: EM3:June 70:367:7309
TR:135:716

Equivalent Viscous Damping for Yielding Structures, EM1:Feb 68:103:5793
  Dsc: Shih-Chi Liu, EM4:Aug 68:1003:6055; Dikon Rea, EM6:Dec 68:1575:6260
  Clo: EM4:Aug 69:1004:6705
  TR:135:465
See Brent J. Hoerner, EM4:Aug 69:827:6714
See George W. Housner, CE:Feb 72:72
See Richard B. Fallgren, PO1:July 74:1:10652

Jennings, Robert W.
Dsc, CE:June 70:43, on Monuments vs. Plane Coordinates, CE:Dec 69:56

Jens, Stifel W.
Some Notes on Approaches and Viewpoints of Private Agencies to Metropolitan Water Management, UWRM:71:47

Jensen, A. Max
See Robert H. Weight, PO2:Nov 68:143:6229

Jensen, Albert P.
See John T. Merrifield, CE:Nov 71:52

Jensen, Eugene T.
The Engineer and the New Environment, PP3:July 72:303:9032
  TR:138:381
Federal Involvement Toward Clean Water for Our Future Environment, CWFE:Mar 71:267
Dsc, Level of Thermal discharge, CE:July 72:65
Dsc, CE:May 71:43, on Politics and Water Pollution, CE:Oct 70:41
Dsc, CE:July 72:69, on Design Standards for Wastewater Treatment Systems, CE:Feb 72:40

Jensen, H. Gordon
Efficient Solutions for Linear Matrix Equations, with Gary A. Parks, ST1:Jan 70:49:7007
  Dsc: Fernando Venancio Fiho, ST11:Nov 70:2534:7644
  Clo: ST6:June 71:1802:8159
  TR:13:52
Dsc, with Gary A. Parks, ST8:Aug 70:1814:7442, of "Computer Analysis of Large Linear Frames", ST11:Nov 69:2401:6897

Jensen, J. Kirkegaard
Measurement of Sediment Suspension in Combinations of Waves and Currents, with Torben Sorensen, CE13:72:II-1097

Jensen, Jens Jacob
Dsc, ST2:Feb 72:530:8684, of "Cable-Suspended Roof Construction State-of-the-Art, Subcommittee on Cable-Suspended Roof Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division", ST6:June 71:1715:8190

Jensen, Loren D.
Aquatic Ecosystems and Thermal Power Plants, with Derek K. Brady, PO1:Jan 71:209:7802
  Clo: PO4:Dec 71:875:8554
  TR:137:130

Jensen, Marvin E.
Consumptive Use of Water and Irrigation Water Requirements, CUWI:74, 215pp.
Scheduling Irrigations Using Climate-Crop-Soil Data, with David C.N. Robb and C. Eugene Franzoy, IR1:Mar 70:25:7131
  TR:136:524
See James L. Wright, IR2:June 72:193:8940

Jensen, Rolf
Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, TB:73:Ib-8-523

Jeppson, Roland W.
Free-Surface Flow Through Heterogeneous Porous Media, HY1:Jan 69:363:6364
  TR:135:157
Graphical Solution to Hydraulic Jump, HY1:Jan 70:103:7014
  Dsc: Nani G. Bhowmik, HY7:July 70:1647:7384; Abhimanyu Swain, HY7:July 70:1649:7384; Frederic T. Mavis, HY8:Aug 70:1765:7439; James J. Sharp, HY8:Aug 70:1767:7439; Praxitelis A. Argyropoulos, HY9:Sept 70:1906:7497; Rupchand M. Advani and Pashupati N. Modi, HY11:Nov 70:2384:7641; V. Mura Hari, HY12:Dec 70:2618:7711
  Clo: HY7:July 71:1132:8223
  TR:136:915
Inverse Solution to Three-Dimensional Flows, EM4:Aug 72:789:9110
  TR:138:374
Numerical Solutions to Free-Surface Axisymmetric Flows, EM1:Feb 69:1:6381
  TR:135:265

Jerus, George R.
Plumbing and Fire Protection, State-of-Art Report 3, TB:73:Ia-2-327

Jessup, Mary E.
Forty Years of ASCE and "Civil Engineering", CE:Oct 70:59
  TR:136:977

Jessup, Walter E.
Swimming Again in Lake Washington, CE:Mar 72:60
  TR:138:139

Jetter, Frederick R.
See Donald L. Dean, TN: ST8:Aug 72:1893:9086

Jewkes, Stanley E.
Dsc, PWS:Nov 72:231, of "Application of New Technology to the Solution of Environmental Problems", PWS:Nov 72:219

Jezequel, Jean-Francois
See Francois Baguelin, SM11:Nov 72:1129:9377
See Francois Baguelin, EFSE:Aug 74:312

Jhansale, H. R.
Dsc, with T. H. Topper, ST3:Mar 69:523:6430, of "Inelastic Deflections of Beams", ST6:June 68:1549:6012

Jhaveri, Dilip P.
See Shih-Chi Liu, EM5:Oct 69:1145:6844

Jilani, A. K.M.
See A. L. Swami, HY11:Nov 73:2152:10109
See A. L. Swami, HY1:Jan 74:235:10251

Jimenez Salas, Jose A.
Dsc, SM4:Apr 72:427:8801, of "Stiffened Mats on Expansive Clay", SM7:July 71:999:8265

Jirka, Gerhard
See Gerrit Abraham, HY8:Aug 74:1180:10696

Jirsa, James O.
Cast-in-Place Joints for Tall Concrete Buildings, State-of-Art Report 3, TB:73:III-21-191
Pattern Loading on Reinforced Concrete Floor Slabs, with Mete A. Sozen and Chester P. Siess, ST6:June 69:1117:6588
  TR:135:90
See I. Demir Karsan, ST12:Dec 69:2543:6935
See I. Demir Karsan, ST8:Aug 70:1675:7484

Jobin, William R.
Environmental Control of Bilharzia Snails in Small Reservoirs, IR3:Sept 73:365:9994
  TR:139:420

Jobling, Graham A.
Physical Model Study of Border-Strip Irrigation, with A. Keith Turner, IR4:Dec 73:493:10195
  Dsc: Pratap Singh and Hernanda S. Chaudan, IR4:Dec 74:513:10975
  TR:139:485

Jobson, Harvey E.
The Dissipation of Excess Heat from Water Systems, PO1:May 73:089:9702
  Dsc: Edward R. Holley, PO1:July 74:133:10636
  TR:139:167
Predicting Concentration Profiles in Open Channels, with William W. Sayre, HY10:Oct 70:1983:7618
  Dsc: Mehmetcik Bayazit, HY5:May 71:754:8081
  Clo: HY12:Dec 71:2087:8552
  TR:137:165
Vertical Transfer in Open Channel Flow, with William W. Sayre, HY3:Mar 70:703:7148
  TR:136:662
Dsc, with Harold B. Gotaas, CE:Apr 71:41, on Population and People, CE:Dec 70:27
Dsc, with Carl F. Nordin, HY9:Sept 71:1541:8345, of "Motion of Single Particles in Alluvial Channels", HY12:Dec 70:2501:7770
Dsc, HY12:Dec 74:1851:10974, of "Diffusion and Dispersion in Open Channel Flow", HY1:Jan 74:159:10298
See Daniel P. Bauer, HYB:Aug 73:167
See Baum K. Lee, HY7:July 74:849:10657
See James P. Bennett, EE4:Aug 74:1040:10693

Jofriet, Jan C.
Finite Element Analysis of Reinforced Concrete Slabs, with Gregory M. McNeice, ST3:Mar 71:785:7963
  Dsc: Alex E. Cardenas, ST12:Dec 71:2905:8557; Dan E. Branson, ST12:Dec 71:2907:8557
  Clo: ST8:Aug 72:1869:9079
  TR:137:539
Short Term Deflection of Concrete Flat Plates, ST1:Jan 73:167:9488
  Errata: ST11:Nov 73:2325:10113
  TR:139:209

Joga Rao, C. V.
See Kaja Vijayakumar, EM3:June 71:701:8171

Johannesson, Palmi
See Per Moller Bruun, WW1:Feb 72:113:8686

Johanson, Jerry R.
See Andrew W. Jenike, ST4:Mar 68:1011:5916

Johansons, H. A.
Dsc, ST6:June 70:1256:7314, of "Behavior of Simply Supported Slabs", ST12:Dec 69:2703:6945

John, Klaus W.
Graphical Stability Analysis of Slopes in Jointed Rock, SM2:Mar 68:497:5865
  Dsc: Marc Panet, SM2:Mar 69:685:6429; Raymond Vormeringer, SM2:Mar 69:686:6429; Gaston Vigier, SM2:Mar 69:690:6429; Richard E. Goodman, SM2:Mar 69:698:6429
  Clo: SM6:Nov 69:1541:6894
  TR:135:829

John, Wayne H.
Penstock Construction at Grand Coulee Dam, CE:Dec 73:52
  TR:139:537

Johns, D. J.
See S. Gopalacharyulu, EM5:Oct 73:943:10085

Johns, Kenneth C.
Simultaneous Buckling in Symmetric Structural Systems, EM4:Aug 72:835:9106
  TR:138:369

Johnsen, Th. Lunde
Dsc, with John R. Roy, ST8:Aug 74:1726:10697, of "Solution of Linear Equations--State-of-the-Art", ST7:July 73:1507:9861

Johnson, A. Morgan
Management Degree Program for Employed Public Works Directors, CEE:Feb 74:1-728

Johnson, Albert L.
Dsc, with Shien T. Wang, ST1:Jan 69:117:6325, of "Bending Strength of Aluminum Formed Sheet Members", ST2:Feb 68:511:5816

Johnson, Allen E.
See Stephen J. Burges, IR2:June 73:143:9785

Johnson, Allen T.
Meeting the Challenge of Winter Construction, CE:Nov 72:68
  TR:138:507

Johnson, Bruce
See John S. Fisher, WAVES:Sept 74:799

Johnson, C. Philip
Beam Buckling by Finite Element Procedure, with Kenneth M. Will, ST3:Mar 74:669:10432

Johnson, Carl B.
See Karl V. Steinbrugge, PP4:Oct 73:513:10105

Johnson, Clifton W.
Winter Storm and Flood Analyses, Northwest Interior, with Robin P. McArthur, HYB:Aug 73:359

Johnson, Conor D.
Dynamic Stability of Circular Cylindrical Sandwich Panels, with Nelson R. Bauld, Jr., EM6:Dec 71:1643:8598
  TR:137:959

Johnson, David
Optimum Elastic Design of Redundant Trusses, with Derick M. Brotton, ST12:Dec 69:2589:6938
  Dsc: Kenneth F. Reinschmidt and Alan D. Russell, ST8:Aug 70:1829:7442; Geoffrey G. Roy, Leonard K. Stevens and A. Raymond Toakley, ST8:Aug 70:1832:7442; Bakul S. Bulsari and Manhar C. Thakkar, ST8:Aug 70:1835:7442
  Clo: ST3:Mar 71:968:7944
  TR:136:399

Johnson, David E.
See W. Paul Winn, HY12:Dec 70:2519:7771

Johnson, E. Russell
Memoir of, TR:138:630

Johnson, Franklin B.
Structural Strength of Hollow Clay Tile Assemblages, with John H. Matthys, ST2:Feb 73:259:9577
  TR:139:226
See Robert I. Carr, CO1:Mar 74:59:10428

Johnson, Frederick C.
Planning PRT Systems for Urban Renewal Projects, TE3:Aug 73:585:9909
  TR:139:354

Johnson, Gerald W.
Reliability of Refraction in Polar Astronavigation, with James L. Clapp, SU2:Nov 71:165:8502
  TR:137:1026
Solar Astronavigation in High Latitudes, with James L. Clapp, SU1:May 71:27:8139
  Dsc: Mushtaq Hussain, SU1:July 72:123:9004
  Clo: SU1:Sept 73:133:9965
  TR:139:25
Systematic Errors in High Latitude Astronavigation, TN: SU2:Nov 74:183:10905

Johnson, Gordon R.
Stiffness Coefficients for Embedded Footings, with Paul P. Christiano and Howard I. Epstein, EPCE:Aug 74:499
Stiffness Coefficients for Layered Media, with Howard I. Epstein and Paul P. Christiano, TN: ST7:July 74:1537:10647
See Howard I Epstein, EM6:Dec 74:1269:10972

Johnson, Hadley, Jr.
The Civil Engineer: Quiet Man or Spokesman?, PP1: Oct 71:51:8467
TR:137:815

Johnson, Henry F.
See James M. Robertson, EM6:Dec 70:1171:7754

Johnson, Horace A.
Flow Through Rockfill Dam, SM2:Feb 71:329:7914
Dsc: Thomas Kluber and Herbert Breth, SM11: Nov 71:1609:8484
Clo: SM5:May 72:502:8860
TR:137:571
Solution of Steady Flow in Open Channels by Graphs, CE:Dec 70:46
Dsc, HY6:June 70:1370:7310, of "Nonlinear Flow in Porous Media by Finite Elements", HY6:Nov 69: 2093:6927

Johnson, Howard P.
See Glenn O. Schwab, IR1:Mar 69:199:6480

Johnson, J. Donald
Bromine and Bromamine Disinfection Chemistry, with Ragnar Overby, NSCD:71:37
Bromine and Bromamine Disinfection Chemistry, with Ragnar Overby, SA5:Oct 71:617:8425
Dsc: George C. White, SA4:Aug 72:666:9077
Clo: EE3:June 73:371:9758
TR:139:32

Johnson, Jack G.
State Flood-Plain Management Activities, HY10:Oct 70:2041:7589
Dsc: Robert L. McFall, HY2:Feb 71:381:7863
TR:136:1166

Johnson, James W.
Efficient Fabrication of Glued-Laminated Timbers, ST3:Mar 73:431:9623
TR:139:269

Johnson, Joe W.
Characteristics and Behavior of Pacific Coast Tidal Inlets, WW3:Aug 73:325:9927
Dsc: Richard Silvester, WW3:Aug 74:251:10699; Per Moller Bruun and Franciscus Gerritsen, WW4:Nov 74:389:10903; Ashish J. Mehta, WW4:Nov 74:397:10903; Morrough P. O'Brien, WW4:Nov 74:398:10903; Jade Dattatri and Irvathur Vasudeva Nayak, WW4:Nov 74:399: 10903
TR:139:390
Seasonal Bottom Changes - Bolinas Bay, California, 12CEC:71:1383
See Madan M. Das, 12CEC:71:2281

Johnson, John E.
See Jun W. Lee, EM6:Dec 73:1283:10207

Johnson, Keith A.
Meteorology and Hydrology of Rapid City Flood, HYB:Aug 73:451

Johnson, Lawrence D.
See Chandrakant S. Desai, GT9:Sept 74:1009:10789

Johnson, Lawrence P., Jr.
Memoir of, TR:138:630

Johnson, Martin L.
Research on Sleepers River at Danville, Vermont, IR1:Mar 70:67:7184
TR:136:1198

Johnson, Marvin M.
Dynamic Programming of Highway Safety Projects, with Charles E. Dare and Harry B. Skinner, TE4: Nov 71:667:8534
TR:137:970

Johnson, Paul K.
A Reel-Type Pipelaying Barge, CE:Oct 71:45
TR:137:617

Johnson, Perry L.
See Danny L. King, HY9:Sept 71:1535:8345

Johnson, R. Paul
Research On Steel-Concrete Composite Beams, ST3: Mar 70:445:7122
TR:136:597
See J. Jay Climenhaga, ST6:June 72:1239:8954

Johnson, Randall A.P.
See Wm. H. Claire, TE1:Feb 71:51:7882

Johnson, Robert B.
See Kuang-Han Chu, ST7:July 74:1397:10666

Johnson, Robert D.
Civil Engineers in Aerospace Industry, ESE:Apr 70: 133

Johnson, Robert E.
See W. L. Grigg, PO2:Oct 67:1:5482

Johnson, Ronald E.
Regression Model of Wave Forces on Ocean Outfalls, WW2:May 70:289:7275
Dsc: Charles Petrauskas, WW2:May 71:414:8086
Clo: WW1:Feb 72:71:8686
TR:137:36

Johnson, Russell
See Larry W. Oline, EM4:Aug 71:1159:8314

Johnson, Sandra
Dsc, CE:July 73:25, on Are More Women Needed in Civil Engineering, CE:May 73:54

Johnson, Sidney M.
Dead, Live and Construction Loads, State-of-Art Report 3, TB:73:Ib-5-59

Johnson, Stanley J.
Book Review: Soil Stabilization, Principles And Practices, CE:July 73:30
Foundation Precompression With Vertical Sand Drains, SM1:Jan 70:145:7019
Dsc: Reginald A. Barron, SM5:Sept 70:1831:7499
Clo: SM3:Mar 71:583:7943
Foundation Precompression with Vertical Sand Drains, PISST:71:9
Dsc: Reginald A. Barron, PISST:Aug 68:40
Clo: PISST:Aug 68:42
Precompression for Improving Foundation Soils, SM1:Jan 70:111:7020
Dsc: Jerome C. Neyer and Sachinder N. Gupta, SM6:Nov 70:2138:7643
Clo: SM6:June 71:926:8158
TR:136:578
Precompression for Improving Foundation Soils, PISST:71:53
Dsc: Jerome C. Neyer and Sachinder N. Gupta, PISST:71:87
Clo: PISST:71:89

Johnson, Stephen E.
Convergence in Modal Synthesis, with Walter C. Hurty, EM5:Oct 72:1105:9281
TR:138:527

Johnson, Stewart W.
The Civil Engineer in Aerospace, Task Committee on Civil Engineering in Space of the Committee on Space Facilities of the Aero-Space Transport Division, TE2:May 71:247:8124
Civil Engineers in the Aerospace Program, ESE:Apr 70:127
Manned Space Station: Civil Engineer's Role, CE:Oct 71:88
TR:137:656

Master's Degree in Civil Engineering / Facilities: A Program Offered at the Air Force Institute of Technology School of Engineering for Air Force Civil Engineers, CEE:Feb 74:1-157

Johnson, Walter K.
Process Kinetics for Denitrification, SA4:Aug 72:623:9153
  Dsc: Edward D. Schroeder, EE1:Feb 73:107:9521; H. David Stensel, EE3:June 73:388:9758; Ali R. Javaheri, EE3:June 73:390:9758; Bengt G. Hultman, EE4:Aug 73:559:9893
  Clo: EE3:June 74:757:10564
  TR:139:378

Johnson, Wayne A.
Dsc, with Mohammad Hanif Chaudhry, PO1:June 72:179:8927, of "Graphical and Computer Analysis of Tailrace Surges", PO3:July 71:697:8261

Johnson, William K.
Assessing Social Consequences of Water Deficiencies, IR4:Dec 71:547:8566
  Dsc: William A. Fischer, IR3:Sept 72:505:9157
  Clo: IR1:Mar 73:111:9581
  TR:138:60
Changes Necessary in ASCE, CE:July 70:83
  Dsc: Ray S. Hansen, CE:Nov 70:64
  TR:136:599
Development of a Planning Program: A Case Study, with Karl M. Romstad and George Tchobanoglous, CEE:Feb 74:1-71
Environmental Litigation: Lessons From the Courts, CE:Jan 72:55
  Dsc: Melvin C. Sueltenfuss, CE:June 72:50; Stanley E. Degler, CE:May 72:48
  Clo: CE:June 72:50
  TR:138:31
Looking ahead - What Can One Man Do?, CE:Jan 71:77
Recycling Civil Engineering Education, CE:Oct 71:101
  Dsc: Lewis H. Blakey, CE:Apr 72:71
Use of Systems Analysis in Water Resources Planning, HY9:Sept 72:1543:9174
  TR:138:446
See Alan F. Babb, HY6:Nov 68:1421:6237
See Thomas C. Ferrara, UP2:Dec 71:179:8585

Johnston, Bruce G.
Meaning of Structural Design, TB:73:II-19-894
Spaced Steel Columns, ST5:May 71:1465:8109
  Dsc: Benjamin Koo, ST2:Feb 72:513:8684
  Clo: ST11:Nov 72:9307
  TR:137:919
See Fung J. Lin, ST7:July 70:1377:7404
Dsc, CE:May 74:20

Johnston, Carl Albert
Memoir of, TR:138:631

Johnston, Colin D.
Ferrocement—Material Behavior in Flexure, with Dallas N. Mowat, ST10:Oct 74:2053:10878

Johnston, David W.
Analysis of Dowel Action, with Paul Zia, ST5:May 71:1611:8147
  Dsc: Hans Gesund, ST10:Oct 71:2632:8411; Ganpat S. Pandit, ST2:Feb 72:526:8684
  Clo: ST10:Oct 72:2314:9227
  TR:137:638
See Leonard J. Langfelder, 4PCSM:71:II15

Johnston, E. Russell, Jr.
See Gerald Zamost, EM4:Aug 71:1133:8313

Johnston, Robert C.
See Jacob Feld, CE:Aug 74:54

Johnston, Roy G.
Drift Criteria, State-of-Art Report 2, TB:73:II-17-635

Johnston, Sterling B.
Site Consistent Rock Motion, PO2:Nov 73:365:10140
  TR:139:410
See Alan H. Mattock, ST10:Oct 68:2351:6168

Johnston, Warren E.
See Verne H. Scott, HYB:Aug 73:409

Johnstone, Don
Dsc, CE:Apr 72:57, on Anti-Technology--The New Myth, CE:Jan 72:68

Joli-Coeur, Paul
See Raymond P. Benson, URC:72:407

Joline, Everett S.
Optimization of Runway Exit Configurations, TE1:Feb 74:85:10350

Jolly, J. Peter
Simulation Accuracies of Gradually Varied Flow, with Vujica Yevjevich, HY7:July 74:1011:10677

Jombock, J. R.
Bending Strength of Aluminum Formed Sheet Members, with John W. Clark, ST2:Feb 68:511:5816
  Dsc: Albert L. Johnson and Shien T. Wang, ST1:Jan 69:117:6325
  Clo: ST9:Sept 69:1977:6755
  TR:135:351

Jonas, Ernest
See John Lowe, III, SM1:Jan 69:77:6327

Jonatowski, John J.
Inelastic Stiffened Suspension Space Structures, with Charles Birnstiel, ST6:June 70:1143:7364
  TR:136:919
Dsc, with Charles Birnstiel, ST12:Dec 71:2895:8557, of "Nonlinear Analysis of Cable and Truss Structures", ST2:Feb 71:679:7937
Dsc, ST3:Mar 72:770:8752, of "Analysis of Cable-Stayed Girder Bridges", ST5:May 71:1481:8116

Jones, Barclay G.
Linearized Non-Stokesian Drag in Turbulent Flow, with Raymond J. Ostensen and Charles C. Meek, TN: EM1:Feb 73:233:9528

Jones, Benjamin A., Jr.
See Carroll J.W. Drablos, IR1:Mar 69:185:6479

Jones, Charles E.
See William D. Whetstone, ST10:Oct 69:2077:6821

Jones, Chester W.
See Richard J. Willson, IR4:Dec 68:531:6261

Jones, D. Barrie
See David J. Naylor, SM12:Dec 73:1170:10184

Jones, D. Earl, Jr.
Expansive Soils -- the Hidden Disaster, with Wesley G. Holtz, CE:Aug 73:49
  Dsc: Anil K. Kar, CE:Mar 74:24
  TR:139:338
Some Urban Water Resources Mangement Dimensions, UWRM:71:14
Where Is Urban Hydrology Practice Today?, HY2:Feb 71:257:7917
  Dsc: Chester C. Kisiel, HY12:Dec 71:2104:8552
  TR:137:1041
Dsc, HY9:Sept 70:1879:7497, of "Urban Runoff by Road Research Laboratory Method", HY6:Nov 69:1809:6878
Dsc, CE:Dec 73:32, on Lime Slurry Pressure Injection Tames Expansive Clays, CE:Oct 73:42
See Harold P. Guy, HY12:Dec 72:2099:9420

Jones, Eugene D.
Case Studies of Interdisciplinary Team Efforts in Environmental Design, ABS:71:75

Jones, Gene W.
Big Steel-Truss Roof Welded on Ground, Lifted into Position, CE:Oct 69:42
TR:136:6

Jones, Holway R.
See George C. Bestor, CPB:72, 518pp.

Jones, Jack C.
Summary of the Session on International Experiences, IMROD:Sept 73:262
See Richard C. Acker, SM10:Oct 72:995:9303

Jones, Jack M.
Toronto Converts Decaying Waterfront into Parks, CE:Sept 73:74
TR:139:395

Jones, Jo Buck
Memoir of, TR:137:1063

Jones, John F.
See Peter C. Trescott, WW3:May 70:1115:7264

Jones, Kay H.
Research Needs in Evironmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, EE6:Dec 73:801: 10198
TR:139:462
Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, EE4:Aug 73:461:9936
Dsc: Thiruvenkatachari Viraraghavan, EE3:June 74:778:10564
TR:139:258

Jones, Llewellyn E.
Linearizing Weight Factors For Least-Squares Fitting, HY5:May 71:665:8089
TR:137:301

Jones, Marvin
See Kuang-Han Chu, ST7:July 68:1853:6017

Jones, Michael P.
Friction Overlay Improves Runway Skid Resistance, CE:Mar 73:45
Dsc: A. G. Delong, CE:June 73:24
TR:139:98

Jones, Norman B.
Dsc, ST11:Nov 74:2345:10899, of "Performance of Wood Construction in Disaster Areas", ST12:Dec 73:2345:10230

Jones, Ordie R.
See Vladimir S. Aronovici, IR1:Mar 72:65:8760

Jones, Peris S.
See M. Riazul Hasan, TN: IR3:Aug 72:511:9160

Jones, Rembert F., Jr.
Shell and Plate Analysis by Finite Elements, ST5: May 73:889:9744
TR:139:331

Jones, Richard H.
See Robert E. Stewart, CEO-II:70:1151
See Robert E. Stewart, SA4:Aug 71:485:8340

Jones, Robert C.
Shotcrete Practices at the Henderson Mine, SUSS: July 73:50

Jones, Ronald A.
Instrumentation to Monitor Behavior of Shotcrete Support Systems, with J. W. Mahar, SUSS:July 73: 297

Jones, Russel C.
Currents in Civil Engineering Education, CEE:Feb 74:2-90
Option Packages for Undergraduate Technical Depth, CEE:Feb 74:1-32
Practical Continuing Education for the Individual Engineer, CE:Feb 70:66
TR:136:105
Trends in Construction Materials: An Overview, with Fred Moavenzadeh, CE:Aug 69:28
TR:135:805
See George E. Mason, CEE:Feb 74:1-620

Jones, S. E.
See Don J. Wood, HY1:Jan 73:167:9500

Jones, Wilbourne O.
Memoir of, TR:139:566

Jonsson, Asgeir
See John W. Smith, PO3:June 70:437:7359

Jonsson, Erik
Goals for Dallas Program, CE:Sept 72:58
Dsc: Mark H. Jordan, CE:May 73:45
Clo: CE:Nov 72:67
TR:138:394

Jonsson, Ivar G.
Interaction between Waves and Currents, with Christian Skougaard and John D. Wang, 12CEC:71: 489

Jopling, William F.
See Herbert B. Foster, Jr., SA3:June 69:503:6609

Jordaan, Ian J.
Collapse of Curved Reinforced Concrete Beams, with Magdi M. A. Khalifa and Arthur E. McMullen, ST11:Nov 74:2255:10951
Coupled Walls Subjected To Discontinuous Distributed Loads, with Robert E. Loov, TN: ST7: July 72:1675:9069

Jordaan, Jan Malan, Jr.
Simulation of Waves by an Underwater Explosion, WW3:Aug 69:355:6745
TR:135:803
Study of Durban Harbor Silting and Beach Erosion, 12CEC:71:1097

Jordan, Frederick E.
A Black Civil Engineer Looks at His Profession, CE: Sept 69:93
Dsc: Robert L. McFall, CE:Jan 70:73; Paul W. Schuldiner, CE:Jan 70:73; Frederick E. McJunkin, CE:Jan 70:73; Alfred Obrist, CE:Jan 70:73; Daniel P. Moynihan, CE:Jan 70:73; C. D. Ward, CE:Jan 70:73; J. T. Ryan, CE:Jan 70: 73; William D. Dyke, CE:Jan 70:73
TR:135:879
Dsc, CE:Jan 71:45, on Black People Call for ASCE Social Action, CE:Dec 69:73

Jordan, Jane C.
See Robert L. Schiffman, SM1:Jan 69:285:6370
See Robert L. Schiffman, SM2:Mar 70:649:7178

Jordan, Mark H.
Dsc, CO2:Nov 71:342:8482, of "Design Conduit System By Dynamic Programming", CO1:Mar 71: 383:7998
Dsc, CE:May 73:45, on Goals for Dallas Program, CE:Sept 72:58

Jordan, Michael A.
Dsc, CE:Aug 73:24, on Lateral Support of Concrete Block Walls, CE:May 73:74

Jorgensen, Roy E.
PPB System Implications on Future Highway Program, TE2:May 69:373:6566
Dsc: Norman L. Cooper, TE4:Nov 69:711:6868
Clo: TE3:Aug 70:436:7440
TR:135:1057

Jorgenson, James L.
Probability of Plastic Collapse Failure, with John E. Goldberg, ST8:Aug 69:1743:6751
  Dsc: C. Allin Cornell, ST2:Feb 70:441:7047
  TR:136:736

Joseph, Arnold B.
The Federal Water Pollution Control Administration's Research Program on Ocean Pollution Control, with Fred D. Sisler, Donald J. Baumgartner and William A. Cawley, CEO-II:70:465

Joseph, Eratakulan S.
Probability Distribution of Annual Droughts, IR4:Dec 70:461:7727
  Dsc: Krishan P. Singh, IR3:Sept 71:539:8346; Henry C. Riggs, IR3:Sept 71:540:8346
  TR:137:900

Joseph, Irving
Start-up Pressures in Short Pump Discharge Lines, with Frank A. Hamill, HY7:July 72:1117:9014
  Dsc: Ray S. Quick, HY5:May 73:853:9689; Edmond E. Chapus and Jacques L. Dubouchet, HY8:Aug 73:1270:9895
  Clo: HY4:Apr 74:597:10441
  TR:139:67

Josey, J. Larry
See Oktay Ural, PP1:Jan 73:91:9502

Joustra, D. Sj.
See W. T. Bakker, 12CEC:71:709

Joyner, Harvey R.
Regional-Local Conflicts in Transportation Planning, TE3:Aug 72:515:9136
  TR:138:394

Juaseekoon, Manu
See Donald R. Drew, WW3:Aug 72:393:9131

Judd, William R.
Predicted and Meausred Displacements for Tunnels, with William H. Perloff, URC:72:487

Judge, Raymond F.A.
See Frederick R. Martin, TE4:Nov 73:785:10154

Judycki, Dennis C.
West Virginia Commercial Air Trip Generations, with Frederick J. Wegmann and Everett C. Carter, TE2:May 70:185:7281
  TR:136:492

Juhl, Heinz G.
Horizontal Thermal Movement of Curved Bridge Decks, ST10:Oct 70:2037:7590
  Dsc: Ganpat S. Pandit, ST7:July 71:2025:8225; Walter Lippoth, ST8:Aug 71:2145:8271
  Clo: ST2:Feb 72:501:8684
  TR:137:170

Juliano, David W.
Reaeration Measurements in an Estuarn, SA6:Dec 69:1165:6987
  Clo: SA1:Feb 71:104:7865
  TR:136:391

Jumikis, Alfreds R.
Soil Vertical Stress Influence Charts for Rectangles, TN: SM2:Feb 71:521:7860
Vertical Stress Chart for Rigid Circular Foundations, TN: SM12:Dec 73:1196:10189

Justice, J. A.
See Leonard J. Langfelder, SM4:July 68:981:6040

Justin, Joel B.
Dsc, IR4:Dec 69:610:6930, of "Role of Irrigation in the West's Expanding Economy", IR4:Dec 68:401:6281

Juyal, R. V.
See Palepu V. Rao, PO:Mar 69:35:6456

Kaar, Paul H.
See Harold W. Conner, ST3:Mar 70:637:7168

Kabaila, A. P.
See Robert F. Warner, ST12:Dec 68:2847:6275

Kadib, Abdel-Latif A.
Rate of Sediment Motion Using Fluorescent Tracer, CE13:72:II-985

Kagan, Harvey A.
Elasto-Plastic Analysis of Ribbed Plates, with G. G. Kubo, ST4:Apr 68:943:5892
  Dsc: George R. Buchanan, ST2:Feb 69:279:6373
  Clo: ST10:Oct 69:2319:6803
  TR:135:535
Dsc, ST7:July 70:1614:7386, of "Field Tests of Aluminum Orthotropic Bridge Deck", ST11:Nov 69:2463:6920

Kahan, Jeanine M.
See Marvin C. Gersten, CE:July 70:68

Kahle, Richard L.
See Ralph Stone, SA5:Oct 72:731:9250

Kahn, Lawrence F.
See Harvey H. Haynes, CEO-II:70:999
See Harvey H. Haynes, ST4:Apr 71:1283:8078

Kahn & Jacobs
Finland House, TB:73:C-P-350
One Astor Plaza, TB:73:C-P-348

Kai, Toshio
Dsc, with Koichiro Okuto, ST9:Sept 74:1954:10772, of "How Safe are Your Poles?", ST7:July 73:1333:9848.

Kaiser, Charles B., Jr.
Regional Waste Water System, CWFE:Mar 71:57

Kajfasz, Stanislaw
External Blast, TB:73:Ib-8-717
Interaction Approach in Poland, TB:73:Ia-12-1149

Kalajian, Edward H.
See Stanley M. Bemben, CEO-II:70:117

Kaldjian, Movses J.
Earthquake Response of a Ramberg-Osgood Structure, with William R.S. Fan, ST10:Oct 68:2451:6196
  TR:136:656
Torsional Stiffness of Embedded Footings, SM7:July 71:969:8241
  TR:137:987
Dsc, SM1:Jan 69:6324, of " Design Procedures for Dynamically Loaded Foundations", SM6:Nov 67:169:5569

Kalevras, Vladimir C.
Dsc, ST6:June 74:1319:10569, of "Full-Range Analysis of Concrete Frames", ST8:Aug 73:1761:9934

Kalinoski, Joseph J.
See Dalim K. Majumdar, SM1:Jan 70:307:6989

Kalinske, Anton A.
Dsc, SA5:Oct 71:792:8409, of "Physical Behavior of Flocculent Suspensions in Upflow", SA2:Apr 71:209:8054
Dsc, HY11:Nov 72:2049:9305, of "Laboratory Study of Transport of Fine Sand", HY3:Mar 72:489:8765

Kaliszky, Sandor
Dsc, EM4:Aug 71:1299:8266, of "Optimum Design of Reinforced Concrete Tanks", EM6:Dec 70:1093:7739

Kalkwijk, J. P. Th.
Cavitation in Horizontal Pipelines Due to Water Hammer, with C. Kranenburg, HY10:Oct 71:1585:8440
  Dsc: C. B. Vreugdenhil and A. H. De Vries, HY9:Sept 72:1723:9156; Trichinopoly K. Ramakrishnan, HY10:Oct 72:1876:9222
  Clo: HY3:Mar 73:529:9580
  TR:138:32

Kallina, Carl T.
Responsibility of Gas Utilities for Pipeline Safety, TE2:May 72:341:8883
  Errata: TE2:May 73:425:9691
  TR:138:148

Kally, Elisha
Dsc, HY5:May 73:857:9689, of "Hydraulic Network Analysis Using Linear Theory", HY7:July 72:1157:9031

Kamalvand, Hassan
See Le-Wu Lu, ST6:June 68:1505:6009

Kamaraj, L. K.
See A. R. Santhakumar, EM3:June 70:370:7309

Kamath, C. M.
Dsc, ST4:Apr 74:821:10442, of "Fire Resistance of Unprotected Steel Columns", ST5:May 73:837:9719

Kamei, Toshio
See Sansei Miki, TB:73:Ib-9-817

Kamel, Adel M.
Flushing Pattern of Non-reactive Effluents, 12CEC:71:1867
Laboratory Study for Design of Tsunami Barrier, WW4:Nov 70:767:7669
  TR:137:846
Shock Pressure on Coastal Structures, WW3:Aug 70:689:7487
  Dsc: J. Richard Weggel, WW3:Aug 71:584:8272
  Clo: WW2:May 72:266:8863
  TR:137:763
Dsc, WW2:May 69:255:6528, of "Effects of Water Temperature on Bed-Load Movement", WW3:Aug 68:343:6083
Dsc, WW3:Aug 69:425:6709, of "Large Area Wave-Load Meter", WW4:Nov 68:415:6209
Dsc, WW4:Nov 69:588:6869, of "Characteristics of Open Tube Wave Attenuation System", WW4:Nov 68:465:6234
Dsc, WW2:May 70:570:7252, of "Damage Function of Rubble-Mound Breakwaters", WW3:Aug 69:345:6743
Dsc, WW2:Mar 71:433:8086, of "Numerical Model for Wave Pressure Distributions", WW3:Aug 70:623:7467

Kameswara Rao, C. V.S.
Dsc, with Jawalker K. Sridhar Rao, ST12:Dec 69:2990:6932, of "Load Carrying Capacity of Simple Composite Columns", ST2:Feb 69:209:6412
Dsc, with Jawalker K. Sridhar Rao, EM2:Apr 70:169:7188, of "Fracture Mechanism in Concrete: How Much do We Know?", EM3:June 69:531:6604
See Jawalker K. Sridhar Rao, EM6:Dec 71:1750:8551

Kameswara Rao, N. S.V.
Bearing Capacity Factors for Inclined Loads, with S. Krishnamurthy, TN: SM11:Nov 72:1286:9312
Stresses at Different Depths Below Loaded Area, with M. R. Maohav, TN: SM2:Mar 70:779:7117
Variational Approach to Beams on Elastic Foundations, with Y. C. Das and M. Anandakrishnan, EM2:Apr 71:271:8034
  Errata: EM1:Feb 72:264:8680
  TR:137:550
Dsc, SM3:May 70:1055:7249, of "Euler Beams on a Two Parameter Foundation Model", SM4:July 69:933:6651
See Madhira Radha Madhav, TN: SM1:Jan 71:295:7787

Kaming, Joseph
Legal Aspects of Architecture, Engineering, and Construction Process, by Justin Sweet (Book Review), CE:Mar 71:10

Kamperman, George W.
See James E. Shahan, TE2:May 73:307:9726

Kamphuis, J. William
Impulse Waves Generated by Landslides, with R. J. Bowering, 12CEC:71:575
Mathematical Tidal Study of St. Lawrence River, HY3:Mar 70:643:7141
  TR:136:624
Scale Selection for Mobile Bed Wave Models, CE13:72:II-1173
Short Wave Models with Fixed Bed Boundary Layer, WW4:Nov 73:471:10122
  Errata: WW2:May 74:167:10509
  TR:139:482
Dsc, WW4:Nov 69:600:6869, of "Breaker Travel and Choice of Design Wave Height", WW2:May 69:175:6569
Dsc, HY5:May 71:761:8081, of "Implicit Flood Routing in Natural Channels", HY12:Dec 70:2481:7773
See Mehmet Selim Yalin, 12CEC:71:625
See H. P. Riedel, CE13:72:I-587
See Geoffrey R. Mogridge, CE13:72:II-1123
See M. J. Paul, CE13:72:II-1217

Kanaan, George E.
Recreational Demand at Lakes and Reservoirs, with Harold J. Day, TN: CE2:Sept 73:265:9969

Kanafani, Adib K.
Location Model for Parking Facilities, TE1:Feb 72:117:8705
  Errata: TE3:Aug 72:737:9080
  TR:138:54

Kandasamy, E. G.
See Jehangir F. Mirza, TN: ST12:Dec 72:2831:9400

Kaninowski, A. J.
Out-of-Plane Buckling of Crane Booms, with Anatole Longinow, TN: ST10:Oct 70:2261:7572

Kao, Jao-shiun
Bending of Two-Layer Sandwich Plates, TN: EM2:Apr 70:201:7193
Circular Sandwich Plates Under Eccentric Load, EM1:Feb 69:235:6413
  TR:135:168

Kao, Kwan H.
See Barry J. Vickery, ST1:Jan 72:21:8635

Kao, Teh-Yuh
Hydraulic Jump Assisted by Cross-Jet, HY12:Dec 71:2037:8614
  Dsc: Richard A. Hartman and Joseph R. Reed, HY9:Sept 72:1729:9156; Edward H. Wilson, HY12:Dec 72:2232:9391
  Clo: HY7:July 73:1151:9823
  TR:139:11
Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, with Daniel L Shoemaker, HYB:Aug 73:349

Kao, Timothy W.
Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, with H. P. Pao and S. N. Wei, ISSF:Aug 72:581
Dsc, HY4:Apr 70:1068:7189, of "Selective Withdrawal from Density-Stratified Reservoirs", HY4:July 69:1369:6702

Kaplan, Michel
Computation of Oil Pipeline Transients, with Victor L. Streeter and E. Benjamin Wylie, PL3:Nov 67:59:5608
  Dsc: T. L. Stewart, TE2:May 69:391:6527
  Clo: TE1:Feb 70:113:7048
  TR:135:723

Kapoor, Mahesh P.
See Mahadevan Hariharan, ST7:July 73:1661:9826
See Amitabha Ghosal, CO4:Dec 74:631:11034

Kapoor, Surinder K.
Emergency Water Disinfection Practice, with John T. O'Connor, NSCD:71:179

Kapp, Martin S.
Martin Kapp dies, CE:Nov 72:84
Slurry-Trench Construction for Basement of World Trade Center, CE:Apr 69:36
  TR:135:332

Kappe, Stanley E.
Dialogue--Is Water Quality Enhancement Feasible?, WQEF:Mar 70:3

Kapur, Kanwar K.
Generation of Seismic Floor Response Spectra for Equipment Design, with Lawrence C. Shao, SDNPF:Dec 73:29
See Nathan M. Newmark, PO2:Nov 73:287:10142

Kapur, V. K.
See Jawalker K. Sridhar Rao, EM6:Dec 71:1750:8551

Kar, Anil K.
Convergence in Highly Nonlinear Cable Net Problems, with Clyde Okazaki, ST3:Mar 73:321:9601
  TR:139:244
Design of Containment Base Mats, SDNPF:Dec 73:323
Dsc, ST11:Nov 73:2327:10113, of "Large Displacement Analysis of Thin Plates", ST3:Mar 73:349:9593
Dsc, ST11:Nov 73:2330:10113, of "Concrete T-Beams Subject to Combined Loading", ST4:Apr 73:687:9655
Dsc, ST11:Nov 73:2331:10113, of "Stability of Guyed Towers", ST4:Apr 73:741:9683
Dsc, CE:Mar 74:24, on Expansive Soils -- the Hidden Disaster, CE:Aug 73:49
Dsc, ST4:Apr 74:828:10442, of "Solution of Linear Equations--State-of-the-Art", ST7:July 73:1507:9861
Dsc, ST7:July 74:1533:10637, of "Shells for Standard Floor and Roof Elements", ST10:Oct 73:1999:10096

Kar, Jitendra N.
Strength of Fiber-Reinforced Concrete, with Anil K. Pal, ST5:May 72:1053:8909
  Dsc: Ganpat S. Pandit, ST4:Apr 73:793:9640
  Errata: ST9:Sept 72:2134:9159
  Clo: ST11:Nov 73:2309:10113
  TR:139:63

Kar, Lakshmidhar
See Parambakatoor R. Perumalswami, EM5:Oct 73:965:10060

Kar, Subir
See U. N. Chindarkar, IR4:Dec 68:523:6261

Karadi, Gabor M.
Dsc, IR1:Mar 68:158:5826, of "Falling Water Table Between Tile Drains", IR2:June 67:9:5258
Dsc, with Raymond J. Krizek, HY6:Nov 68:1546:6200, of "Steady and Unsteady Flow Towards Gravity Wells", HY6:Nov 67:135:5581
See Raymond J. Krizek, HY10:Oct 71:1625:8436
See Antonio Santos-Moreno, EM1:Feb 72:141:8738
See Imre Gyuk, EM1:Feb 72:211:8737

Karafiath, Leslie L.
Shape Factors In Bearing Capacity Equation, TN: SM4:July 70:1493:7387
Dsc, SM6:Nov 69:1572:6894, of "Theoretical Bearing Capacity of Very Shallow Footings", SM6:Nov 68:1347:6258
Dsc, SM6:Nov 70:2146:7643, of "Bearing Capacity of Foundation on Sand", SM2:Mar 70:545:7158

Karaki, Susumu
See Hsieh W. Shen, HY6:Nov 69:1919:6891
See Philip H. Burgi, IR1:Mar 71:59:7968

Karara, Houssam M.
See Dennis E. Moellman, SU2:Sept 68:211:6106

Karasudhi, Pasidhi
See Kasem Chantaramungkorn, TN: ST1:Jan 73:234:9464

Karbs, Harlan H.
See Mohamed Abdel-Hady, IR3:Sept 71:355:8360

Karcz, Iaakov
Decrease in Scour Rate of Fresh Deposited Muds, with Gonapathy Shanmugam, TN: HY11:Nov 74:1735:10923

Kardestuncer, Hayrettin
Stiffness Center Method, ST7:July 74:1421:10673
Dsc, ST4:Apr 74:826:10442, of "Evaluation of Computer Charging Policies", ST7:July 73:1423:9849

Kariots, John C.
Dsc, CE:Sept 74:36, on Designing Energy-Conserving Buildings, CE:Apr 74:54

Karki, Karam S.
Supercritical Flow Over Sills at Incipient Jump Conditions, with Subhash Chander, HY10:Oct 72:1753:9235
  Dsc: Valupadas Mura Hari, HY8:Aug 73:1280:9895
  Clo: HY3:Mar 74:481:10379
  TR:139:109

Karlsrud, Kjell
See Robert V. Whitman, SM1:Jan 71:1:7809

Karlsson, Inge
See Lennart Elfgren, ST2:Feb 71:729:7867
See Lennart Elfgren, ST3:Mar 71:995:7944
See Lennart Elfgren, ST8:Aug 74:1657:10749

Karlsson, Thorbjorn
Refraction of Continuous Ocean Wave Spectra, WW4:Nov 69:437:6881
  TR:136:206

Karman, Tamas
Load Factors, State-of-Art Report 3, TB:73:III-26-901

Karmeli, David
Basic Principles of Pulse Irrigation, with Gideon Peri, IR3:Sept 74:309:10831
Design of Optimal "Water Distribution Networks, with Y. Gadish and S. Meyers, PL1:Oct 68:1:6130
  TR:136:589

Karnitz, Michael A.
See Michael A. Stoner, TE3:Aug 74:757:10762

Karol, Reuben H.
Chemical Grouting Technology, SM1:Jan 68:175:5748
  Dsc: James Warner, SM1:Jan 69:429:6324
  Clo: SM5:Sept 69:1272:6754
  TR:135:670

Karp, Julian
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, TB:73:III-25-793

Karrer, Emmett H.
Continuing Education for the Contractor Owner, CEE:Feb 74:1-858

Karrholm, Gunnar
Stresses in Walls Due to Vertical Loads, with Hans Petersson, TB:73:III-21-302

Karsan, I. Demir
Behavior of Concrete under Compressive Loadings, with James O. Jirsa, ST12:Dec 69:2543:6935
Dsc: Satyendra K. Ghosh, ST6:June 70:1254:7314; Warayana K. Raju, ST7:July 70:1618:7386; Sushil Chandra, ST8:Aug 70:1827:7442; Ganpat S. Pandit, ST9:Sept 70:1970:7567
TR:136:390
Behavior of Concrete Under Varying Strain Gradients, with James O. Jirsa, ST8:Aug 70:1675:7484
Dsc: Zdenek P. Bazant, ST12:Dec 70:2682:7714; Satyendra K. Ghosh, ST5:May 71:1644:8084
Clo: ST12:Dec 71:2888:8557
TR:137:123

Kartha, Viswanathan C.
Distribution of Tractive Force in Open Channels, with Hans J. Leutheusser, HY7:July 70:1469:7415
Dsc: Hubert J. Tracy, HY11:Nov 70:2399:7641; R. Smutek, HY4:Apr 71:614:8012; K. G. Ranga Raju and A. P. Bahadur, HY5:May 71:738:8081
Clo: HY11:Nov 71:1898:8483
TR:137:83
See Hans J. Leutheusser, HY8:Aug 72:1367:9088

Karwoski, W.
Roof Movement Due to Increasing Roof Span in an Underground Opening -- Abstract, with Raghbir S. Sandhu and R. Singh, RM14:73:752

Kasemset, Chesada
Inelastic Stability of Beams under Biaxial Bending, with Fumio Nishino and Seng-Lip Lee, EM5:Oct 74:965:10881

Kashef, Abdel-Aziz I.
Seepage Towards Highway Cuts, TE4:Nov 69:667:6912
Errata: TE4:Nov 70:654:7642
TR:136:292
Dsc, HY5:Sept 68:1360:6087, of "Steady and Unsteady Flow Towards Gravity Wells", HY6:Nov 67:135:5581
Dsc, with Ray T. Whiteaker, SM12:Dec 72:1429:9394, of "Subsurface Investigation for Design and Construction of Buildings: Part II", SM6:June 72:557:8944
Dsc, with J. C. Smith, HY3:Mar 74:485:10379, of "Transient Flow to Finite Well in Unconfined Aquifer", HY3:Mar 73:485:9611

Kashiwamura, Masakazu
Flow Pattern at a River Mouth, with Shizuo Yoshida, ISSF:Aug 72:589

Kashmeeri, Nouri A.
See Donald H. Gray, SM1:Jan 71:193:7857

Kasinski, Jerzy
Dsc, ST8:Aug 74:10697, of "Structural Risk Analysis and Reliability-Based Design", ST9:Sept 73:1891:10011

Kasiraj, Iyadurai
Fatigue Damage in Seismic Structures, with James T. P. Yao, ST8:Aug 69:1673:6727
Errata: ST7:July 70:1597:7386
TR:135:285
Fatigue Failure of Nonlinear Multistory Seismic Structure, ST3:Mar 72:655:8792
Dsc: Mubadda T. Suidan, ST10:Oct 72:2324:9227
Clo: ST12:Dec 72:2827:9395
TR:138:194

Kasper, Eugene R.
Runway Overlay Applied Overnight at Toledo Airport, CE:Aug 69:58
TR:135:618

Kassawara, R. P.
Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, with D. A. Peck, SDNPF:Dec 73:73

Kassiff, Gabriel
Aging Effects on Swell Potential of Compacted Clays, with Raphael Baker, SM3:Mar 71:529:7951
Dsc: Robert C. Davis, SM9:Sept 71:1348:8347; Elias Zolkov, SM9:Sept 71:1349:8347; Venkatraman Srinivasan and James V. Parcher, SM10:Oct 71:1504:8410; Narayan Nayak, SM10:Oct 71:1507:8410; Kolinjuvadi S. Sankaran and D. Venkateshwar Rao, SM12:Dec 71:1714:8556
Clo: SM7:July 72:767:9002
TR:137:620

Kassim, P.
See P. Suryaprakasa Rao, 12CEC:71:1365

Kassir, Mumtaz K.
Boussinesq Problems for Nonhomogeneous Solid, EM2:Apr 72:457:8847
TR:138:236
See Manoon Chuaprasert, EM4:Aug 73:703:9948
See Manoon F. Chuaprasert, EM5:Oct 74:861:10868

Kastenholz, Daniel A.
Milwaukee Installs Concrete Median Barriers, CE:July 73:88
TR:139:329

Kastman, Kenneth H.
Analyses and Records -- Dutch Hollow Dam, PES:72:I-285

Kastner, S.
Dsc, BMS:71:139, of "Physical Model of the Moored Ship as an Oscillating System", BMS:71:53

Katakura, Fredric T.
See Ernest C. James, PO4:Dec 71:876:8551

Katibah, George P.
Construction Control by Programmetric Methods, SU1:Oct 69:1:6809
TR:136:1084

Kato, Ben
Analysis of T-Stub Flange-to-Column Connections, with William McGuire, ST5:May 73:865:9725
Errata: ST3:Mar 74:709:10381
TR:139:322
Inelastic Bar Subjected To Thrust and Cyclic Bending, with Hiroshi Akiyama, ST1:Jan 69:33:6335
Errata: ST1:Jan 70:137:6990
TR:135:915
Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, with Le-Wu Lu, TB:73:II-16-463
Optimum Earthquake Design of Shear Buildings, with Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
Errata: EM3:June 73:601:9759
TR:139:68
See Minoru Wakabayashi, TB:73:II-16-525

Kato, Juichi
Damping Effect of Floating Breakwater, with Thoshifumi Noma, Yukio Uekita and Seiya Hagino, WW3:Aug 69:337:6733
TR:135:294

Katoh, Junkichi
Systematic Stress Analysis of Circular Pipe, TE4:Nov 72:1039:9386
  Errata: TE4:Nov 73:962:10110
  TR:139:117

Katona, Michael G.
See Jay R. Allgood, ST10:Oct 74:2152:10834

Katow, Takeyuki
Dsc, ST8:Aug 70:1846:7442, of "Residual Stresses in Curved Laminated Wood Beams", ST12:Dec 69:2873:6977

Katti, Ramanath K.
Dsc, with Trimbak V. Pavate, GT8:Aug 74:953:10695, of "Numerical Analysis of Electro-Osmotic Flow in Soils", SM8:Aug 73:603:9912

Katz, Edward L.
See Benjamin H. Pringle, SA3:June 68:455:5970

Katzer, Melvin F.
Control of Turbidity at Construction Sites, ECCD:72:353

Kaufman, Matthew I.
Subsurface Wastewater Injection, Florida, IR1:Mar 73:53:9598
  TR:139:216

Kaufman, Warren J.
See Yerachmiel Argaman, SA2:Apr 70:223:7201
See Denny S. Parker, SA1:Feb 72:79:8702

Kaul, Maharaj K.
Stochastic Seismic Analysis of Yielding Offshore Towers, with Joseph Penzien, EM5:Oct 74:1025:10884

Kausel, E.
Soil Structure Interaction Problems for Nuclear Containment Structures, with Jose M. Roesset, EPCE:Aug 74:469

Kavanagh, Thomas C.
The Baseball Diamond -- A Gridiron's Best Friend, CEWAU:74:81
Civil Engineering Education - Goals and Policy: The Practicing Engineer's Viewpoint, CEE:Feb 74:2-262
Criteria and Loading, Preface, TB:73:Ib-1
A Crtical Review of ASCE's Planning and Policy Process, EI4:Oct 74:343:10890
Engineering 1972-A Review, PP3:July 73:287:9889
  Errata: EI3:July 74:258:10633
  TR:139:444
Environmental Systems, Theme Report, TB:73:Ia-1-7
Tall Buildings--A Technological Assessment, PP1:Oct 71:111:8476
  Dsc: Lynn S. Beedle, PP1:Jan 72:145:8621
  TR:138:54
Dsc, PP1:Oct 71:75:8408, of "Systems Approach and the Civil Engineer", PP1:Oct 71:65:8457
Dsc, ST7:July 73:1669:9826, of "Historical Development of Cable-Stayed Bridges", ST9:Sept 72:2079:9201
Dsc, ST4:Apr 74:829:10442, of "Deck-Stiffened Arch Bridges of Robert Maillert", ST7:July 73:1527:9862

Kavanaugh, Michael C.
Is Technology Relevant?, CE:Oct 70:44
  Dsc: Is Kavanaugh Relevant?, Bob Persons, CE: Feb 71:66; Kurt V. Leininger, CE:Mar 71:56
  TR:136:872
See Albert M. Wright, SA2:Apr 70:620:7190

Kavlie, Dag
Automated Design of Frame Structures, with Johannes Moe, ST1:Jan 71:33:7823
  TR:137:294
Automated Design Of Statically Indeterminate Frames, with Johannes Moe, EC5:70:27
Efficient Reanalysis of Modified Structurei, with Graham H. Powell, ST1:Jan 71:377:7846
  Dsc: Nils-Erik Wiberg, ST10:Oct 71:2612:8411
  TR:137:865

Kavyrchine, Michel
Experimental Results of Joint Tests, TB:73:III-21-323
Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, TB:73:Ia-3-415

Kawagoe, Kunio
System Design for Fire Safety, State-of-Art Report 5A, TB:73:Ib-8-569

Kawal, Donald E.
Information Utilization in Project Planning, CO2:Nov 71:227:8505
  TR:137:1039

Kawamura, Mitsunori
Dsc, SM7:July 73:578:9825, of "Viscoelastic Shrinkage Stress in Soil-Cement Base", SM12:Dec 72:1375:9454

Kawata, Kazuyoshi
f_2 Coliphage as Tracer in Wastewater Basin, with Vincent P. Olivieri, TN: EE6:Dec 74:1307:10978
Dsc, SA6:Dec 72:1047:9393, of "Master Sewerage System for Metropolitan Manila", SA1:Feb 72:125:8712
See Vincent P. Olivieri, NSCD:71:365
See Vincent P. Olivieri, SA5:Oct 71:661:8419

Kawata, Yoshiaki
See Yoshito Tsuchiya, CE13:72:II-1617

Kawecki, Janus
See Roman Ciesielski, TB:73:Ia-11-999

Kay, J. Neil
Nomograph for Bearing Capacity, TN: SM1:Jan 71:301:7787

Kay, Stephen
See Ian M. Smith, SM7:July 71:981:8263

Kazmann, Raphael G.
Exotic Uses of Aquifers, IR3:Sept 71:515:8352
  Dsc: Melvin W. Jackson, IR1:Mar 72:169:8750
  Clo: IR4:Dec 72:603:9392
  TR:137:956
Exotic Uses Of Aquifers (and their impact on groundwater basin management), SEA:70:295
Management of Waste Fluids in Salaquifers, with Oscar K. Kimbler and Walter R. Whitehead, IR4:Dec 74:413:10991
Dsc, IR3:Sept 71:535:8346, of "Optimal Allocation of Stochastic Water Supply", IR4:Dec 70:395:7718
Dsc, PP4:Oct 72:732:9224, of "Integrity and the Ecological Crisis", PP1:Jan 72:25:8677
Dsc, IR2:June 73:192:9761, of "General Statement of Principles to be Included in State Water Rights Laws", IR2:June 72:317:8996
Dsc, PO2:Nov 73:437:10111, of "Tarbela Dam Project, Pakistan", PO2:Oct 72:221:9265
Dsc, CE:Dec 73:22, on Environmental Quality in California, CE:July 73:50
Dsc, HY9:Sept 74:1298:10770, of "Hydrodynamical Stability of Salt Wedge", HY1:Jan 74:17:10276
See Ottoniel Arguello, IR4:Dec 73:441:10212

Kealy, C. Daniel
See Howard C. Pettibone, SM9:Sept 71:1207:8382
See William G. Pariseau, RM14:73:501

Keating, William H.
Dsc, PWS:Nov 72:68, of "Recycling of Land Resources", PWS:Nov 72:57

Keck, Henry E.
Wave Propagation in Transversely Isotropic, Layered Cylinders, with Anthony E. Armenakas, EM2:Apr 71:541:8071
  TR:137:592

Kee, Chin Fung
Dsc, SM3:May 68:798:5922, of "Applications of Limit Plasticity in Soil Mechanics", SM5:Sept 67:101:5424
Dsc, SM2:Mar 69:679:6429, of "Electrical Dispersion in Relation to Soil Structure", SM2:Mar 68:447:5853

Keefe, James M.
Relocation Assistance Programs, PP1:Jan 73:101:9504
  TR:139:163

Keefer, Thomas N.
Desktop Computer Flow Routing, HY7:July 74:1047:10669
Multiple Linearization Flow Routing Model, with Raul S. McQuivey, HY7:July 74:1031:10668
See Raul S. McQuivey, HY9:Sept 72:1625:9184
See Mostafa A. Shirazi, HY7:July 74:919:10661
See Raul S. McQuivey, EE4:Aug 74:997:10708
See Raul S. McQuivey, HY10:Oct 74:1502:10839

Keenan, John D.
Response of *Anabaena* to pH, Carbon, and Phosphorus, EE5:Oct 73:607:10048
  TR:139:370

Keene, Don F.
Precise Dam Surveys—Los Angeles County Flood Control District, SU2:Nov 74:99:10925

Keene, Philip
Dsc, SM11:Nov 73:1026:10112, of "Coefficient of Secondary Compression", SM1:Jan 73:123:9515

Keener, Donald F.
Managerial Functions; Responsibilities, and the Team Approach, EPMT:73:9

Keer, Leon M.
See Richard A. Parmelee, EM6:Dec 68:1295:6264
See Manuel A. G. Silva, EM3:June 71:1007:8220
See Manuel A.G. Silva, ST8:Aug 71:2073:8319
See Kraiwood Kiattikomol, EM2:Apr 74:433:10486
See John Dundurs, EM2:Apr 74:445:10485

Keevil, Albert S.
Systems View of Professional Engineering, PP1:July 69:55:6689
  TR:135:226
Dsc, CO2:Sept 67:112:5407, of "Bidding Stratagies and Probabilities", CO1:Mar 67:75:5159

Kehnemuyi, Muzaffer
Foundations for Salem Nuclear Generating Station, CE:May 70:52
  TR:136:412

Kehrberger, George J.
Dsc, EE3:June 73:381:9758, of "Oxygen Theory in Biological Treatment Plant Design", SA3:June 72:471:8938
Dsc, EE3:June 74:765:10564, of "Substrate Removal Mechanism of Trickling Filters", EE3:June 73:187:9769

Keim, Paul F.
Dsc, IR1:Mar 69:258:6428, of "Management: A Key to Irrigation Efficiency", IR3:Sept 68:285:6107
Dsc, IR2:June 69:357:6581, of "Future Irrigation Demand in the Susquehanna Basin", IR4:Dec 68:391:6278
Dsc, IR2:June 69:358:6581, of "Interdistrict Apportionment of Flood Control Costs", IR4:Dec 68:441:6298
Dsc, CO1:July 69:137:6640, of "Construction Personnel Management", CO1:Jan 68:95:5765
Dsc, IR3:Sept 69:443:6753, of "Competition for Recreation Water in California", IR3:Sept 68:295:6109
Dsc, HY6:Nov 69:2165:6866, of "Sedimentation Engineering, Chapter VI: Economic Aspects of Sedimentation", HY1:Jan 69:191:6334
Dsc, TE4:Nov 69:696:6868, of "Private Engineering in Public Works", TE1:Feb 69:67:6396
Dsc, SM1:Jan 70:355:6989, of "Dynamic Prediction of Pile Static Bearing Capacity", SM2:Mar 69:583:6468
Dsc, UP1:Mar 70:97:7119, of "Water Resources as an Element of Urban Planning", UP1:Aug 68:1:6056

Keiner, Edward P., Jr.
Insulated and Improved Sub-grades for Eliminating Frost Heave, CE:Feb 69:38
  TR:135:64

Keir, Gordon
Pressure Fluctuations on Submerged Sluice Gate, with Tharakkal E. Unny and Harry M. Hill, HY4:Nov 69:1781:6875
  Dsc: Frank R. Schiebe, HY5:May 70:1222:7248
  Clo: HY2:Feb 71:340:7863
  TR:136:254

Keith, James M.
Harbor Study for San Nicolas Bay, Peru, with Emmett J. Murphy, 12CEC:71:2195
See Joseph P. Nicoletti, CE:Apr 69:72

Kelcey, Guy
Noted Traffic Engineer Dies, CE:Nov 73:86

Kelkar, Vasant S.
Dsc, ST11:Nov 73:2322:10113, of "Symmetry in Structural Mechanics", ST1:Jan 73:71:9475

Keller, George H.
Engineering Properties of Some Sea-Floor Deposits, SM6:Nov 69:1379:6907
  TR:136:289
Mass Properties Of The Sea Floor In A Selected Depositional Environment, CEO-II:70:857

Keller, George V.
Engineering Applications of Electrical Geophysical Methods, EFSE:Aug 74:128

Keller, Robert J.
Developing Region in Self-Aerated Flows, with K. K. Lai and Ian R. Wood, HY4:Apr 74:553:10501
  Dsc: Krishnamurthy Gopalakrishnan, HY11:Nov 74:1729:10898

Kellerhals, Rolf
Runoff Routing Through Steep Natural Channels, HY11:Nov 70:2201:7666
  TR:136:1278
Sampling Procedures for Coarse Fluvial Sediments, with Dale I. Bray, HY8:Aug 71:1165:8279
  Dsc: Charles R. Neill, HY1:Jan 72:303:8620; Andrew M. Torrance and George H. Caddie, HY5:May 72:960:8859
  Clo: HY1:Jan 73:266:9459
  TR:137:1023
Dsc, HY4:Apr 70:1056:7189, of "Friction-Factors for Flat-Bed Flows in Sand Channels", HY4:July 69:1227:6678
See W. L. Grigg, PO2:Oct 67:1:5482

Kellogg, Frederic H.
Dsc, SM1:Jan 69:337:6324, of "Progressive Failure in Slopes of Overconsolidated Plastic Clay and Clay Shales", SM5:Sept 67:1:5456

Kellogg, Joseph C.
Planning and Estimating Underground Construction, by Albert D. Parker (Book Review), CE:July 71:22
A Profile of the Future Construction System, CO1:Mar 71:147:7938
  Dsc: John D. Bristor, CO1:Mar 72:133:8748; Robert A. May, CO1:Mar 72:134:8748
  TR:137:886

Kelly, A. Roger
Dsc, TE3:Aug 73:689:9896, of "The Trans-Alaska Pipeline Story", TE1:Feb 73:139:9573

Kelly, Benjamin I., Jr.
See Paul R. Fisher, EFFD:Mar 74:121

Kelly, R. E.
See Subhash C. Mehrotra, ISSF:Aug 72:603

Kelly, Roland P.
Dsc, with Jerome O. Stetson, SA3:June 69:679:6582, of "Hudson River as a Water Source for New York City", SA3:June 68:447:5967

Kelly, William E.
Carbonate Cementation in Deep-Ocean Sediments, with Vito A. Nacci, Mian C. Wang and Kenneth R. Demars, TN: GT3:Mar 74:383:10420
A Monte Carlo Approach to Seepage in Jointed Rock, RM13:72:227
Dsc, SM5:May 72:510:8860, of "Consolidation at Constant Rate of Strain", SM10:Oct 71:1393:8447
Dsc, SM7:July 73:571:9825, of "In Situ Creep Analysis of Room in Frozen Soil", SM9:Sept 72: 899:9202
Dsc, SM8:Aug 73:641:9892, of "Coefficient of Secondary Compression", SM1:Jan 73:123:9515
Dsc, SU1:Sept 73:141:9965, of "Elevation Changes Due to Tides, Long Beach, Calif.", SU2:Nov 72: 137:9315
Dsc, GT3:Mar 74:373:10378, of "Probabilistic Analysis of Seepage", SM4:Apr 73:323:9687

Kelnhofer, Guy J., Jr.
Regional Water Resources Planning: A State View, UWRM:71:111

Kelso, Maurice M.
See William E. Martin, IR4:Dec 69:611:6930

Kemp, E. Burton
Emergency Grouting of Old River Low Sill Structure, La., EFFD:Mar 74:371

Kemp, Emory L.
Commentary on Structural Standards, Summary Report, TB:73:III-20-139
Ellet's Contribution to the Development of Suspension Bridges, PP3:July 73:331:9872
Dsc: H. J. Hopkins, EI3:July 74:254:10633
TR:139:316
Industrial Archaeology - An Avocation for Engineers, PP4:Oct 73:481:10087
TR:139:506
"Report of the Mohawk-Hudson Area Survey" ed. by R. M. Vogel (Book Review), CE:May 74:31

Kemp, Patrick H.
Beaches Produced by Waves of Low Phase Difference, with David Plinston, HY5:Sept 68:1183: 6100
Dsc: T. R. Chandrasekhara and S. Muddappa, HY4:July 69:1470:6641
Clo: HY5:May 70:1197:7248
TR:136:631
See Philip B. Williams, HY4:Apr 71:505:8042
See Philip B. Williams, HY6:June 72:1057:8952

Kenmir, Russell Collingwood
Memoir of, TR:135:1131

Kennedy, Bruce A.
Some Methods of Monitoring Open Pit Sludge, RM13:72:537

Kennedy, D. J. Laurie
High Strength Bolted Galvanized Joints, ST12:Dec 72:2723:9410
Errata: ST10:Oct 73:2212:10039
TR:139:164
See Y. W. Leung, ST12:Dec 71:2900:8557
See Mohammed H. Magued, ST5:May 74:983:10551

Kennedy, Donald A.
Indoor Territoriality: An Anthropological Perspective, ABS:71:37

Kennedy, J. Stewart
Effect of Weight on Large Deflections of Arches, with Anand S. Aggarwal, EM3:June 71:637:8165
Dsc: Donald A. DaDeppo and Robert Schmidt, EM1:Feb 72:273:8680
TR:137:978

Kennedy, John B.
Buckling of Steel Angle and Tee Struts, with Madugula K.S. Murty, ST11:Nov 72:2507:9348
Errata: ST9:Sept 73:1958:9964
TR:139:147
Ultimate Capacity of Single Bolted Angle Connections, with George R. Sinclair, ST8:Aug 69: 1645:6721
Clo: ST7:July 70:1596:7386
TR:135:249
Dsc, ST2:Feb 72:527:8684, of "Study of Suspended Roof Model", ST6:June 71:1671:8168
See Satish Jain, ST3:Mar 74:631:10409

Kennedy, John F.
River-Ice Problems: A State-of-the-Art Survey and Assessment of Research Needs, with George D Ashton, HY1:Jan 74:1:10281
Turbulent Flows Past Boundaries with Small Streamwise Flows, with Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664
Errata: HY3:Mar 74:491:10379
TR:139:261
See Yoshiaki Iwasa, HY2:Mar 68:431:5856
See P. K. Bahattacharya, HY1:Jan 69:6323
See Frederico Lovera, HY4:July 69:1227:6678
See Abu M.Z. Alam, HY6:Nov 69:1973:6900
See George D. Ashton, HY9:Sept 72:1603:9191
See Mehmet S. Uzuner, HY12:Dec 72:2117:9418
See Krishnamurthy Gopalakrishnan, HY2:Feb 73:378: 9523
See Poothrikka P. Paily, HY4:Apr 74:531:10479

Kennedy, Michael
See Frederick J. Wegmann, TE3:Aug 74:643:10728

Kennedy, Thomas W.
See William Ronald Hudson, TE2:May 73:235:9722

Kennedy, William D
See Thomas E. Hoover, TE1:Feb 73:53:9518

Kent, Dudley Charles
Flexural Members with Confined Concrete, with Robert Park, ST7:July 71:1969:8243
Dsc: Eric K. Ghosh, ST1:Jan 72:387:8623; B. Vijaya Rangan, ST2:Feb 72:532:8684; Kashi T. Krishnaswamy, Sakharam V. Sharpure and Ashak B. Kulkarni, ST2:Feb 72:533:8684; Ganpat S. Pandit, ST3:Mar 72:774:8752; Cheng-Tzu Hsu and M. Saeed Mirza, ST4:Apr 72:937: 8802; V. Malakonda Reddy, K. Nagi Reddy and S. Ramaswamy Reddy, ST5:May 72:1191:8861
Clo: ST12:Dec 72:2805:9395
TR:137:990
See Robert Park, ST7:July 72:1341:9011

Kent, Theodore A.
Framework Plan for Ohio Basin Navigation to 2020, WW3:Aug 70:665:7473
Dsc: Sol M. Gleser, WW1:Feb 71:230:7868; James W. Nisbet, WW4:Nov 71:761:8488
TR:137:144

Keplar, Richard K.
See John E. Goldberg, ST4:Apr 72:945:8802

Kerley, James H., Jr.
Financing Airport Development, ASC73:Mar 73:141

Kermode, Richard I.
See John J. Davis, EE3:June 73:301:9803

Kerr, Arnold D.
Buckling of Continuously Supported Beams, EM1: Feb 69:247:6422
TR:135:158

Kerr, Samuel Logan
Dsc, PL1:Oct 68:189:6133, of "Homestake Delivery System Pipeline", PL2:July 67:71:5353

Kerri, Kenneth D.
Environmental Assessment of Resource Development, SA2:Apr 72:361:8811
TR:138:282
See Kip Payne, HY4:July 69:1163:6665

Kersten, Robert D.
Engineering Manpower: Supply and Demand Relationships, with John Paul Hartman, CEE:Feb 74:1-479
See Waldron Murrill McLellon, CEE:Feb 74:1-800

Kesavan, H. K.
Graph-Theoretic Models for Pipe Network Analysis, with M. Chandrashekar, HY2:Feb 72:345:8709
Clo: HY2:Feb 73:377:9523
TR:138:167

Keshava, Satya P.
Vibration of Flanged Beams and Panels, TN: ST7: July 73:1681:9828

Keshavan, Krishnaswamingar
Oxygen Sag Curve with Thermal Overload, with G. Clinton Sornberger and Charles I. Hirshberg, EE5: Oct 73:569:10045
Dsc: James P. Bennett and Harvey E. Jobson, EE4:Aug 74:1040:10693
TR:139:344
WPI's Environmental Systems Study Program, with Francis C. Lutz and Richard Smith, CEE:Feb 74:1-121
See G. Clinton Sornberger, EE4:Aug 73:479:9943

Keshava Rao, M. N.
Dsc, ST9:Sept 74:10772, of "Shells for Standard Floor and Roof Elements", ST10:Oct 73:1999: 10096

Kesler, Clyde E.
Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, TB:73:III-25-757
See Joseph P. Callahan, ST10:Oct 70:2021:7579

Ketcheck, Konstantin
Dsc, ST12:Dec 69:2999:6932, of " Horizontally Curved Girders-State of the Art", ST5:May 69:853: 6546

Ketchum, Milo S.
Dsc, ST4:Apr 73:796:9640, of "Analysis of Hipped Roof Hyperbolic Paraboloid Structures", ST7:July 72:1575:9052
See Chesley J. Posey, PP1:Jan 73:128:9460

Kett, Irving
An American Engineer in Israel, CE:June 72:63
Dsc: Norman L. Cooper, CE:Aug 72:46; Leon Levy, CE:Oct 72:63; Murray I. Brill, CE:Jan 73: 52; Elias Zolkov, CE:June 73:24
TR:138:295

Ketter, R. L.
See S. P. Prawell, Jr., CEO-II:70:417

Keulegan, Garbis H.
Tsunami Refraction Diagrams by Digital Computer, with John Harrison, WW2:May 70:219:7261
TR:136:602
See Larry L. Daggett, HY11:Nov 74:1565:10941

Key, William H., Jr.
See Surendra P. Shah, ST1:Jan 72:111:8640

Keys, John W., III
See James F. Ruff, HYB:Aug 73:305
See James F. Ruff, HY6:June 74:719:10584

Khachaturian, Narbey
Optimization of Structures, TB:73:II-14-233
See Lawrence A. Twisdale, TN: ST11:Nov 74:2339: 10116

Khalifa, Magdi M. A.
See Ian J. Jordaan, ST11:Nov 74:2255:10951

Khalil, H. M.
See W. F. Ames, TN: EM2:Apr 72:487:8815

Khan, Abdul Q.
Dsc, with Aftab A. Mufti and Philip J. Harris, ST5: May 71:1646:8084, of "Finite Element on Elastic Foundation", ST10:Oct 70:2083:7604

Khan, Ata M.
Urban Systems Planning: Implications for Civil Engineering Education, CEE:Feb 74:1-164

Khan, Fazlur R.
Fazlur Khan, EN-R's Most Recent Man of the Year, CE:Apr 72:85
Systems and Concepts, Preface, TB:73:Ia-1
See Clyde N. Baker, Jr., SM2:Feb 71:417:7934

Khanal, N. N.
Optimization of an Existing Large Complex Drainage System, with Robert L. Hamrick, OIDS:72:503

Khandekar, Ashok A.
See Kashi T. Krishnaswamy, ST2:Feb 71:719:7867

Khander, M.H. Abdul
Dsc, with K. Elango, HY5:May 73:845:9689, of "Reattaching Flow Downstream of Leaf Gate", HY5:May 72:913:8919

Khanna, J.
Lifetime Wave Height Curve for Saint John Deep, Canada, with P. Andru, WAVES:Sept 74:301

Khanna, Jagannath K.
See Achyut V. Setlur, SDNPF:Dec 73:139

Khanna, P.
Dsc, EE5:Oct 73:748:10035, of "Optimal Design of Wastewater Treatment Systems by Enumeration", SA6:Dec 72:833:9403
Dsc, EE4:Aug 74:1042:10693, of "Design of Optimal Sewerage Systems", EE5:Oct 73:703:10050
See Pramod K. Swamee, EE2:Apr 73:123:9650
See Pramod K. Swamee, EE1:Feb 74:93:10375

Khanna, Sat Dev
Experimental Investigation of Form of Bed-Roughness, HY10:Oct 70:2029:7623
Dsc: Alan L. Prashun, HY7:July 71:1146:8223
TR:137:847
Method to Solve Cubic Equation for Depth Below Overfall, TN: IR1:Mar 74:103:10383
Dsc, HY7:July 70:1657:7384, of "Channel Slope Effect on Peak Discharge of Natural Streams", HY2:Feb 70:307:7052

Khaskhachikh, G. D.
New Designs for Beach Protection Structures, with G. A. Tsaturiyan and Ya. S. Shulgin, CE13:72:III-1675
Regular Wave Effects on Walls Made of Cylinders, with O. M. Vanchagov, WW4:Nov 71:735:8547
Dsc: Subrata K. Chakrabarti, WW4:Nov 72:591: 9310
TR:138:101

Khatua, Tara P.
Triangular Element for Multilayer Sandwich Plates, with Yau-Kai Cheung, EM5:Oct 72:1225:9233
TR:138:443

Khojasteh-Bakht, Mahmoud
Analysis of Elastic-Plastic Shells of Revolution, with Egor P. Popov, EM3:June 70:327:7354
TR:136:936

Khot, N. S.
See Vipperla B. Venkayya, EM2:Apr 70:173:7188

Khozeimeh, Khalilollah
See Donald G. Toridis, EM3:June 71:847:8205

Khwaja, Imamuddin
Analysis of Noncircular Cylindrical Shells, with John Stephenson, ST1:Jan 73:33:9473
  Dsc: S. R. Srinivasan and S. Sridharan, ST2:Feb 74:472:10306
  TR:139:190
Nonlinear Bending of Bars, TN: EM1:Feb 71:137:7858

Kiattikomol, Kraiwood
Application of Dual Series to Rectangular Plates, with Leon M. Keer and John Dundurs, EM2:Apr 74:433:10486
See John Dundurs, EM2:Apr 74:445:10485

Kidder, Alice E.
See Arthur Saltzman, TE4:Nov 72:855:9369
See Arthur Saltzman, TE3:Aug 74:769:10760

Kiefer, Fred W.
See H. Bolton Seed, SM5:Sept 69:1199:6783

Kiefer, Ralph W.
Aerial Photography for Water Resource Studies, with James P. Scherz, SU2:Nov 71:321:8545
  Dsc: Santosh K. Mahajan, SU2:Nov 72:239:9308
  TR:138:149
Airphoto Interpretation of Flood Plain Soils, SU1:Oct 69:49:6819
  TR:136:417
Applications of Airborne Remote Sensing Technology, with James P. Scherz, SU1:Apr 70:57:7225
  TR:136:781
Computer Based Land Use Suitability Maps, with Michael L. Robbins, SU1:Sept 73:39:10015
  Dsc: Robert M. Ragan and Ernest C. Rebuck, SU2:Nov 74:177:10900
  TR:139:490
Dsc, CE:Dec 70:58, on Ecological Values and Regional Planning, CE:Aug 70:40

Kiehl, Robert
Dsc, CE:Mar 70:53, on Black People Call for ASCE Social Action, CE:Dec 69:73

Kiesling, Ernst W.
Civil Engineering for Recreation, with George A. Whetstone, CE:Apr 72:50
  TR:138:182
In-Home Shelters from Extreme Winds, with David E. Goolsby, CE:Sept 74:105
Dsc, with James R. McDonald, Kishor C. Mehta and Joseph E. Minor, ST6:June 74:1314:10569, of "Residential Buildings Engineered to Resist Tornadoes", ST4:Apr 73:701:9668

Kiessling, Edward H.
The Civil Engineer's Image, CEWAU:74:273

Kilcawley, E. J.
Dsc, with Paul W. Purdom and Sergei N. Grimm, SA3:June 69:667:6582, of "Review of "A Strategy for a Livable Environment"", SA6:Dec 67:171:5689

Kiley, Edward V.
"Quo Vadis", PP1:Jan 73:85:9495
  TR:139:142

Kilpatrick, Frederick A.
Dsc, SA3:June 70:856:7313, of "Fluorometer Calibration Curves and Nomographs", SA4:Aug 69:705:6728
See Nobuhiro Yotsukura, EE4:Aug 73:499:9947

Kim, Chin Man
See Bezalel C. Haimson, RM13:72:845
See Bezalel C. Haimson, RM14:73:748

Kim, Jai B.
Lateral Load Tests on Full-Scale Pile Groups, with Robert J. Brungraber and C. H. Kindig, PES:72:I-1105
  Dsc: Michele B. Jamiolkowski and S. Marchetti, PES:73:III-237
Measuring Pile Deflections With Inclinometer, with Robert J. Brungraber, TN: GT7:July 74:867:10641

Kim, Y. S.
A Model Study on the Slope Stability Around an Open Pit, with R. R. Dimock, Jr., RM13:72:201

Kim, Y. Y.
Sea State Measurements from Pressure Records, with L. H. Simon, WAVES:Sept 74:40

Kim, Young C.
Response of Ocean Based Structure To Water-Shock Waves, CEO-II:70:93

Kimball, Thomas L.
Water Quality and Environmental Quality, WQEF:Mar 70:51

Kimball, William A.
Kimball Dies At 100, CE:June 73:94

Kimbler, Oscar K.
See Raphael G. Kazmann, IR4:Dec 74:413:10991

Kinch, Richard J.
See Robert W. Cleary, EE1:Feb 74:187:10344

Kind, K. Ya.
See A. G. Averkiev, ISSF:Aug 72:485

Kindig, C. H.
See Jai B. Kim, PES:72:I-1105

King, Alton B.
See Calvin G. Clyde, HY10:Oct 73:1777:10088

King, Charles H., Jr.
The Perimeter Canal—A New Approach to Discharge Urban Water into a Coastal Mangrove Area, with Gerald M. Ward, IR73:Aug 73:99

King, Danny L.
Dsc, with Perry L. Johnson, HY9:Sept 71:1535:8345, of "Mechanics of Stratified Flow Through Orifices", HY12:Dec 70:2401:7757

King, Darrell L.
Dsc, EE3:June 74:780:10564, of "Carbon and Nitrogen as Regulators of Algal Growth", EE5:Oct 73:639:10043

King, George J. W.
Comparison of Stress-Dilatancy Theories, with Edward A. Dickin, SM5:Sept 70:1697:7516
  Dsc: Peter W. Rowe, SM4:Apr 71:704:8014
  Clo: SM11:Nov 71:1598:8484
  TR:137:113
See Joseph Emerson, SM1:Jan 70:345:6989
See Robin N. Chowdhury, TN: SM12:Dec 72:1433:9399
See Vallampadugai S. Chandrasekaran, TN: GT9:Sept 74:1086:10774

King, Ian P.
Dsc, HY11:Nov 70:2379:7941, of "Efficient Code for Steady-State Flows in Networks", HY1:Jan 70:43:7002

King, Jim D.
Redesign Modernizes Old Bridge, with Harry R. Powell, CE:Nov 70:37
  TR:136:1074

King, John C.
Preplaced Aggregate Concrete In Dam Construction, RCCD:70:203

King, Murphy O.
Memoir of, TR:139:567

King, Palmer
Legal Aspects of Weather Modification, IR3:Sept 69: 403:6782
TR:135:1022

King, Paul H.
Lagoon Disposal Of Water Treatment Plant Wastes, with Walter S. Medding and Clifford W. Randall, TN: SA4:Aug 70:1031:7445
Dsc, SA2:Apr 68:444:5876, of "Distribution of Pesticides in California", SA5:Oct 67:27:5510
See Clifford W. Randall, SA2:Apr 70:395:7223

King, R. M.
Dsc, PO1:Jan 71:223:7784, of "Tailwater Encroachment", PO2:Oct 69:167:6798

King, Wilton W.
Transient Elastic Waves in Fluid-Filled Cylinder, with Daniel Frederick, EM5:Oct 68:1215:6188
Errata: EM5:Oct 69:1287:6800
TR:135:922

Kingbay, Keith
Bikeways, Bikeway Planning and Bicycling, BP73: Dec 73:526

Kingsburg, Robert P.
See Dilip S. Mehta, SA3:June 72:471:8938

Kinman, Riley N.
Status of Water Disinfection with Iodine, with A. P. Black and W. C. Thomas, Jr., 4NSCD:71:11
See R. F. Layton, NSCD:71:285

Kinneman, William P.
Dsc, with Peter A. Hakman, WW2:May 72:279:8863, of "Offshore Floating Terminals", WW3:Aug 71: 531:8295
See Peter A. Hakman, WW2:May 70:557:7252

Kinnier, Henry L.
See Furman W. Barton, CEE:Feb 74:1-962

Kinsey, William R.
Underground Pipeline Corrosion, TE1:Feb 73:167: 9574
TR:139:222

Kinsky, Jan
See Sam Frydman, SM8:Aug 71:1124:8270

Kinsman, George
Power Plant Cooling Systems, PO2:Oct 72:247:9231
TR:138:364

Kinstlinger, Jack
New Approaches to Urban Transportation Needs, NA:Mar 71:197

Kipple, Frank P.
See Ronald L. Hanson, IRS:Sept 72:309

Kirby, James W.
Weed Control in Arid Southwest, with A. Darrell Summers, IR4:Dec 71:571:8570
TR:137:964

Kirby, Malcolm
Dsc, SA3:June 71:387:8157, of "Decentralized Solid Waste Collection Facilities", SA5:Oct 70:1035:7594

Kirdar, Edib
See Thomas T. Wilson, Jr., HY3:May 69:995:6575
See Thomas T. Wilson, Jr., IR3:Sept 70:299:7541

Kirk, D. Wayne
See Thomas G. Barton, ST4:Apr 73:687:9655

Kirkham, Don
See Sadik Toksoz, IR1:Mar 71:1:7985
See Sadik Toksoz, IR1:Mar 71:19:7986

Kirkhope, James
See G. Jeyaraj Wilson, EM5:Oct 71:1570:8406

Kirkland, J. E.
See William F. Willis, PO2:Oct 69:321:6861

Kirkpatrick, William M.
Strain Conditions in Compression Cylinder, with J. Scott Younger, SM5:Sept 70:1683:7504
TR:136:1118
Stress Distributions in Triaxial Compression Samples, with Roger K. Seals and F. Barry Newman, TN: GT2:Feb 74:190:10310

Kirpich, Phillip Z.
Dsc, HY3:Mar 74:490:10379, of "Systems Analysis in Irrigation and Drainage", HY4:Apr 73:567:9659
Dsc, IR1:Mar 74:95:10380, of "Systems Analysis and Irrigation Planning", IR1:Mar 73:89:9625
Dsc, IR4:Dec 74:515:10975, of "Irrigation Development in Bangladesh", IR1:Mar 74:69:10394

Kirsch, Uri
Optimum Design by Partitioning into Substructures, with Max Reiss and Uri Shamir, ST1:Jan 72:249: 8645
TR:138:117
Optimum Design of Prestressed Plates, ST6:June 73: 1075:9777
Errata: ST5:May 74:1143:10506
TR:139:349
Reanalysis for Limited Structural Design Modifications, with Moshe F. Rubinstein, EM1:Feb 72:61:8706
Dsc: John H. Argyris and John R. Roy, EM6:Dec 72:1599:9390
Clo: EM3:June 73:598:9759
TR:139:9

Kirstein, Arthur F.
Dsc, ST5:May 72:1206:8861, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71: 2203:8353

Kisak, George
Computer Aids Draftsmen in Soil Profiles and Analysis, with B. James Greenfield, CE:Feb 71:67
TR:137:164

Kise, James
Behavioral Sciences Investigation, ABS:71:101

Kisiel, Chester C.
Analysis of Ephemeral Flow in Aridlands, with Lucien Duckstein and Martin M. Fogel, HY10:Oct 71:1699:8455
TR:137:1037
Dsc, HY6:Nov 68:1586:6200, of "Experimental Examination of the Rational Method", HY6:Nov 67:353:5607
Dsc, HY1:Jan 69:501:6323, of "Autocorrelation and Spectral Analysis in Hydrology", HY2:Mar 68:363: 5837
Dsc, HY12:Dec 71:2104:8552, of "Where Is Urban Hydrology Practice Today?", HY2:Feb 71:257:7917
Dsc, HY12:Dec 71:2105:8552, of "Reservoir Operation With Imperfect Flow Forecasts", HY2: Feb 71:323:7931
Dsc, IR4:Dec 71:654:8553, of "Evaluating Watershed Management Alternativee", IR1:Mar 71:93:7952
Dsc, SA6:Dec 71:941:8555, of "Analysis of Water Temperature Variations in Large River", SA1:Feb 71:19:7908
Dsc, HY9:Sept 72:1720:9156, of "Flood Frequency Estimating Techniques for Small Watersheds", HY9:Sept 71:1441:8383
See Lucien Duckstein, SA6:Dec 71:939:8555
See Lucien Duckstein, SA5:Oct 72:791:9225
See Lucien Duckstein, HY12:Dec 72:2241:9391
See Michael L. Popovich, EE5:Oct 73:577:10104
See Kanchit Chaemsaithong, HY3:Mar 74:461:10430

Kisisel, Ismail T.
Turbulence in Shallow Water Flow Under Rainfall, with Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Clo: EM5:Oct 74:10837
TR:139:207
See Ramachandra A. Rao, HY6:June 72:1082:8925

Kissam, Philip
Dsc, SU2:Sept 70:301:7501, of "Mapping for Changing Environment", SU1:Oct 69:35:6818

Kissane, Robert J.
See David B. Beal, ST11:Nov 69:2541:6867

Kissner, William E.
See Keith F. Faherty, CEE:Feb 74:1-637

Kitipornchai, Sritawat
Elastic Stability of Tapered I-Beams, with Nicholas S. Trahair, ST3:Mar 72:713:8775
Dsc: Negussie Tebedge, ST1:Jan 73:211:9462
Errata: ST5:May 73:952:9693
Clo: ST7:July 73:1640:9826
TR:139:33
See John R. Booker, EM5:Oct 71:1451:8415
See Nicholas S. Trahair, ST10:Oct 71:2535:8445
See Nicholas S. Trahair, EM6:Dec 71:1753:8551
See Nicholas S. Trahair, ST11:Nov 72:2551:9339
See Thepchai Poowannachaikul, EM1:Feb 74:134:10303

Kittides, Christopher P.
Dsc, CE:May 71:59, on The Alternative to Unionism, CE:Feb 71:43

Kivisild, H. R.
Ice Effects on Coastal Structures, with G. D. Ransford, CE13:72:III-1801

Klaassen, G. J.
Dsc, HY3:Mar 74:497:10379, of "Effect of Tall Vegetation on Flow and Sediment", HY5:May 73:793:9748

Klaiber, F. Wayne
Analytical and Model Studies of Prestressed Folded Plates, with Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818
TR:139:377

Klashman, Lester M.
See John S. Farlow, CEO-II:70:1233

Klauder, Louis T.
Need for Competent Engineering for Transit Systems, TN: TE3:Aug 73:9899
Small Budget Rapid Transit, NA:Mar 71:69

Klee, Albert J.
Sample Weights in Solid Waste Composition Studies, with Dennis Carruth, SA4:Aug 70:945:7469
Dsc: D. Joseph Hagerty, Joseph L. Pavoni and John E. Heer, Jr., SA3:June 71:384:8157
Clo: SA1:Feb 72:257:8682
TR:137:149
See Robert M. Clark, SA5:Oct 71:563:8403

Klegerman, Morris H.
Financing Water Quality Control on a National Basis, CWFE:Mar 71:131
Proposed Water Resources Trust Fund, CE:Apr 73:52
TR:139:171

Klehm, William L
See Clarence T Gordon, ST2:Feb 70:199:7065

Klei, Herbert E.
See Martin S. Hertzendorf, SA2:Apr 72:379:8821

Klein, George E.
See Dan G. Haney, TE4:Nov 72:823:9319

Klein, Norman M.
Experiences with Interdisciplinary Teams, ABS:71:83

Klein, R. E.
The Measurement of Tidal Water Transport in Channels, 12CEC:71:1887

Klein, Stanley
Dsc, ST5:May 70:983:7250, of "Efficient Solution of Load-Deflection Equations", ST4:Apr 69:661:6510

Kleinberg, Burton
Introduction to Metric or SI, CE:Mar 73:55
Errata: CE:Apr 73:81
TR:139:109

Klein Breteler, E. H.J.
See W. T. Bakker, 12CEC:71:1001

Kleiner, David E.
Rock Mechanics Studies for Mossyrocky Arch Dam, with Richard C. Acker, PO1:Jan 71:11:7795
Errata: PO4:Dec 71:875:8554
TR:137:77

Kleinman, Alan D.
Economic Evaluation of Water Deficiencies, IRS:Sept 72:415

Klemes, Vit
Watershed as Semiinfinite Storage Reservoir, IR4:Dec 73:477:10213
TR:139:510
Dsc, IR3:Sept 73:406:9962, of "Potential United States Water-Supply Development", IR3:Sept 72:479:9214

Klimok, V. I.
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, with V. P. Kochergin and A. S. Sarkisian, ISSF:Aug 72:261

Kline, George O.
Effect of Environment on Rapid Transit Construction, TE2:May 73:367:9751
Dsc: T. Karl Taylor, TE2:May 74:531:10508
TR:139:332

Kline, Stephen J.
Research and Planning in Fluid Mechanics, HY5:May 72:765:8898
Errata: HY3:Mar 73:549:9580
TR:138:281

Klingeman, Peter C.
Hydrologic Evaluations in Bridge Pier Scour Design, HY12:Dec 73:2175:10224
Dsc: R. Robinson Rowe, HY8:Aug 74:1190:10696
TR:139:482
See Michael C. Roberts, HY7:July 70:1656:7384
See Robert T. Milhous, HYB:Aug 73:293
See Erik Helland-Hansen, TN: HY1:Jan 74:261:10283

Klingner, Richard
See Graham H. Powell, ST9:Sept 70:1919:7555

Klohn, Wulf
Irrigation Practices in Desert Regions of Chile, IRS:Sept 72:211

Kloiber, Lawrence A.
See Harold P. Bakke, CE:Nov 69:56

Kloppel, Kurt
Dsc, with Wolfhart Uhlmann, ST7:July 70:1617:7386, of "Inelastic Analysis of Multistory Multibay Frames", ST11:Nov 69:2477:6922

Klosner, Jerome M.
Inadequacies of Piston Theory in Fluid-Shell Interactions, EM2:Apr 70:143:7237
TR:136:1199

Klotz, Louis H.
On the Applications of ICES and Universal Program Software Systems, CE:Feb 69:72
Dsc: Robert D. Logcher, CE:Sept 69:53
TR:135:500

Kluber, Thomas
Dsc, with Herbert Breth, SM11:Nov 71:1609:8484, of "Flow Through Rockfill Dam", SM2:Feb 71:329:7914

Klumb, David L.
See F. E. Wisely, CE:Jan 71:56
See F. E. Wisely, CE:Dec 72:30

Klus, John P.
Esthetics in Water Towers, CE:Sept 73:84
Errata: CE:Feb 74:24
TR:139:403
Neglected Responsibilities of Undergraduate Education, CEE:Feb 74:1-566
University of Wisconsin Offers Professional Development Degree, with C. Allen Wortley, CE:Jan 72:49
TR:138:20

Knapp, John W.
See John C. Schaake, Jr., HY6:Nov 67:353:5607
See Walter J. Rawls, HY9:Sept 72:1575:9206

Knapp, Robert L.
See Arthur James Mc Arthur, TB:73:Ia-1-199

Knecht, A. Wilson
A. W. Knecht, Well-Known Consultant, Dies, CE:Dec 73:81

Knepper, D. H., Jr.
See R. G. Reeves, ESE:Apr 70:67

Knight, Donald W.
Long Wave Propagation in Idealized Estuary, HY7:July 73:993:9842
TR:139:318

Knight, William L.
Dsc, TE1:Feb 72:150:8685, of "Planning's Role in Standards for Future Highways", TE2:May 71:227:8129

Knisel, Walter G.
Depth-Integrating and Dip Samplers, with Ralph W. Baird, HY2:Feb 70:497:7084
TR:136:569

Knoll, John E.
Environmental Considerations in the Use of Herbicides on Reclamation Projects, OIDS:72:205

Knostman, Harry D.
Collocation and Eigenfunctions in Plane Elastostatics, with Isadore K. Silverman, EM3:June 68:797:5998
Dsc: Milton S. Hess, EM1:Feb 69:301:6371; Patricio A. Laura, EM1:Feb 69:301:6371
Clo: EM5:Oct 69:1286:6800
TR:135:567

Knowles, Robert B.
Axial Load Design for Concrete Filled Steel Tubes, with Robert Park, ST10:Oct 70:2125:7597
Dsc: Richard W. Furlong, ST8:Aug 71:2150:8271
Clo: ST2:Feb 72:504:8684
TR:137:179
Strength of Concrete Filled Steel Tubular Columns, with Robert Park, ST12:Dec 69:2565:6936
Dsc: Sushil Chandra, ST8:Aug 70:1828:7442; Julius G. Potyondy, ST10:Oct 70:2235:7570
Clo: ST5:May 71:1633:8084
TR:136:752

Knox, Hugh S.G.
Dsc, ST12:Dec 72:2818:9395, of "Main Cables of Newport Suspension Bridge", ST12:Dec 71:2825:8606

Knudson, Stanley A.
Vibration of Support Excited Tubes in Coaxial Flow, with Gerald S. Smith, EM6:Dec 70:1039:7775
Dsc: Shoei-sheng Chen, EM5:Oct 71:1579:8406
Clo: EM3:June 72:748:8924
TR:137:916

Knudson, William C.
Dsc, ST1:Jan 72:384:8623, of "Cable-Suspended Roof Construction State-of-the-Art, Subcommittee on Cable-Suspended Roof Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division", ST6:June 71:1715:8190

Ko, Hon-Yim
Bearing Capacities by Plasticity Theory, with Ronald F. Scott, SM1:Jan 73:25:9497
Dsc: Richard G. Pope, SM11:Nov 73:1020:10112
TR:139:222
Bearing Capacity of Footings in Plane Strain, with Luther W. Davidson, SM1:Jan 73:1:9496
TR:139:216
Constitutive Relations of Coal, with Kurt H. Gerstle, RM14:73:157
Deformation of Sand at Failure, with Ronald F. Scott, SM4:July 68:883:6028
TR:135:847
Deformation of Sand in Shear, with Ronald F. Scott, SM5:Sept 67:283:5470
Dsc: James M. Bell, SM1:Jan 69:340:6324
TR:135:325

Ko, K. C.
Discrete Element Techniques for Rock Slope Analysis, RM13:72:183
See C. D. Broadbent, RM13:72:573

Ko, Stephen C.
Cost-Effectiveness Analysis of Wastewater Reuses, with Lucien Duckstein, SA6:Dec 72:869:9434
Errata: EE5:Oct 73:751:10035
TR:139:519
Drag Coefficient of Cylinders in Turbulent Flow, with Walter H. Graf, HY5:May 72:897:8920
TR:138:305
Measurements of Turbulence in Water at High Velocity, TN: HY12:Dec 72:2253:9397
See Walter H. Graf, TN: HY8:Aug 71:1265:8274

Kobayashi, Akira
See Takeshi Ijima, 12CEC:71:1537

Kobs, E. C.
Foreign Service, PP1:July 69:79:6703
Dsc: Frederick L. Hotes, PP1:Sept 70:156:7549
TR:136:815

Kobus, Helmut
Dsc, HY1:Jan 70:280:6988, of "Jet-Induced Circulation and Diffusion", HY2:Mar 69:589:6445

Koch, DuWayne A.
Implication of Systems Analysis to Inland Navigation, WW3:Aug 71:559:8302
TR:137:991
Replacement-Lock and Dam No. 26: Projecting Waterborne Commerce-Inland Navigation, WW1:Feb 70:9:7100
TR:136:507
See Anson G. Eickhorst, WW1:Feb 70:15:7094

Kochergin, V. P.
See V. I. Klimok, ISSF:Aug 72:261

Kocsis, Peter
Dsc, SM6:Nov 69:1549:6894, of "Numerical Analysis of Flexible Retaining Structures", SM6:Nov 68:1233:6221
Dsc, CE:Aug 70:63, on Side-Bearing Pier Foundations, CE:May 69:65
Dsc, SM6:June 71:932:8158, of "Lateral Load Tests on Piles-Arkansas River Project", SM5:Sept 70:1583:7510

Dsc, SM1:Jan 72:124:8622, of "Behavior of Laterally Loaded Piles: 1-Single Piles", SM5:May 71:711:8092

Koehler, Alexander C.
Multibarrier Containment for Nuclear Power Plants, with Delbert M. Leppke and Roy W. Corcoran, PO2:Oct 69:203:6829
TR:135:853

Koehm, Edward
See Fred R. Cline, CE:Mar 74:68

Koelzer, Victor
See Charles F. Luce, CE:May 73:70

Koenen, Joseph F.
Dsc, Computational Convenience, CE:June 72:60

Koerner, Robert M.
Acoustic Emissions In Medium Plasticity Clayey Silt, with A. E. Lord, TN: SM1:Jan 72:161:8618
Behavior of Single Mineral Soils in Triaxial Shear, SM4:July 70:1373:7432
Dsc: T. S. Ramanatha Iyer, SM3:Mar 71:593:7943
Clo: SM10:Oct 71:1491:8410
TR:136:1323
Effect of Particle Characteristics on Soil Strength, SM4:July 70:1221:7393
Dsc: B. Ramanathan, SM4:Apr 71:690:8014; N. Keith Tovey and David H. Krinsley, SM4:Apr 71:691:8014; Jean-Pierre Giroud, SM4:Apr 71:693:8014
Clo: SM10:Oct 71:1490:8410
TR:136:1317
Experimental Behavior of Downdrag in Deep Foundations, TN: SM2:Feb 71:515:7860
Settlement of Building on Pile Foundation in Sand, with Antal Partos, GT3:Mar 74:265:10405
Dsc: Robert P. Vallee, GT10:Oct 74:1169:10838

Koga, Kazutami
See Takeshi Ijima, 12CEC:71:137

Koh, Robert C. Y.
Two-Dimensional Surface Warm Jets, HY6:June 71:819:8186
Dsc: Habib O. Anwar, HY1:Jan 72:297:8620; Eric Hirst, HY1:Jan 72:299:8620; Flemming Bo Pedersen, HY2:Feb 72:397:8681; Keith D. Stolzenbach and Donald R.F. Harleman, HY4: Apr :713:8799
Clo: HY11:Nov 72:2037:9305
TR:137:988
See Norman H. Brooks, HY4:July 69:1369:6702

Koh, Severino L.
See Mohammed H. Baluch, ST9:Sept 72:1957:9203

Kohl, John C.
Urban Transportation - A Persistent Paradox, NA: Mar 71:61

Kohnke, Peter C.
Analysis of Eccentrically Stiffened Cylindrical Shells, with William C. Schnobrich, ST7:July 72:1493:9033
TR:138:344
Dsc, ST9:Sept 70:1977:7567, of "Analysis of Three Dimensional Thin-Walled Structures", ST12:Dec 69:2863:6968
See Duane L. Cronk, CE:Apr 71:40

Koisch, Francis P.
Supercarriers Versus U.S. Harbor Dimensions, WW1: Feb 71:19:7904
Dsc: Amarendra N. Biswas, WW1:Feb 72:102:8686
TR:137:877

Kokoropoulos, Panos
Kinetics as Design Criteria for Post Chlorination, with George P. Manos, EE1:Feb 73:73:9557
Dsc: Karl Longley, Vincent P. Olivieri and Cornelius W. Kruse, EE5:Oct 73:757:10035
Clo: EE3:June 74:763:10564
TR:139:40

Kolar, Vaclav
Dsc, HY10:Oct 73:1894:10037, of "Predicting Sediment Yield in Western United States", HY12: Dec 72:2073:9432

Kolb, Lawrence P.
Dsc, CE:Nov 70:61, on Priorities: Engineering education; ASCE; Pollution Control, CE:July 70:60
See Robert L. McFall, CE:Apr 71:41

Kolbeck, Henry J.
See Philip G. Sikes, PO1:May 73:217:9741

Koletty, Fred C.
See Edward G. Nawy, TE2:May 72:243:8891

Koller, Earl R.
Dsc, WW1:Feb 70:151:7049, of "Stability Tests of Interlocking Block Revetment", WW3:Aug 68:331:6079
See Carl R. Wilder, CE:Oct 71:60

Kollgaard, Eric B.
Application of New Methods of Structural Analysis for Safety Investigations of Concrete Dams, IMROD:Sept 73:498
Summary of Presentations and Discussions on Materials Deterioration and Ancillary Equipment, with Joseph D. Walters, IMROD:Sept 73:528

Koloseus, Herman J.
Circular Hydraulic Jump, with Daud Ahmad, HY1: Jan 69:409:6367
Dsc: Abhimanyu Swain, HY6:Nov 69:2197:6866
Clo: HY7:July 70:1610:7384
TR:135:1001
Dsc, CE:Nov 70:61, on Chart for Classification of Flow Profiles in Wide Rectangular Channels, CE: July 70:62
Dsc, HY1:Jan 71:214:7783, of "Calibration of Walnut Gulch Supercritical Flumes", HY8:Aug 70:1681:7479
Dsc, HY12:Dec 71:2110:8552, of "Effects of Mechanical Cleaning Operations on Flow In Large Conduits", HY5:May 71:677:8110
Dsc, CE:Feb 72:46, on River Erosion Due to Channel Relocation, CE:Aug 71:39
Dsc, HY8:Aug 74:1164:10696, of "Comparison of Bridge Backwater Relations", HY6:June 73:921:9799

Kolpak, M. M.
A System for Measuring Orbital Velocities in Waves, with P. S. Eagelson, 12CEC:71:327

Koltnow, Peter G.
Dsc, CE:Apr 71, on Population and People, CE:Dec 70:27

Koluvek, Paul
See Luther B. Grass, IR4:Dec 74:477:10997

Komamura, Fujiya
New Rheological Model for Soil Behavior, with Rodney J. Huang, GT7:July 74:807:10675

Komar, Paul D.
Airy Wave Theory and Breaker Height Prediction, with Michael K. Gaughan, CE13:72:I-405

Komatsu, Masahiko
See Koichi Akai, PES:72:I-341

Komito, Donald H.
Dsc, CE:July 72:52, on Computers: Key to Integrated Building Design, CE:Mar 72:74

Komornik, Amos
Building Settlement on End-Bearing Driven Piles, with Gdalyah Wiseman and Joseph G. Zeitlen, PES:72:I-1135
Prediction of Swelling Pressure of Clays, with D. David, SM1:Jan 69:209:6358
Dsc: Moshe Livneh, SM1:Jan 70:323:6989
Clo: SM5:Sept 70:1792:7499
TR:135:951
See Zvi Getzler, SM5:Sept 68:1123:6105

Kondo, Hideo
Reflection and Transmission for a Porous Structure, with Satoshi Toma, CE13:72:III-1847

Kondratiev, A.
Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, TB:73:II-14-157

Konig, Gert
Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, TB:73:Ia-3-515
German Code Requirements, TB:73:Ib-10-1027
Stability of Frames and Shear Walls, with Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613

Konkel, E. Vernon
Costs of Lightweight Concrete and Other Materials in Various Building Types, CE:Apr 69:65
TR:135:366

Kono, Tsugio
See Hiroyoshi Shi-igai, 12CEC:71:563

Konski, James L.
The Bicycle Anarchy, TE4:Nov 73:757:10120
TR:139:466
The Energy Crisis and the Bicyclist, BP73:Dec 73:576

Konyalian, R.
Dsc, with Theodore V. Galambos, ST3:Mar 70:737:7116, of "Nonuniform Torsion of Composite Beams", ST6:June 69:1233:6623

Koo, Benjamin
Dsc, ST3:Mar 69:533:6430, of "Stability Analysis of Frameworks by Matrix Methods", ST7:July 68:1745:6032
Dsc, ST2:Feb 72:513:8684, of "Spaced Steel Columns", ST5:May 71:1465:8109
Dsc, ST3:Mar 73:588:9583, of "Simple Interaction Equations for Beam-Columns", ST7:July 72:1413:9020

Koogler, J. B.
See E. R. Hendrickson, SEA:70:91

Kopelman, I. J.
See Martin S. Hertzendorf, SA2:Apr 72:379:8821

Kopp, Eugene H.
See King S. Luk, EI2:Apr 74:105:10466

Koppula, Sivajogi D.
Consolidation of Clay Layer in Two Dimensions, with Norbert R. Morgenstern, SM1:Jan 72:79:8674
Dsc: Gerald P. Raymond, SM5:May 72:513:8860; R. T. Murray, SM12:Dec 72:1414:9394; Icarahy da Silveira, SM12:Dec 72:1416:9394
TR:138:168
Dsc, SM8:Aug 71:1134:8270, of "Phreatic Surface Location after Drawdown", SM1:Jan 71:47:7806
See David S. Matheson, SM7:July 71:1034:8224

Korbay, George S.
Business Development and the Selection Process, EPMT:73:21
California ASCE Sections Prepare Employment Guidelines, with Ronald P. Gallagher, CE:Jan 72:52
TR:138:25

Kordina, Karl
Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, TB:73:III-23-555
Cast-In-Place Joints for Tall Buildings, TB:73:III-21-308
Cracking and Crack Control, TB:73:III-24-721

Korn, Alfred
Behavior of Elastic-Plastic Frames, with Theodore V. Galambos, ST5:May 68:1119:5942
Dsc: Anatol A. Eremin, ST2:Feb 69:298:6373; Saafan A. Saafan, ST4:Apr 69:764:6486; Peter F. Adams, Sauren N. G. Majumdar, W. J. Clark and James G. MacGregor, ST4:Apr 69:769:6486
Clo: ST11:Nov 69:2513:6867
TR:135:609
Bounding of Frame Buckling Loads, ST8:Aug 70:1639:7452
Dsc: Ernest F. Masur, ST12:Dec 70:2680:7714; Frederic W. Williams, ST5:May 71:1642:8084
Clo: ST12:Dec 71:2885:8557
TR:137:107

Korol, Robert M.
Plastic Behavior of Hollow Structural Sections, with John Hudoba, ST5:May 72:1007:8872
Errata: ST3:Mar 73:586:9583
TR:138:230
Strength Predictions of Plates in Uniaxial Compression, with Archibald N. Sherbourne, ST9:Sept 72:1965:9194
TR:138:444
See Archibald N. Sherbourne, ST10:Oct 72:2223:9239

Korolischuk, Elias M.
See Clifford D. Smith, TN: HY1:Jan 73:153:9463

Kort, Calvin L.
Vertical Transportation, State-of-Art Report 4, TB:73:Ia-2-341

Kos, Peter
Dsc, with Ivo Pardus, SA2:Apr 70:642:7190, of "Low Temperature Activated Sludge Settling", SA4:Aug 69:747:6747

Kosro, Jerry
Construction Management Works at Federal Hospital, CE:Jan 74:40

Koss, P. W.
See Jay W. Wiley, Jr., EPCE:Aug 74:13

Kost, Garrison
Nonlinear Dynamic Analysis of Frames with Filler Panels, with William Weaver, Jr. and Russell B. Barber, ST4:Apr 74:743:10481
See Roland L. Sharpe, ST4:Apr 71:1157:8063
See Roland L. Sharpe, PO1:June 72:172:8927

Kostem, Celal N.
See John M. Kulicki, TB:73:III-22-473
See William S. Peterson, ST9:Sept 74:1980:10772

Kostro, George
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, CE:Dec 73:64
See Semih S. Tezcan, EC5:70:675
See Semih S. Tezcan, ST2:Feb 70:421:7047
See Semih S. Tezcan, ST1:Jan 71:407:7847

Kotchergenko, Ihor D.
Dsc, with Ana M.A. de Amorim, HY3:Mar 74:497:10379, of "Finite Element Solution for General Fluid Motion", HY6:June 73:913:9789

Kothandaraman, Veerasamy
Analysis of Water Temperature Variations in Large River, SA1:Feb 71:19:7908
Dsc: Chester C. Kisiel, SA6:Dec 71:941:8555; Daniel A. Cluis, SA2:Apr 72:442:8800
Clo: SA6:Dec 72:1039:9393
TR:137:885

Probabilistic Variations in Ultimate First Stage BOD, SA1:Feb 70:27:7054
TR:136:425
Dsc, with Ralph L. Evans, SA2:Apr 69:362:6785, of "Atmospheric Oxygenation in a Simulated Stream", SA2:Apr 68:319:5905
Dsc, with Ralph L. Evans, SA5:Oct 69:988:6802, of " Effects of Temperature on Stream Aeration", SA6:Dec 68:1153:6309
Dsc, SA6:Dec 71:951:8555, of "Problems Associated with Planning BOD Experiments", SA3:June 71: 333:8202
Dsc, with Ralph L. Evans, EE3:June 74:785:10564, of "Sewage Chlorination Versus Toxicity -- A Dilemma?", EE6:Dec 73:761:10190

Kott, Yehuda
Chlorination Dynamics in Wastewater Effluents, NSCD:71:585
Chlorination Dynamics in Wastewater Effluents, SA5:Oct 71:647:8433
TR:137:828

Kottegoda, Nath T.
Stochastic Five Daily Stream Flow Model, HY9:Sept 72:1469:9165
TR:138:438

Kotzias, Panaghiotis C.
Preloading for Heavy Industrial Installations, with Aris C. Stamatopoulos, SM6:Nov 69:1335:6902
Dsc: A. Rabinovici, SM4:July 70:1475:7385
Clo: SM2:Feb 71:479:7866
TR:136:253
Preloading for Heavy Industrial Installations, with Aris C. Stamatopoulos, PISST:71:321
Dsc: A. Rabinovici, PISST:71:342
Clo: PISST:71:343
See Aris C. Stamatopoulos, SM1:Jan 71:262:7785
See Aris C. Stamatopoulos, SM7:July 72:727:9066

Koudstaal, Rob
See Gerrit Abraham, PO1:Mar 69:63:6466

Kouwen, Nicholas
A Criterion for Vegetation Stiffness, with A. Harrington, IR73:Aug 73:273
Flexible Roughness in Open Channels, with Tharakkal E. Unny, HY5:May 73:713:9723
Dsc: Michael R. Gourlay, HY5:May 74:699: 10505
TR:139:274
Flow Retardance in Vegetated Channel , with Tharakkal E. Unny and Harry M. Hill, IR2:June 69:329:6633
Dsc: J. Wesseling, IR1:Mar 70:101:7114; Michael R. Gourlay, IR3:Sept 70:351:7498
Clo: IR2:June 71:321:8156
TR:136:77

Kovacs, William D.
Dynamic Moduli and Damping Ratios For Soft Clay, with H. Bolton Seed and Clarence K. Chan, SM1: Jan 71:59:7813
Dsc: Kolinjuvadi S. Sankaran and Madurachari S. Subrahmanyam, SM9:Sept 71:1345:8347
Clo: SM4:Apr 72:425:8801
TR:137:527
Sheet Pile Design with Variable Soil Parameters, with James H. Martin and Frank A. Gerig, TN: ST2:Feb 74:200:10310
Studies Of Seismic Response Of Clay Banku, with H. Bolton Seed and Izzat M. Idriss, SM2:Feb 71:441: 7878
TR:137:291
See George G. Goble, PES:73:III-3

Kovalevsky, Leonid G.
Dsc, CO3:Sept 74:493:10768, of "Basic Construction Principles in Higher Latitudes", CO1:Mar 74:33: 10399

Kowalczyk, Ryszard
Dsc, ST3:Mar 71:989:7944, of "Effects of Reinforcements on Ductility of Concrete", ST6: June 70:1167:7366

Kozak, Jiri
Banquet Remarks at the Tall Buildings Conference, TB:73:C-517
Structural Systems of Tall Buildings with Core Structures, State-of-Art Report 8, TB:73:Ia-3-537

Kozak, John J.
Poor Structural Design Brings West Gate Bridge Failure, with Charles Seim, CE:June 72:47
Dsc: David Allen, CE:Sept 72:73; C.V. John Holland, CE:Sept 72:78; Ostap Bender, CE:Oct 72:82
TR:138:272

Kozik, Thomas J.
See Mike E. James, Jr., ST7:July 74:1451:10681

Kozin, Frank
See Roy Levy, EM2:Apr 71:495:8057

Kozlowski, Michael Edwin
See Wen-Hsiung Li, EE4:Aug 74:837:10713
See Wen-Hsiung Li, HY11:Nov 74:1649:10967

Kraeger, Brook A.
See Catalino B. Cecilio, HY10:Oct 74:1329:10851

Kraemer, Boyd A.
A Study in Community Support: The Wheat Ridge Story, BP73:Dec 73:285

Kraft, Leland M., Jr.
See Tien H. Wu, SM2:Mar 70:609:7174
See Tien H. Wu, SM6:Nov 70:1987:7686

Kraft, Walter H.
Location of Bus Stops, with Thomas J. Boardman, TE1:Feb 72:103:8740
TR:138:79
See Thomas A. Gawley, BP73:Dec 73:143
See Paul W. Miller, BP73:Dec 73:221

Krahl, Nat W.
See Ronald S. Reg, ST6:Dec 67:87:5663

Krajcinovic, Dusan
Limit Analysis of Structures, ST9:Sept 69:1901:6778
Dsc: Morris Ojalvo, ST1:Jan 70:165:6990; Jose M. Anton, ST4:Apr 70:871:7191
Clo: ST7:July 70:1599:7386
TR:136:229
Matrix Force Analysis of Thin-Walled Structures, ST1:Jan 70:107:7024
TR:136:537
Dsc, EM2:Apr 70:180:7188, of "Parametric Vibration Response of Columns", EM3:June 69:665:6619
Dsc, ST4:Apr 71:1377:8015, of " Elastic Lateral Buckling of Steel Beam", ST9:Sept 70:1919:7555

Kral, George J.
Educational Needs for Engineering Practice and Recommended Follow-Up Program (Discussion), CEE:Feb 74:2-345
Kral Urges Engineers to Seek Public Office, CE:July 72:84
See Gerard Roberto, CEE:Feb 74:1-433

Krambles, George
Expressway Rapid Transit, TE4:Nov 72:1023:9388
Dsc: Joseph Barnett, TE4:Nov 73:964:10110
Errata: TE2:May 73:428:9691
TR:139:124
Transit Marketing in Chicago, TE2:May 71:361:8134
TR:137:952

Kramer, Charles G.
Armco Steel Works Features Pollution Control, CE: June 70:37
TR:135:1103

Kramer, E. J.
Civil Engineers at Government Aerospace Centers, ESE:Apr 70:145

Kramer, Gary R.
Hydrolysis of Lipids in Wastewater, SA5:Oct 71:731: 8418
TR:137:810
Predicting Reaeration Coefficients for Polluted Estuary, EE1:Feb 74:77:10351
See Ralph K. Cavin, EE3:June 74:772:10564

Kramer, Johann
Artificial Beach Nourishment on the German North Sea Coast, CE13:72:II-1465
Design Criteria for North Sea Dikes, WW4:Nov 71: 703:8548
TR:137:961

Kramer, Larry A.
Irrigation Storage Probabilities of Small Reservoir, IR4:Dec 74:485:10987
See Keith E. Saxton, HY11:Nov 71:1835:8523
See Keith E. Saxton, IAWM:72:165

Kramer, Richard W.
Current Programs for Seismic Safety -- Bureau of Reclamation, IMROD:Sept 73:795

Krammes, J. S.
See Raymond M. Rice, IAWM:72:231

Kranenburg, C.
Gas Release During Transient Cavitation in Pipes, HY10:Oct 74:1383:10892
See J. P. Th. Kalkwijk, HY10:Oct 71:1585:8440

Kraner, Lucien
Education and the Job Market, CEWAU:74:279

Kratz, Ralph
Arctic Hangar for Minus 60 Deg F, CE:May 71:72
TR:137:365

Krauss, Frederick E.
Pneumatic Technique for Buoyant Caissons, WW1: Feb 73:19:9516
TR:139:103
1,200-Ft Graving Dock, with George H. Plude, WW4:Nov 72:549:9389
TR:138:605

Krauss, Mordechai
See Jacob Gluck, ST10:Oct 73:2143:10089

Krauss, Wolfgang
Wind-Generated Internal Waves and Inertial-Period Motions, ISSF:Aug 72:283

Kravitz, Richard A.
Tower Designs for AEP 765-KU Project, with James A. Samuelson, PO2:Oct 69:305:6855
Dsc: E. S. Zobel, PO1:Jan 71:234:7784
Clo: PO4:Dec 71:871:8554
TR:137:4

Krawinkler, Helmut
See Vitelmo V. Bertero, ST5:May 72:1137:8915

Kray, Casimir J.
Design of Ship Channels and Maneuvering Areas, WW1:Feb 73:89:9559
Errata: WW1:Feb 74:57:10308
TR:139:200
Effect on Waterway Depth and Alignments, WW2: May 70:497:7305
Dsc: F. Sherman Cauldwell, WW1:Feb 71:225: 7868; Charles G. Moody, WW2:May 71:430: 8086
Clo: WW1:Feb 72:79:8686
TR:137:88

Kreisle, William E.
Survey Design and Procedures, CE:Feb 72:43
TR:138:77

Krenkel, Peter A.
Impoundment and Temperature Effect on Waste Assimilation, with Edward L. Thackston and Frank L. Parker, SA1:Feb 69:37:6406
Dsc: John Eric Edinger, SA5:Oct 69:991:6802; David A. Bella, SA6:Dec 69:1184:6931
Clo: SA4:Aug 70:999:7441
TR:135:1049
See Edward L. Thackston, SA1:Feb 69:65:6407
See Edward L. Thackston, SA2:Apr 69:354:6485

Kretschmer, T. R.
In-Situ Determination Of Seafloor Bearing Capacity, with H. J. Lee, CEO-II:70:679

Krider, James N.
See Kenneth A. Bryant, Jr., IR73:Aug 73:471

Krieger, James H.
Nader's Raiders Versus California Water Project, PP1:Jan 73:39:9490
Dsc: Robert A. Skinner, PP4:Oct 73:539:10040; Harry Wiersema, PP4:Oct 73:539:10040; Adolph J. Ackerman, EI1:Jan 74:84:10252; Mary Anne Mark, EI1:Jan 74:85:10252
Clo: EI4:Oct 74:361:10835
TR:139:102

Krinbring, Brian
See Donald Munro, CE:Aug 74:86

Krinsley, David H.
See N. Keith Tovey, SM4:Apr 71:691:8014

Krishen, Paul H.
Screening Model for Storm Water Control, with David H. Marks, EE4:Aug 74:807:10712

Krishna, Jai
Aseismic Design of Buildings, TB:73:Ib-6-299
See Sarjit S. Saini, ST7:July 72:1395:9015

Krishna, Prem
Study of Suspended Roof Model, with Tej P. Agarwal, ST6:June 71:1671:8168
Dsc: James F. Dickie and Peter Broughton, ST1: Jan 72:380:8623; John B. Kennedy, ST2:Feb 72: 527:8684
TR:137:984

Krishnamachar, B. S.
General Review of Standards for Steel Buildings in India, State-of-Art Report 6, TB:73:II-13-103

Krishnamurthy, Muthusamy
Equivalent Roughness for Shallow Channels, with Bent A. Christensen, TN: HY12:Dec 72:2257:9397
Dsc, with K. V.N. Sarma, HY12:Dec 70:2658:7711, of "Erodibility of Channels With Cohesive Boundary", HY3:Mar 70:755:7156
Dsc, WW2:May 74:165:10509, of "Regime Equations and Tidal Inlets", WW3:Aug 73:393:9952
See Alan T. Roper, HY7:July 70:1636:7384

Krishnamurthy, Natarajan
Dsc, ST4:Apr 71:1366:8015, of "Shear Lag in Stiffened Box Girders", ST7:July 70:1403:7409

Krishnamurthy, S.
See N. S.V. Kameswara Rao, TN: SM11:Nov 72: 1286:9312

Krishnasamy, Settiana G.
Model I-Shaped Beams under Alternating Deflections, with Archibald N. Sherbourne, TN: ST3:Mar 71:1015:7946

Krishnaswamy, C. N.
Dsc, with Bryan A. Erler and Adolf Walser, ST7:July 73:1664:9826, of "Experimental Studies of Membrane Shear Transfer", ST8:Aug 72:1835:9145

Krishnaswamy, Kashi T.
Dsc, EM2:Apr 70:171:7188, of "Fracture Mechanism in Concrete: How Much do We Know?", EM3: June 69:531:6604
Dsc, with Ashok A. Khandekar, ST2:Feb 71:719: 7867, of "Moment-Resistance Connections in Precast Concrete", ST12:Dec 69:2723:6947
Dsc, with Sakharam V. Sharpure and Ashak B. Kulkarni, ST2:Feb 72:533:8684, of "Flexural Members with Confined Concrete", ST7:July 71: 1969:8243

Krishnaswamy, N. R.
See M. Anandakrishnan, SM10:Oct 73:863:10092

Krishnayya, A. V.G.
Dsc, with Zdenek Eisenstein, GT4:Apr 74:464:10440, of "Three-Dimensional Finite Element Analyses of Dams", SM7:July 73:495:9857
See Zdenek Eisenstein, PES:72:I-765

Krisnamurthy, Muthusamy
Dsc, HY5:May 74:714:10505, of "Incipient Motion and Sediment Transport", HY10:Oct 73:1679:10067

Kristek, Vladimir
Irregular Supports and Skew Diaphragms of Box Girders, ST5:May 74:917:10541
Tapered Box Girders of Deformable Cross Section, ST8:Aug 70:1761:7489
  Errata: ST6:June 71:1817:8159
  Clo: ST7:July 71:2021:8225
  TR:136:999
Dsc, ST12:Dec 71:2916:8557, of "Need For Diaphragms in Concrete Box Girders", ST3:Mar 71:825:7965

Krivak, Joseph A.
Integrating Water Quality and Water Resources Planning, HY9:Sept 74:1257:10829

Kriz, George J.
See Eugene W. Rochester, Jr., SA5:Oct 70:1235:7627
See R. Wayne Skaggs, IR3:Sept 72:363:9183

Krizek, Raymond J.
Coupled Sliding and Rocking of Embedded Foundations, with Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
  TR:138:582
Effect of Particle Characteristics on Wave Velocity, with Francis G. McLean and Max W. Giger, TN: GT1:Jan 74:89:10254
Evaluation of Stress Cell Performance, with M. Hassan Farzin, Anwar E.Z. Wissa and R. Torrence Martin, GT12:Dec 74:1275:11030
Precompression Analysis for Highway Embankments, with Peter K. Krugman, GT74:June 74:111
Unsteady Drawdown in Well Groups, with Gabor M. Karadi and D. Babu Rao, HY10:Oct 71:1625:8436
  Dsc: J. Patrick Powers, HY3:Mar 72:580:8749
  Clo: HY12:Dec 72:2223:9391
  TR:137:1031
Unsteady Flow to Bottom Drain in Bounded Aquifer, with Antonio Soriano and Imre Gyuk, IR2:June 73: 169:9807
  TR:139:355
Vibratory Densification of Damp Clayey Sands, with Jose I. Fernandez, SM8:Aug 71:1069:8320
  Dsc: Edgar Becker, SM1:Jan 72:138:8622
  TR:137:653
Well Capacity for Continuous Permeability Variation, with Wallace H. Baker and Arley G. Franklin, IR3: Sept 69:409:6785
  TR:135:52
See Gabor M. Karadi, HY6:Nov 68:1546:6200
See Wallace H. Baker, SM1:Jan 70:269:7015
See Robert D. Holtz, CO1:June 70:29:7358
See Francis G. McLean, TN: SM1:Jan 71:305:7787
See Antonio Santos-Moreno, EM1:Feb 72:141:8738
See Abdelsalm M. Salem, WW4:Nov 73:439:10157
See Ross B. Corotis, GT9:Sept 74:993:10811
See Eduardo E. Alonso, EM6:Dec 74:1211:11027

Kroenke, Wayne C.
Finite Element for Reinforced Concrete Frame Study, with Martin J. Gutzwiller and Robert H. Lee, ST7:July 73:1371:9835
  Dsc: William P. Dawkins, ST4:Apr 74:822:10442; Shriniwas N. Pagay, ST8:Aug 74:1714:10697
  TR:139:384

Krokosky, Edward M.
Fire Intensity-Resistance Evaluation, ST11:Nov 70: 2501:7706
  TR:136:1282
Noise Control and Civil Engineering, with Clive L. Dym, CE:May 74:45
Optimal Multifunctional Material Systems, EM2:Apr 71:559:8077
  Dsc: Jawalker K. Sridhar Rao, V. K. Kapur and C. V.S. Kameswara Rao, EM6:Dec 71:1750: 8551
  TR:137:948
See Chester P. Smolenski, ST4:Apr 70:823:7243
See Mohammad A. Iqbal, EM6:Dec 70:825:7738
See R. S. Atkins, UP1:Apr 71:41:8022
See Robert Burnham, CEE:Feb 74:1-179

Kroll, Geoffrey D.
See J. Hartley Daniels, ST3:Mar 70:671:7173

Krone, Ray B.
See Richard A. Bradley, SA1:Feb 71:59:7926
See David K. Hills, SA6:Dec 71:851:8596
See Arunachalan Sargunam, TN: HY3:Mar 73:555: 9609

Kross, D. A.
See Gerald A. Wempner, EM6:Dec 68:1273:6259

Krueger, E. Rex
See Robert L. Schiffman, PP2:Apr 72:251:8834

Krugman, Peter K.
See Raymond J. Krizek, GT74:June 74:111

Kruse, Cornelius W.
Halogen Action on Bacteria, Viruses, and Protozoa, with Yu-Chih Hsu, Annabel C. Griffiths and Richard Stringer, NSCD:71:113
See Marcus M. Truitt, SA2:Apr 69:289:6508
See Richard Stringer, NSCD:71:319
See Richard Stringer, SA6:Dec 71:801:8567
See Karl Longley, EE5:Oct 73:757:10035

Kruse, E. Gordon
Effectiveness of Precipitation in a Mountain Meadow, with Howard R. Haise, IR73:Aug 73:627
Remote Photographic Acquisition of Data, with Meredith L. Payne, TN: IR4:Dec 70:503:7752
See Howard R. Haise, IR4:Dec 69:503:6969
See Ion Nicolaescu, IR3:Sept 71:343:8358

Kruse, George H.
Powerplant Chamber Under Oroville Dam, URC:72: 333
Properties and Steel Tunnel Liners, PO3:June 70: 4115:7357
  Dsc: Frederic L. Lawton, PO1:Jan 71:263:7784
  TR:137:838

Kruseman, P.
Wind and Wave Climate Study in the North Sea, WAVES:Sept 74:1

Krutchkoff, Richard G.
See Stephen W. Custer, SA5:Oct 69:865:6834
See William R. Schofield, SA5:Oct 72:745:9296
See William R. Schofield, EE3:June 74:613:10578
See William R. Schofield, EE4:Aug 74:979:10735

Krylov, Yu M.
Estimation of Wave Parameters at Marine Construction, with S. S. Strekalov and V. F. Tsyploukhin, TN: WW4:Nov 71:793:8491

Ku, Ming-ching T.
See Liang-tseng Fan, EE6:Dec 74:1231:11018

Kuba, Edward M.
See Robert L. Wiegel, WW2:May 70:307:7279

Kubes, J. V.
See Kenneth K. Tanji, IR1:Mar 69:171:6473

Kubik, Harold E.
See Leo R. Beard, IR3:Sept 72:433:9219

Kubo, G. G.
See Harvey A. Kagan, ST4:Apr 68:943:5892

Kudrna, Frank L.
The Prairie Plan, UP2:Sept 73:205:9971
TR:139:327

Kuesel, Thomas R.
Earthquake Design Criteria for Subways, ST6:June 69:1213:6616
Dsc: Asadour H. Hadjian, ST1:Jan 70:159:6990; Anatol A. Eremin, ST3:Mar 70:736:7116
TR:136:718
Subway Construction: Management and Costs, CE: Mar 69:60
TR:135:408
A Tale of Three Tunnels, CE:Dec 74:50
Dsc, ST4:Apr 74:832:10442, of "Deck-Stiffened Arch Bridges of Robert Maillert", ST7:July 73:1527:9862

Kuhlemeyer, Roger L.
Finite Element Method Accuracy for Wave Propagation Problems, with John Lysmer, TN: SM5:May 73:421:9703
See John Lysmer, EM4:Aug 69:859:6719

Kuhlmann, Lou
See Dallas Grenley, CO2:June 74:133:10603

Kuhn, Herman A.J.
Modern Civil-Environmental Engineering Curriculum, with William D. Berg, CEE:Feb 74:1-104
Planning Implications of Urban and Rural Freeway Interchanges, UP1:Apr 69:81:6521
Errata: UP1:Mar 70:103:7119
TR:135:40

Kuhn, Paul A.
Workshops—Foundation of ASCE Grass Roots Strength, EI4:Oct 74:289:10842

Kuiper, Edward
Feasibility of Water Export, HY4:July 68:873:6024
Dsc: George A. Whetstone, HY2:Mar 69:727: 6433; Robert L. McFall, HY2:Mar 69:728:6433; K. N. Shivashankara Rao, HY3:May 69:1063: 6524; T. R. Chandrasekhara and S. Venkataramana, HY3:May 69:1063:6524; John F. Wilkinson, HY4:July 69:1467:6641
TR:135:927

Kukacka, Lawrence E.
Concrete-Polymer Composites, with Peter Colombo, Meyer Steinberg and Bernard Manowitz, ST9:Sept 71:2217:8363
TR:137:759
Concrete-Polymer Composites for Underwater Applications, with Peter Colombo, Meyer Steinberg and Bernard Manowitz, CEO-II:70:969

Kukea, Joseph K.
See James R. Walker, CE13:72:III-2597

Kulak, Geoffrey L.
Behavior of Large A514 Steel Bolted Joints, with John W. Fisher, ST9:Sept 69:1873:6767
TR:135:252
Survey of Research on Structural Connections, TN: ST12:Dec 74:2537:10982
See Sherwood F. Crawford, ST3:Mar 71:765:7956
See Lorne J. Butler, ST5:May 72:989:8874
See John L. Dawe, ST4:Apr 74:727:10457

Kulandaiswamy, V. C.
Dsc, with S. Muthukumaran, HY11:Nov 73:2131: 10109, of "Boundary Effects on Stability of Structures", HY9:Sept 72:1557:9199
See Ven Te Chow, HY6:June 71:791:8176
See S. Muthukumaran, HY3:Mar 72:541:8794

Kulesh, Nikolai P.
Dsc, HY6:Nov 68:1542:6200, of "Three-Dimensional Density Current", HY6:Nov 67:1:5549
See A. M. Mukhamedov, ISSF:Aug 72:543

Kulesza, Richard L.
See Harris H. Burke, SM10:Oct 72:1033:9268

Kulhawy, Fred H.
Analysis of a High Gravity Retaining Wall, GT74: June 74:159
Stresses and Movements in Oroville Dam, with James M. Duncan, SM7:July 72:653:9016
Dsc: Nigel A. Skermer, SM4:Apr 73:356:9639
Clo: SM10:Oct 73:887:10038
TR:139:80
See Stephen G. Wright, SM10:Oct 73:783:10097

Kulicki, John M.
Nonlinear Analysis of Concrete Flexural Members, with Celal N. Kostem, TB:73:III-22-473
See William S. Peterson, ST9:Sept 74:1980:10772

Kulin, Gershon
Dsc, IR4:Dec 70:494:7712, of " Triangular Broad-Crested Weir", IR4:Dec 69:493:6954
Dsc, IR1:Mar 72:159:8750, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987

Kulka, Felix
Dsc, CE:Aug 72:59, on Long-Span Bridge: Utility, Grace at Low Cost, CE:May 72:73
Dsc, CE:Oct 72:76, on Record Concrete Shell Roof Featured in Coliseum, CE:June 72:51

Kulkarni, Ashak B.
See Kashi T. Krishnaswamy, ST2:Feb 72:533:8684

Kulkarni, Garnesh G.
See Simon F. Ng, TN: ST4:Apr 74:842:10456

Kulkarni, S. V.
Some Orthotropic Shells with Bending Suppressed, with Ricardo Chicurel and Daniel Frederick, EM3: June 73:537:9808
TR:139:341

Kulp, Elmer F.
High Precision Levels with Automatic Instruments, SU2:Sept 70:121:7514
TR:136:812

Kumagai, James S.
See Donald B. Porcella, SA4:Aug 70:911:7460

Kumar, Rajnish
See Mohammed Ali Dokainish, EM6:Dec 72:1381: 9431

Kumar, Virendra
See Pramod K. Swamee, EE2:Apr 73:123:9650

Kumbasar, Nahit
See Paul P. Lynn, EM1:Feb 69:255:6425

Kummerle, Richard E.
See Gunnar A. Harstead, PO2:Oct 69:277:6852

See Gunnar A. Harstead, PO2:Mar 71:475:7966

Kuner, Rick
Human/Machine Interface in Moving Walk Design, MTI:May 72:139

Kunitomi, Dale S.
Elevation Changes Due to Tides, Long Beach, Calif., SU2:Nov 72:137:9315
  Dsc: William E. Kelly, SU1:Sept 73:141:9965
  Clo: SU2:Nov 74:173:10900
  TR:139:252

Kunkle, Samuel H.
Sources and Transport of Bacterial Indicators in Rural Streams, IAWM:72:105

Kunukkasseril, Vincent X.
Vibrations of Elastically Connected Ring Systems, with K. Rami Reddy, EM4:Aug 72:777:9092
  Dsc: S. S. Rao, EM4:Aug 73:884:9894
  Clo: EM2:Apr 74:459:10439
  TR:139:75
See A. S. J. Swamidas, EM4:Aug 73:835:9900

Kuo, A. Y.
A Mathematical Model for Salinity Intrusion, with Ching S. Fang, CE13:72:III-2265

Kuo, C. T.
Experimental Studies on the Generation of Waves in Shallow Water, with Frederick L.W. Tang, 12CEC:71:179

Kuo, Chin-Yih
Dsc, EM2:Apr 70:177:7188, of "Validity of Stokes Theory for Accelerating Spheres", EM3:June 69:629:6613
Dsc, WW4:Nov 70:867:7645, of "Turbulent Diffusion and Entrainment in Two-Layer Flow", WW1:Feb 70:97:7081
Dsc, EM2:Apr 71:585:8011, of "Lift-Oscillator Model of Vortex-Induced Vibration", EM5:Oct 70:577:7606

Kuo, Hung Jen
See Kao Ding Chiu, SDNPF:Dec 73:499

Kuo, John T.C.
See Conrad P. Heins, Jr., ST5:May 72:1105:8921

Kuo, You-Ming
Torsion of Cylinders with Multiple Reinforcement, with Harry D. Conway, EM2:Apr 74:221:10460

Kupfer, Helmut B.
Behavior of Concrete Under Biaxial Stresses, with Kurt H. Gerstle, EM4:Aug 73:853:9917
  TR:139:403

Kuppusamy, T.
See M. Anandakrishnan, SM2:Mar 70:772:7115

Kurata, Katsuhiko
See Shoshichiro Nagai, CE13:72:III-1743

Kurdi, Ibrahim I.
See Thomas H. Hanna, GT10:Oct 74:1107:10854

Kurma Rao, K.
Dsc, SM3:May 69:890:6525, of "Embankment Pore Pressures During Construction", SM2:Mar 68:527:5867

Kurtz, Max
Dsc, CE:Apr 71:65, on Graphical Method for Finding All Roots of Quadratic and Cubic Equations, CE:Jan 71:53

Kurz, Johannes W.
Educating the Next Generation of Civil Engineers, CEE:Feb 74:1-442
Transformation of Plans into Actions, UP2:Sept 73:183:10029
  TR:139:531
Dsc, TE4:Nov 69:706:6868, of "Survey of Ground-Access Problems at Airports", TE1:Feb 69:115:6415
Dsc, TE4:Nov 69:707:6868, of "An Uncommon View of the Ground Transportation Problem", TE1:Feb 69:143:6417

Kurzeme, Marcis
In-Situ Investigation Using SH-Waves, SM2:Feb 71:341:7918
  TR:137:393
See Kiichi Tanimoto, SM4:Apr 73:353:9639

Kuzmanovic, Bogdan O.
Optimum Plastic Design of Steel Frames, with Nicholas Willems, ST8:Aug 72:1697:9154
  Dsc: Leon Ru-Liang Wang, ST1:Jan 74:269:10253
  Clo: ST8:Aug 74:1705:10697
  TR:139:116
Some Design Problems of Large Box Girder Bridges, ST9:Sept 72:2059:9193
  TR:138:439

Kuzminski, Lawrence N.
Effect of Calcium Bicarbonate on Disinfection by Halogens, with Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722
  TR:138:222
Effect of Inorganics on Disinfection by Halogens, with Tsuan H. Feng and Chih C. Liu, NSCD:71:85

Kuznetsov, B. G.
See O. F. Vasiliev, ISSF:Aug 72:161

Kwei, Gibson Chi-Shun
Dsc, ST1:Jan 72:365:8623, of "Concrete Column Design by AASHO Specifications", ST4:Apr 71:1187:8070

Kwiatkowski, Robert W.
Environmental Design of Bear Swamp Project, with Louis D. Pierce, PO1:May 73:205:9738
  TR:139:324
See Mircea S. Vasilescu, URC:72:21

Kwiecinski, M.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-516

Kwon, Hyuck J.
See Sherwood M. Gagliano, 12CEC:71:1767

Kyanka, George H.
Dsc, ST7:July 70:1624:7386, of "Stability Problems of Wood Truss Bridge", ST2:Feb 70:353:7095

Kycek, Robert V.
See George T. Treadwell, WW1:Feb 71:123:7883

Laak, Rein
Dsc, with Thomas F. Zimmie, SA2:Apr 70:634:7190, of "Septic Tank Systems", SA4:Aug 69:715:6735
See Kent A. Healy, EE5:Oct 74:1133:10882

Labadie, John W.
See Mohammad T. Chaudhry, HY5:May 74:667:10550

La Baugh, Wesley
Optimizing Traffic Flow on Existing Street Networks, TE2:May 71:353:8135
  TR:137:364

Labib, Aziz H.
See Taher Abu-Wafa, CE:Aug 71:64

Lacey, Gerald
Dsc, HY3:May 69:1072:6524, of "Rationalization of Lacey's Regime Flow Equations", HY4:July 68:983:6039

Dsc, HY9:Sept 70:1886:7497, of "Coordination of Mobile-Bed Hydraulics", HY6:Nov 69:1871:6884

Lacroix, Yves
Design Construction and Performance of Cellular Cofferdams, with Melvin I. Esrig and Ulrich Luscher, LS:70:271

Ladanyi, Branko
Dsc, SM1:Jan 69:378:6324, of "Volume Changes in Triaxial and Plane Strain Tests", SM6:Nov 67:297:5611
Dsc, SM1:Jan 69:392:6324, of "Undrained Strength Characteristics of Cohesionless Soils", SM6:Nov 67:333:5618

Ladd, Charles C.
New Design Procedure for Stability of Soft Clays, with Roger Foott, GT7:July 74:763:10664
Performance of Embankments with Sand Drains on Sensitive Clay, with Joseph J. Rixner and Douglas G. Gifford, PES:72:I-211
Standardization of Particle-Size Ranges, SM5:Sept 69:1247:6795
Dsc: Duane E. Edge, SM3:May 70:1077:7249; J. MacNeil Turnbull, SM3:May 70:1078:7249
Clo: SM1:Jan 71:244:7785
TR:136:219
Test Embankment [illegible] Sensitive Clay, PES:72:I-101
See David J. D'Appolonia, SM10:Oct 71:1359:8438
See Richard M. Simon, GT74:June 74:51

Ladd, Donald M.
See Donald N. Brown, TE4:Nov 69:617:6874

Ladd, Fred C.
Dsc, with Raymond A. Mill, SA5:Oct 69:982:6802, of "Viability of Long-Storaged Airborne Bacterial Aerosols", SA6:Dec 68:1137:6299

Ladd, Richard S.
Specimen Preparation and Liquefaction of Sands, TN: GT10:Oct 74:1180:10857

Lade, Poul V.
Cubical Triaxial Tests on Cohesionless Soil, with James M. Duncan, SM10:Oct 73:793:10057
Dsc: Denys W. Reades and Gordon E. Green, GT9:Sept 74:1065:10769; Arthur W.T. Daniel, GT9:Sept 74:1067:10769; M. Goldscheider and G. Gudehus, GT9:Sept 74:1068:10769
TR:139:428

Lae, James P., Jr.
See Richard E. Thomas, IR3:Sept 70:289:7538

La Fond, Eugene C.
Oceanic Factors Pertinent to Shelf Installations, with Katherine G. La Fond, CEO-II:70:783

La Fond, Katherine G.
See Eugene C. La Fond, CEO-II:70:783

LaFrenz, Robert L.
See Richard H. Groves, CE:Aug 72:60

Lager, John A.
Effluent Disposal in South San Francisco Bay, with George Tchobanoglous, SA2:Apr 68:213:5891
Dsc: Joe E. Stover and William H. Espey, Jr., SA3:June 69:675:6582
TR:135:522
Stormwater Treatment: Four Case Histories, CE:Dec 74:40

Lagerquist, Dennis R.
Design Using Symbolic Topological Equations, with Steven J. Fenves, EM3:June 69:695:6624
TR:136:96

Laguros, Joakim G.
See George T. Papadopoulos, IR1:Mar 68:49:5840

Lai, Chi-Kwong
See Richard Paul Shaw, WW3:Aug 74:205:10706

Lai, Chintu
Dsc, HY1:Jan 69:497:6323, of "Mixed Technique for Computing Surges in Channels", HY2:Mar 68:349:5831
Dsc, HY3:Mar 74:482:10379, of "Unified Nondimensional Formulation for Open Channel Flow", HY1:Jan 73:1:9468
See Robert A. Baltzer, HY4:July 68:1083:6048

Lai, K. K.
See Ian R. Wood, HY1:Jan 72:87:8649
See Robert J. Keller, HY4:Apr 74:553:10501

Lai, Robert Y.S.
Accelerated Motion of a Spheroid in Viscous Fluid, HY6:June 73:939:9809
Errata: HY5:May 74:704:10505
TR:139:310
Oscillatory Behavior Of Submerged Structures, with Lyle F. Mockros, CEO-II:70:945
See Lyle F. Mockros, EM3:June 69:629:6613

Lai, Ying-San
Direct Search Optimization Method, with Jan D. Achenbach, ST1:Jan 73:19:9470
Clo: ST3:Mar 74:706:10381
TR:139:184

Laing, Edward B.
See Edward Cohen, CE:Oct 73:46

Laird, Alan D. K.
Eddy Formation Behind Circular Cylinders, HY6:June 71:763:8170
Dsc: Remy L. A. de Jong, HY12:Dec 71:2113:8552; H. Ivan Schwartz, HY3:Mar 72:569:8749
TR:137:983

Laird, Max O.
Dsc, SU2:Sept 70:302:7501, of "Mapping for Changing Environment", SU1:Oct 69:35:6818

Lake, T. D.
See Jack J. Schoustra, CE:Nov 69:39

Lakshmana Rao, Nagar S.
Characteristics of Hydrofoil Weirs, with M. V. Jagannadha Rao, HY2:Feb 73:259:9542
Dsc: Frederic T. Mavis, HY7:July 74:1076:10635
Clo: HY12:Dec 74:1836:10974
TR:139:203
Characteristics of Self-Aerated Flows, with Kyatsandra Seetharamiah and Thimmaiah Gangadharaiah, HY2:Feb 70:331:7055
Dsc: Michele Viparell and Marco Pica, HY2:Dec 70:622:7711
Clo: HY12:Dec 71:2077:8552
TR:137:12
Effect of Channel Shape on Varied Flow Profiles, with Kalambur Sridharan, HY1:Jan 71:55:7796
Dsc: Subhash C. Jain, HY9:Sept 71:1562:8345
Clo: HY4:Apr 72:8799
TR:137:601
Limit Slope in Uniform Computations, with Kalamear Shridharan, HY1:Jan 70:95:7011
Dsc: Edward H. Wilson, HY8:Aug 70:1761:7439; Rupchand M. Advani and Pashupati N. Modi, HY8:Aug 70:1763:7439; Mohan M. Dandekar, HY9:Sept 70:1905:7497
Clo: HY4:Apr 71:581:8012
TR:136:398
Orifice Losses for Laminar Approach Flow, with Kalambur Sridharan, HY11:Nov 72:2015:9370
Dsc: D. Bhagavantam, HY11:Nov 73:2140:10109
Clo: HY7:July 74:1075:10635
TR:139:135
Self-Aerated Flow Characteristics in Wall Region, with Thimmaiah Gangadharaiah, HY9:Sept 71:1285:8359
Errata: HY8:Aug 72:1456:9076
TR:137:748

Dsc, with Kalambur Sridharan, HY4:Apr 70:1093:7189, of "Nondimensional Gradually Varied Flow Profiles", HY5:Sept 69:1671:6790
Dsc, with D. Chandrasekaran, HY10:Oct 70:2150:7568, of "Linear Proportional Weirs", HY2:Feb 70:379:7062
Dsc, with Kalambur Sridharan, HY5:May 72:958:8859, of "Junction Losses in Laminar and Transitional Flows", HY7:July 71:1045:8258
See Bezzam C. Syamala Rao, IR3:Sept 68:352:6088
See Bahaddur S. Rajeevalochanam, HY5:Sept 69:1759:6784
See Thimmaiah Gangadharaiah, HY7:July 70:1549:7427
See M. V. Jagannadha Rao, IR3:Sept 70:371:7498
See M. V. Jagannadha Rao, IR4:Dec 71:656:8553
See D. Chandrasekaran, HY11:Nov 74:1583:10946

Lakshminarayanan, V.
See P. Srinivasan, TE2:May 70:165:7265

Lakshmipathy, M.
See A. R. Santhakumar, EM3:June 70:370:7309

Lal, Jagroshan
See Satya P. Garg, IR1:Mar 71:131:7969

Lal, Pande B.B.
Dsc, HY9:Sept 73:1635:9961, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Lal, Radhey
Furrow Irrigation with Decreasing Inflow Rate, with Amarendra C. Pandya, IR4:Dec 70:451:7748
  TR:137:208

Lalwani, C. K.
Design Assumptions, TB:73:Ib-5-127

Lam, Chan F.
Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, with M. L. Wolla, HY2:Feb 72:335:8729
  Dsc: Frederick L. Hotes, HY10:Oct 72:1889:9222; Ralf G. Cembrowicz and Joseph J. Harrington, HY10:Oct 72:1890:9222
  Clo: HY5:May 73:845:9689
  TR:138:173
Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, with M. L. Wolla, HY3:Mar 72:447:8782
  Dsc: Ralf G. Cembrowicz and Joseph J. Harrington, HY10:Oct 72:1890:9222; Roger P. Donachie, HY12:Dec 72:2244:9391; D. Bree and H. S. Rao, HY3:Mar 73:540:9580
  TR:138:207
Discrete Gradient Optimization of Water Systems, HY6:June 73:863:9804
  Dsc: Carl O.A. Charles, HY3:Mar 74:499:10379; Edward A. McBean, HY4:Apr 74:617:10441
  Clo: HY11:Nov 74:1723:10898
  TR:139:307

Lam, Pham
Dsc, ST2:Feb 74:480:10306, of "Lower Bound Solutions for Continuous Orthotropic Slabs", ST3:Mar 73:443:9617

Lamar, Fred
CE Students Learn Through Socially Useful Projects, CE:Jan 71:60
  TR:137:61
Engineering Students Learn Social Awareness at UMR, CE:May 74:54
  Dsc: Richard H. Hakanson, CE:Aug 74:22

Lamb, R. S.
Dsc, with G. Davies, ST3:Mar 73:583:9583, of "Nonlinear Stress Analysis of Reinforced Concrete", ST4:Apr 72:885:8845

Lambe, T. William
The Behavior of Foundations During Construction, SM1:Jan 68:93:5740
  Dsc: Ulrich W. Stoll, SM1:Jan 69:420:6324; B. Satyanarayana, SM1:Jan 69:424:6324
  Clo: SM5:Sept 69:1270:6754
  TR:135:626
Braced Excavations, with Edmund K. Turner, LS:70:149
The Integrated Civil Engineering Project, SM6:June 72:531:8991
  TR:138:337
Keynote Address: The Performance of Earth Structures and Foundations, 4PCSM:72:III7
Measured Performance of Braced Excavation, with L. Anthony Wolfskill and Ing H. Wong, SM3:May 70:817:7307
  TR:136:950
The Performance of a Subway Excavation, with L. Anthony Wolfskill and Walter E. Jaworski, PES:72:I-1403
Predicting Performance of Braced Excavations, PES:73:III-255
Reclaimed Land in Kawasaki City, Japan, SM5:Sept 69:1181:6780
  TR:136:106
Stress Path Method, ST6:Nov 67:309:5613
  Dsc: Arnoldo J.L. Bolognesi, SM1:Jan 69:379:6324; Douglas H. Merkle, SM1:Jan 69:383:6324; Jack R. Morgan and Charles M. Gerrard, SM1:Jan 69:385:6324
  Clo: SM5:Sept 69:1265:6754
  TR:135:529
See David J. D'Appolonia, SM2:Mar 70:523:7167
See Hugh Q. Golder, SM3:May 70:801:7292
See David J. D'Appolonia, SM1:Jan 71:77:7807
See David J. D'Appolonia, SM6:June 71:881:8213
See David J. D'Appolonia, SM6:June 71:899:8215
See Charles H. Dowding, TN: GT5:May 74:567:10510

Lambert, John L.
Test of Air Cushion Vehicles in Public Transport, TE1:Feb 69:29:6391
  TR:135:957

Lamberton, Bruce A.
Revetment Construction by Fabriform Process, CO1:July 69:49:6677
  TR:136:256
Dsc, SM8:Aug 73:637:9892, of "Strength Properties of Chemically Solidified Soils", SM11:Nov 72:1163:9332

Lamberton, H. C., Jr.
South Florida Training Runway and Everglades National Park, CE:Apr 70:53
  Errata: CE:July 70:67
  TR:136:350

Lammers, T. R.
See J. A. Legarra, CE:Sept 69:54

Lamont, Joseph, Jr.
See Gerald W. Clough, PES:72:I-1367

LaMotta, Enrique
See James C. Brown, SA2:Apr 71:209:8054

Lance, Edwin V.
See Robert W. Charley, IR73:Aug 73:251

Lance, Richard H.
Limit Analysis of Ductile Fiber-Reinforced Structures, with David N. Robinson, EM1:Feb 72:195:8736
  TR:138:130
Plastic Analysis of a Plate Sealing a Fluid, with David N. Robinson, EM6:Dec 70:1183:7742
  TR:136:1318
See John D. Helfinstine, EM4:Aug 72:849:9132

Lane, Leonard J.
Dsc, with Herbert B. Osborn, HY12:Dec 74:1854:10974, of "Urban Flood Frequency Characteristics", HY2:Feb 74:279:10352
See Roger E. Smith, HY5:May 71:749:8081

Lane, Neil W.
Dsc, ST5:May 70:1005:7250, of "Deep Slabs Subjected to Static and Blast Loading", ST11:Nov 69:2449:6919

Lang, Edmund H.
Dsc, TE1:Feb 70:119:7048, of "Economic Location of Locks", TE1:Feb 69:77:6397

Lang, Martin
New York City Wastewater System Management, CWFE:Mar 71:53

Lang, Thomas A.
Underground Rock Structures Challenge the Engineer, URC:72:1

Langer, R. M.
Dsc, WW4:Nov 70:859:7645, of "Dynamics of Ship Anchor-Lines in Waves and Currents", WW4:Nov 64:449:6888

Langeveld, J. M.
Design Criteria for Single-Point Mooring Terminals, WW4:Nov 74:305:10931

Langfelder, Leonard J.
Air Permeability of Compacted Cohesive Soils, with C. F. Chen and J. A. Justice, SM4:July 68:981:6040
  Dsc: Elmer 6. Matyas, SM3:May 69:924:6525; B. Satyanarayana, SM3:May 69:926:6525
  Clo: SM1:Jan 70:303:6989
  TR:135:867
Coastal Erosion in North Carolina, with Donald B. Stafford and Michael Amein, WW2:May 70:531:7306
  Dsc: Richard Silvester, WW1:Feb 71:227:7868
  Clo: WW4:Nov 71:761:8488
  TR:137:108
Settlement of Two Tanks on Loose Cohesionless Soil, with David W. Johnston, 4PCSM:71:II15
Dsc, with John H. Brewer, SM3:May 70:1081:7249, of "Foundation Study for Materials Test Structure", SM6:Nov 69:1431:6921

Langford, Russel H.
National System for Water Data, with George H. Davis, HY7:July 70:1391:7392
  TR:137:55

Langhaar, Henry L.
Stability of Hyperboloidal Cooling Tower, with Arthur P. Boresi, Robert E. Miller and Jerry J. Bruegging, EM5:Oct 70:753:7635
  Dsc: Raphael F. Rish, EM4:Aug 71:1297:8266
  Clo: EM1:Feb 72:258:8680
  TR:137:489

Langham, Edward J.
New Approach to Hydrologic Data Acquisition, HY12:Dec 71:1965:8578
  Dsc: Robert L. McFall, HY9:Sept 72:1727:9156; Morley J. Goodspeed, HY10:Oct 72:1879:9222
  Clo: HY4:Apr 73:681:9637
  TR:138:56

Langlois, Emile
Moment-Resistance Connections in Precast Concrete, with Joseph Menec, Jr., ST12:Dec 69:2723:6947
  Dsc: Kashi T. Krishnaswamy and Ashok A. Khandekar, ST2:Feb 71:719:7867
  TR:136:1108

Langston, Ronald E.
See Igor Holubec, PES:72:I-415

Lanius, Ross M., Jr.
Career Guidance, EI2:Apr 74:111:10465
Dsc, EI1:Jan 74:88:10252, of "An Educator-Practitioner Interaction Program", PP2:Apr 73:259:9674

Lanning, Cortland C.
High Head Gates and Valves in the United States, HY10:Oct 73:1727:10107
  TR:139:429
Oroville Dam Diversion Tunnels, PO2:Oct 67:51:5506
  TR:135:488

Lanyon, Richard F.
Flood Plain Engineering and Management in Metropolitan Chicago, CE:May 74:79
Flow Simulation System, with James Jackson, HY8:Aug 74:1089:10743

Lao, Vincent L.
Dsc, TE1:Feb 72:151:8685, of "New Highway Bridge Dimensions for Safety", TE2:May 71:371:8152

LaPay, William S.
Optimum Design of Trusses for Ultimate Loads, with George G. Goble, ST1:Jan 71:157:7838
  Dsc: Alan D. Russell and Kenneth F. Reinschmidt, ST9:Sept 71:2437:8348
  Clo: ST4:Apr 72:935:8802
  TR:137:500
Optimum Design of Truss Structures For Ultimate Loads, with George G. Goble, EC5:70:223

LaPlante, John N.
Chicago Bikeway Progress Report, BP73:Dec 73:307

LaQue, Francis L.
Factors Affecting Durability of Ferrous Metals in the Atmosphere, ST11:Nov 69:2385:6890
  TR:136:344

Lara, Joe M.
Dsc, HY5:Sept 65:319:4464, of "Sediment Transportation Mechanics: Nature of Sedimentation Problems, by Task Committee on Preparation of Sedimentation Manual", HY2:Mar 65:4260

Lareal, P.
See J. Gielly, SM2:Feb 71:508:7866

Larew, H. Gordon
Civil Engineering Curricula -- An Evaluation, with John P. Bradshaw, CEE:Feb 74:1-406
See Kenan Atakol, SM2:Mar 70:705:7186

Larkin, Lawrence A.
Theoretical Bearing Capacity of Very Shallow Footings, SM6:Nov 68:1347:6258
  Dsc: Bent Hansen and N. H. Christensen, SM6:Nov 69:1568:6894; Leslie L. Karafiath, SM6:Nov 69:1572:6894
  Errata: SM3:May 69:888:6525
  Clo: SM3:May 70:1047:7249
  TR:135:165
Upper Bound Analysis Of Rough Footing Indentation, TN: EM2:Apr 72:493:8815
Dsc, SM5:Sept 68:1190:6089, of "Applications of Limit Plasticity in Soil Mechanics", SM5:Sept 67:101:5424

Larkin, Paul A.
Commentary, CEWAU:74:268

La Rochelle, Pierre
See Oscar Dascal, PES:72:I-129

Larock, Bruce E.
Gravity-Affected Flow from Planar Sluice Gatel, HY4:July 69:1211:6674
  Dsc: M. H. Abdul Khader, HY4:Apr 70:1050:7189
  Clo: HY10:Oct 70:2121:7568
  TR:136:162
See Stevens T.K. Chan, TN: EM5:Oct 72:1317:9228
See Stevens T.K. Chan, HY1:Jan 73:81:9465

See Stevens T.K. Chan, HY6:June 73:959:9787

Larrabee, Richard D
Thermal Loading of Thin-Shell Concrete Cooling Towers, with David P. Billington and John F. Abel, ST12:Dec 74:2367:11002

Larraguibel, Luis
Empresa Nacional de Electricidad S. A. - Endesa's Building, TB:73:C-P-478

Larrain, L. Prieto S.
See J. Aguirre, TB:73:C-P-466

Larras, Jean
Dsc, HY6:June 70:1368:7310, of "Local Scour Around Bridge Piers", HY6:Nov 69:1919:6891
Dsc, HY10:Oct 73:1895:10037, of "Ripple Profiles Modeled Mathematically", HY3:Mar 73:441:9618

Larsen, C. E.
See M. L. Schwartz, CE13:72:III-2503

Larsen, Harold Theodore
Harold T. Larsen, Retired Staff Member, Dies, CE: Apr 71:86
Memoir of, TR:136:1352

Larsen, Ian
Dsc, HY1:Jan 68:332:5703, of "Heterogeneous Flow of Solids in Pipelines", HY3:May 67:145:5244
Dsc, SA6:Dec 68:1295:6262, of "Dispersion Conduits", SA1:Feb 68:31:5781

Larsen, Lawrence H.
Observations of Waves in the North Pacific, with Douglas R. Fenton, WAVES:Sept 74:197

Larsen, Peter
Hydraulic Roughness of Ice Covers, HY1:Jan 73:111:9498
  Dsc: Saul E. Rantz, HY11:Nov 73:2154:10109
  Clo: HY10:Oct 74:1475:10839
  TR:139:189

Larson, Curtis L.
Dsc, HY8:Aug 70:1771:7439, of "Channel Slope Effect on Peak Discharge of Natural Streams", HY2:Feb 70:307:7052

Larson, Lee W.
See Paul A. Rechard, HY9:Sept 71:1427:8386

Larson, Marvin A.
Dsc, ST12:Dec 74:2532:10977, of "Composite Steel-Concrete Construction, by the Subcommittee on the State-of-the-Art Survey, of the Task Committee on Composite Construction, of the Committee on Metals, Structural Division", ST5:May 74:1085:10561

Larson, Michael L.
A Case Study of a Soil Anchor Tie-Back System, with Willard R. Willette, Harold C. Hall and John P. Gnaedinger, PES:72:I-1341

Larson, Thurston E.
See Frank W. Sollo, NSCD:71:245

Larson, Vincent H.
No Wait Nonstop Pneumatic Tired Transit System, TN: TE1:Feb 72:161:8689

Larson, W.
See Allan H. Wern, PO2:Mar 71:539:7992

Larsson, Hans
Dsc, ST5:May 72:1200:8861, of "Alternative Approach to Light-Gage Beam Design", ST8:Aug 71:2119:8327

Lashkari, Mehran
Vibrations of Pressure Loaded Hyperboloidal Shells, with Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
  TR:138:431

Lathlaen, Robert F.
Professional Construction Management and Project Administration, by William B. Foxhall (Book Review), CE:June 72:8
Dsc, CE:June 73:26, on The Gap Between Intent and Performance -- Why Shortchange the Client?, CE: Feb 73:40

Lathrop, William H., Jr.
San Francisco Freeway Revolt, TE1:Feb 71:133:7876
  Errata: TE1:Feb 72:145:8685
  TR:137:717

Latif, Abdul
Investigation of Brahmaputra River, HY5:Sept 69:1687:6793
  Dsc: Richard Silvester, HY4:Apr 70:1094:7189; T. R. Chandrasekhara, HY6:June 70:1363:7310; Anthony Rylands Thomas, HY7:July 70:1623:7384; Gordon R. Williams, HY8:Aug 70:1727:7439
  Clo: HY3:Mar 71:451:7940
  TR:136:235

Latshaw, Gary L.
See C. Michael Hogan, UT73:May 73:109

Lattuada, Vicente Casales
See Aurelio Bemassini Vizcaino, PES:73:III-135
See Aurelio Bemassini Vizcaino, PES:73:III-135

Lau, L. Stephen
See Doak C. Cox, HY12:Dec 71:2095:8552
See Gordon L. Dugan, HY9:Sept 74:1245:10824

Lau, Y. Lam
Prediction Equation for Reaeration in Open-Channel Flow, TN: SA6:Dec 72:1063:9398
Dsc, HY5:May 72:963:8859, of "Dispersion in Natural Streams", HY11:Nov 71:1867:8540
Dsc, HY7:July 74:1079:10635, of "Extreme Roughness of Natural River Channel", HY7:July 73:1027:9831

Laubenberger, Gerhard
See Ludwig Hartmann, SA2:Apr 68:247:5894

Laucht, Hans
See Harald Gohren, CE13:72:II-1089

Lauer, Donald T.
Ground Truth: It's Role in Resource Assessment from Space, with Don L. Olson, ESE:Apr 70:93

Laughlin, William P.
See John A. Hribar, ST3:Mar 68:809:5873

Laura, Della
Dsc, CE:July 73:25, on Are More Women Needed in Civil Engineering, CE:May 73:54
Dsc, CE:Oct 73:32, on Are More Women Needed in Civil Engineering, CE:May 73:54

Laura, Patricio A.
Buckling of Rhombic Plates, with Joseph Grosson, TN: EM1:Feb 71:145:7858
Complex Variable Theory and Elastic Stability Problems, with Paul Shahady, EM1:Feb 69:59:6386
  TR:135:178
Dsc, EM1:Feb 69:301:6371, of "Collocation and Eigenfunctions in Plane Elastostatics", EM3:June 68:797:5998
Dsc, EM2:Apr 69:493:6484, of "Stresses in Beams Having Holes of Arbitrary Shape", EM5:Oct 68:1183:6185
Dsc, EM5:Oct 71:1587:8406, of "Buckling and Vibrations of Polygonal and Rhombic Plates", EM2:Apr 71:305:8030

Dsc, with Mario J. Maurizi, EM5:Oct 71:1588:8406, of "Flexural Vibrations of Rectangular and Other Polygonal Plates", EM2:Apr 71:391:8038
See Enrique Romanelli, EM2:Apr 72:415:8809

Laurenson, Eric M.
Data Error Effects in Unit Hydrograph Derivation, with Terence O'Donnell, HY6:Nov 69:1899:6887
Dsc: Krishan P. Singh, HY7:July 70:1633:7384; James C.I. Dodge and Brian J. Garvey, HY9: Sept 70:1888:7497
TR:136:861
See Russell G. Mein, HY11:Nov 74:1507:10933

Lauriello, P. J.
Thermal Fracturing of Hard Crystalline Rock -- Abstract, RM14:73:751

Laursen, Emmett M.
Bridge Backwater in Wide Valleys, HY4:Apr 70: 1019:7246
TR:136:748
Bridge Design Considering Scour and Risk, TE2:May 70:149:7262
TR:136:432
Dsc, HY9:Sept 70:1923:7497, of "Risks in Hydrologic Design of Engineering Projects", HY4: Apr 70:959:7229
Dsc, HY1:Jan 73:280:9459, of "Role of Economics in Planning Flood Plain Land Use", HY6:June 72:981: 8935
See Herbert B. Osborn, HY7:July 73:1129:9871

Laushey, Louis M.
Dsc, HY9:Sept 73:1642:9961, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295
See Gerard Roberto, CEE:Feb 74:1-433

Lavagnino, Serge
Gabions Guard River Banks Against 50,000 cfs Flows, CE:May 74:88

Laverty, Bruce R.
Civil Engineering Education Requirements for an Electric Utility, with Jim O. Bass, CEE:Feb 74:1-400

Laverty, Finley B.
Dsc, CE:Jan 73:59, on How Urgent the Need to Recycle Solid Waste, CE:Sept 72:107
See Jack J. Coe, IR3:Sept 72:419:9178

Law, Frederick M.
Aesthetics -- Part of Civil Engineering, PP2:Apr 72: 275:8850
Dsc: Chesley J. Posey and Milo S. Ketchum, PP1: Jan 73:128:9460
TR:138:324
Wind Loads For National Airlines Hangar In Miami, TN: ST1:Jan 72:421:8619

Law, Margaret
Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, with P. Arnault, TB:73:Ib-8-475
See Duiliu Sfintesco, TB:73:Ib-8-739

Lawless, G. Paul
See Paul R. Nixon, IR2:June 72:185:8945

Lawlor, Joseph P.
Dsc, CE:Sept 69:48, on Engineers in Public Practice Face the Union Problem, CE:Apr 69:49

Lawrence, Alonzo W.
Introducing Undergraduates to Environmental Quality, CEE:Feb 74:1-83
Unified Basis for Biological Treatment Design and Operation, with Perry L. McCarty, SA3:June 70: 757:7365
Dsc: R. H. Siddiqi, SA1:Feb 71:127:7865; Richard I. Dick and Ali R. Javaheri, SA2:Apr 71:234: 8013
Clo: SA6:Dec 71:930:8555
TR:137:48
Dsc, with Thomas R. Milnes, SA1:Feb 71:121:7865, of "Role of Activated Sludge Final Settling Tanks", SA2:Apr 70:423:7231
Dsc, SA3:June 72:600:8928, of "Treatment of Refinery Waste by Physicochemical Processes", SA4:Aug 71:467:8318
See Joseph H. Sherrard, EE6:Dec 73:773:10220
See Andrew C. Middleton, EE6:Dec 73:960:10180

Lawrence, Ray Ellsworth
Memoir of, TR:136:1353

Lawson, John D.
Dsc, with Robin P. Curtis, HY7:July 70:1632:7384, of "Nonlinear Flow in Porous Media", HY6:Nov 69:1847:6883

Lawton, Frederic L.
Dsc, PO1:Jan 71:259:7784, of " River Diversion for Boundary Dam", PO3:June 70:319:7339
Dsc, PO1:Jan 71:261:7784, of "Design of Carters Pumped Storage Project", PO3:June 70:383:7353
Dsc, PO1:Jan 71:263:7784, of "Properties and Steel Tunnel Liners", PO3:June 70:4115:7357

Lay, Maxwell G.
Beam-Column Design, TB:73:II-15-382
Response of Steel Building in Fire, TB:73:Ib-8-719
Review of Steel Design Standards in Australia, State-of-Art Report 4B, TB:73:II-13-71
Sway in Structures, TB:73:II-16-590
Dsc, ST2:Feb 70:437:7047, of "Rotation Capacity of Beams Under Moment Gradient", ST6:June 69: 1173:6599
Dsc, ST2:Feb 72:536:8684, of "Glossary of Terms Pertaining to Structural Steel Engineering and Design", ST8:Aug 71:2137:8322

Layton, R. F.
A New Analytical Method for Ozone, with Riley N. Kinman, NSCD:71:285

Layton, William P.
William P. Layton Joins ASCE Staff, CE:Apr 71:86

Laza, Robert W.
See Orlando B. Andersland, SA6:Dec 72:927:9443

Lazar, Benjamin E.
Load Balancing Analysis of Cable Stayed Bridges, with Michael S. Troitsky and Matthew McC. Douglass, ST8:Aug 72:1725:9122
TR:138:379
Stiffness-Analysis of Cable-Stayed Bridges, ST7:July 72:1605:9036
Dsc: Mahadevan Hariharan and Mahesh P. Kapoor, ST7:July 73:1661:9826
Clo: ST2:Feb 74:467:10306
TR:139:95
Dsc, ST7:July 71:2031:8225, of "Full-Size Lightweight Concrete Column4", ST2:Feb 71:495: 7903
Dsc, ST10:Oct 71:2631:8411, of "Analysis of Cable-Stayed Girder Bridges", ST5:May 71:1481:8116
Dsc, ST5:May 73:961:9693, of "Design of Cable-Stayed Girder Bridges", ST8:Aug 72:1789:9151

Lazaro, Angel L., III
Full-Range Analysis of Concrete Frames, with Rowland Richards, Jr., ST8:Aug 73:1761:9934
Dsc: Vladimir C. Kalevras, ST6:June 74:1319: 10569
TR:139:440

Leaf, Charles F.
Sediment Yeilds from Central Colorado Snow Zone, HY1:Jan 70:87:7006
Dsc: George Fleming, HY8:Aug 70:1760:7439
Clo: HY2:Feb 71:350:7863
TR:136:389
Dsc, IR3:Sept 72:507:9157, of "Volume of Snowmelt Intercepted by Logging Roads", IR1:Mar 72:1:8770

LeBlond, Paul H.
On the Formation of Spiral Beaches, CE13:72:II-1331

Leclerc, Andre
Desorption and Retentivity of Filtering Materials, with Truong Tri Vu, SA6:Dec 72:937:9401
  Dsc: Kenneth J. Ives, EE5:Oct 73:746:10035; Tagadur P. Halappa Gowda, EE6:Dec 73:959:10180; Malay Chaudhuri and N. Sriramulu, EE1:Feb 74:219:10302
  Clo: EE6:Dec 74:1281:10971
  TR:139:436
Dsc, with Truong Tri Vu, SA6:Dec 72:1046:9393, of "Backwashing of Granular Water Filters", SA6:Dec 71:903:8605

Leclerc, Guy
See David H. Marks, HY4:Aug 71:541:8269

Ledbetter, William B.
See Alvin H. Meyer, SA5:Oct 70:1167:7624
See Roger L. Engelke, TE1:Feb 74:27:10337

Lee, A. J.H.
A General Study of Tornado Generated Missiles, SDNPF:Dec 73:515

Lee, Antoinette J.
Iron, Engineers, and Urbanization, PP2:Apr 73:179:9672
  TR:139:288

Lee, Baum K.
Stochastic Analysis of Dune Bed Profiles, with Harvey E. Jobson, HY7:July 74:849:10657

Lee, C. F.
Dsc, PES:73:III-157, of "Analysis of Embankment Deformations", PES:72:I-817
See Kwan Y. Lo, RM13:72:595
See Kwan Y. Lo, SM9:Sept 72:981:9158

Lee, Charles E.
On Wave Damping in Harbors, WW4:Nov 68:489:6241
  Dsc: Yin-Ben Dai, WW4:Nov 69:595:6869
  Clo: WW3:Aug 70:725:7443
  TR:136:1107

Lee, Chesman A.
Designing Launders for Settling Tanks, CE:Aug 71:69
  TR:137:534

Lee, Chin-Yuan
Macro-Turbulence From Wind Waves, with Frank D. Masch, 12CEC:71:223

Lee, Chok-Hung
See Donald R. F. Harleman, SA5:Oct 68:897:6160
See Donald R. F. Harleman, HY1:Jan 69:495:6323
See Donald R.F. Harleman, HY1:Jan 70:269:6988

Lee, Chun-Hsiung
See Tung-Ming Wang, TN: EM4:Aug 73:919:9898

Lee, Dong Woo
Dsc, ST11:Nov 69:2535:6867, of "Yield Line Analysis of Folded Plate Structures", ST12:Dec 68:2935:6306

Lee, Donovan H.
Two Prestressed Concrete Bridges in Pakistan, CE:Oct 69:61
  TR:135:762
Dsc, CE:May 72:65, on Dynamic Driving Stresses in Prestressed Concrete Piles, CE:Aug 71:55

Lee, Douglass B., Jr.
Analysis of BART Impacts on Bay Area Land Use, TE2:May 72:395:8907
  TR:138:226

Lee, Fang A.
Hydrodynamical Stability of Salt Wedge, HY1:Jan 74:17:10276
  Dsc: Raphael G. Kazmann, HY9:Sept 74:1298:10770

Lee, G. Fred
See Patrick L. Brezonik, SA5:Oct 69:929:6850
See William C. Sonzogni, EE1:Feb 74:153:10318

Lee, George C.
The Socio-Engineering Program at S.U.N.Y.-Buffalo, CEE:Feb 74:1-703
See Barna A. Szabo, EM3:June 69:571:6608
See Bertrand T. Chung, ST7:July 71:1927:8259
See Charles B. Notess, PP1:Jan 73:59:9493
See Ralph R. Rumer, Jr., CEE:Feb 74:1-24

Lee, H. J.
See T. R. Kretschmer, CEO-II:70:679

Lee, Hae
See Vernon H. Neubert, EM1:Feb 70:69:7099

Lee, Han-Chow
See August J. Durelli, ST8:Aug 69:1713:6739

Lee, Harry R.
Runway Roughness Effects on New Aircraft Types, AT1:Nov 68:1:6205
  TR:135:427

Lee, Henry W.L.
Large Deflections of Curved Plates, with Conrad P. Heins, Jr., ST4:Apr 71:1143:8045
  Dsc: B. P. Bagish, ST3:Mar 72:767:8752
  Clo: ST10:Oct 72:2311:9227
  TR:138:1

Lee, Ian K.
Effect of Wall Movement on Active and Passive Pressures, with John R. Herington, SM6:June 72:625:8999
  TR:138:347
Structure And Foundation Interaction Theory, with Howard B. Harrison, ST2:Feb 70:177:7059
  Dsc: Ami Glassman, ST10:Oct 70:2242:7570
  Clo: ST4:Apr 71:1357:8015
  TR:136:827
Structure-Foundation Interaction Analyses, with Peter T. Brown, ST11:Nov 72:2413:9352
  Dsc: Avigdor Rutenberg, ST9:Sept 73:1959:9964
  Clo: ST4:Apr 74:820:10442
  TR:139:155
Dsc, SM3:May 70:1065:7249, of "Model Study of Passive Pressure in Sand", SM4:July 69:969:6655
Dsc, with John R. Herington, SM9:Sept 72:973:9158, of "Finite Element Analyses of Retaining Wall Behavior", SM12:Dec 71:1657:8583
See Stephen J. Hain, GT7:July 74:843:10683

Lee, James H.
Effect of Surface Coatings and Exposure on Slip, with Colin O'Connor and John W. Fisher, ST11:Nov 69:2371:6889
  TR:136:337

Lee, Jiin-Jen
Oscillations in Harbors with Connected Basins, with Fredric Raichlen, WW3:Aug 72:311:9094
  TR:138:351
Resonance in Harbors of Arbitrary Shape, with Fredric Raichlen, 12CEC:71:2163

Lee, Jun W.
Anisotropic Beams by Moment-Differential Method, with John E. Johnson, EM6:Dec 73:1283:10207
  Dsc: Palaniappan Meiappan, EM6:Dec 74:1262:10972; V. N. Tanniru, EM ;J11006:Dec 74:1264:10972
  TR:139:507

Lee, K. N.
Dsc, Spiro Agnew, CE:Jan 74:22

Lee, Kenneth L.

- Buckling of Partially Embedded Piles in Sand, SM1: Jan 68:255:5754
  - Dsc: B. Satyanarayana, SM1:Jan 69:434:6324
  - Clo: SM6:Nov 69:1529:6894
  - TR:135:686
- Comparison of Plane Strain and Triaxial Tests on Sand, SM3:May 70:901:7276
  - Dsc: Shunsuke Takagi Tanagi, SM6:Nov 70:2163: 7643; T. Ramamurthy and P. C. Rawat, SM2: Feb 71:489:7866
  - Clo: SM9:Sept 71:1340:8347
  - TR:136:910
- Drained Strength Characteristics of Sands, with H. Bolton Seed, SM6:Nov 67:117:5561
  - Dsc: Raul J. Marsal, SM1:Jan 69:349:6324; Peter W. Rowe and Laing Barden, SM1:Jan 69:353: 6324
  - Clo: SM5:Sept 69:1261
  - TR:135:271
- Earthquake Induced Settlements in Saturated Sands, with Aurelio Albaisa, GT4:Apr 74:387:10496
- Horizontal Movements Related to Subsidence, with Chih-Kang P. Shen, SM1:Jan 69:139:6336
  - Dsc: Homer L. Cappleman, Jr., 1970
  - Clo: SM4:July 70:1464:7385
  - TR:135:925
- Reinforced Earth Retaining Walls, with Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73: 745:10068
  - Dsc: Leonard R. Herrmann, Karl M. Romstad, Chih-Kang P. Shen and Jerry C-Y Chan, GT8: Aug 74:958:10695; Robert P. Chapuis, GT8:Aug 74:962:10695; David J. Naylor, GT8:Aug 74: 964:10695
  - TR:139:432
- Relative Density and Relative Compaction, with Awtar Singh, TN: SM7:July 71:1049:8264
- Strength of Anisotropically Consolidated Compacted Clay, with Ross A. Morrison, SM6:Nov 70:2025: 7703
  - Dsc: Ravikumar Bhaskaran, SM8:Aug 71:1128: 8270
  - Clo: SM3:Mar 72:295:8751
  - TR:137:221
- Strength of Compacted Clay at High Pressure, with Steven C. Haley, SM6:Nov 68:1303:6239
  - Dsc: T. S. Ramanatha Iyer, SM6:Nov 69:1564: 6894
  - Clo: SM3:May 70:1047:7249
  - TR:135:172
- Strength of Compacted Clay at High Pressure, with Steven C. Haley, PISST:71:345
  - Dsc: T. S. Ramanatha Iyer, PISST:Aug 71:374
  - Clo: PISST:71:378
- Time to Dissolve Air Bubbles in Drain Line, with David K. Black, SM2:Feb 72:181:8728
  - TR:138:179
- Undrained Strength of Anisotropically Consolidated Sand, with H. Bolton Seed, SM2:Mar 70:411:7136
  - Dsc: Ravikumar Bhaskaran, SM1:Jan 71:249:7785
  - Clo: SM8:Aug 71:1123:8270
  - TR:136:786
- Undrained Strength of Compacted Clay, with Robert J. Shubeck, SM1:Jan 71:219:7833
  - Dsc: Ravikumar Bhaskaran, SM10:Oct 71:1503: 8410
  - Clo: SM5:May 72:500:8860
  - TR:137:531
- See W. D. Liam Finn, SM6:Nov 67:297:5611
- See H. Bolton Seed, SM6:Nov 67:333:5618
- See H. Bolton Seed, SM6:Nov 69:1453:6906
- See David K. Black, SM1:Jan 73:75:9484

Lee, Kwang K.

- Computation for Circulation in Stratified Lakes, with James A. Liggett, HY10:Oct 70:2089:7634
  - TR:136:1271
- See James A. Liggett, HY1:Jan 71:15:7793

Lee, Lawrence Chung

- See Hackjoo Hwang, CE:Oct 74:50

Lee, Lawrence H.N.

- Inelastic Buckling of Shallow Spherical Shells, with Teoman Ariman and Roger E. Hoffman, CEO-II: 70:579
- See James C. Hayes, EM6:Dec 70:1107:7765
- See Raouf A. Ridha, EM3:June 71:773:8198
- See Chi-Mou Ni, EM6:Dec 72:1529:9429

Lee, Li-chih

- See Jeremy Isenberg, TE4:Nov 73:887:10166

Lee, Nelson N.

- See George F. Horowitz, HY5:May 71:677:8110

Lee, Peter C.Y.

- See Yung-shih Wang, EM4:Aug 74:719:10720

Lee, Peter Y.

- Driving Behavior of Long Steel Piles, PES:72:I-1259

Lee, R. S.

- See Nam P. Suh, GT3:Mar 74:295:10411

Lee, Robert G.

- See Bernard A. Vallerga, ASC73:Mar 73:63

Lee, Robert H.

- See John E. Goldberg, EM5:Oct 68:1127:6181
- See F. Wayne Klaiber, ST6:June 73:1287:9818
- See Wayne C. Kroenke, ST7:July 73:1371:9835
- See Gerald A. Leonards, CEE:Feb 74:1-39

Lee, Seng-Lip

- Hyperbolic Cooling Towers Under Wind Load, with Phillip L. Gould, ST5:Oct 67:487:5532
  - Dsc: Ernest L. Albasiny and David W. Martin, ST7:July 68:1850:6017; Kuang-Han Chu and Marvin Jones, ST7:July 68:1853:6017
  - Clo: ST9:Sept 69:1969:6755
  - TR:135:386
- See William Y.J. Shieh, EM5:Oct 68:1089:6176
- See David S. Perelman, ST11:Nov 68:2597:6235
- See Richard A. Parmelee, EM6:Dec 68:1295:6264
- See Phillip L. Gould, EM.5:Oct 69:1083:6820
- See Kasem Chantaramungkorn, TN: ST1:Jan 73:234: 9464
- See Chitti Vijakkhana, ST3:Mar 74:645:10433
- See Chesada Kasemset, EM5:Oct 74:965:10881

Lee, T. M.

- Flexure of Circular Plate by Concentrated Force, EM3:June 68:841:6006
  - TR:135:589

Lee, Theodore T.

- Design of Filter System for Rubble-Mound Structures, CE13:72:III-1917
- Estuary Inlet Channel Stabilization Study Using A Hydraulic Model, 12CEC:71:1117
- Dsc, BMS:71:206, of "Full Scale Observation of Berthing Impacts: Their Interpretation", BMS:71: 203
- Dsc, WW1:Feb 73:131:9527, of "Ultimate Energy Design of Prestressed Concrete Fender Piling", WW4:Nov 71:647:8527

Lee, Thomas M.

- Effect of Transportation Planning on Flood Plain Management, HY3:Mar 72:475:8761
  - Dsc: Stuart G. Sriramulu and G. Padmanabhan, HY3:Jan 73:269:9459
  - TR:138:178
- Management Problems in Flood Plain Areas, WW3: Aug 72:357:9121
  - TR:138:408
- Wisconsin's Shoreland Management Program, UP1: July 72:45:9054
  - Dsc: Richard T. Schmidt, UP2:Sept 73:261:9966
  - Clo: UP2:Nov 74:203:10902
  - TR:139:25

Lee, Thomas N.

- See Robert E. Stewart, CEO-II:70:1151
- See Robert E. Stewart, SA4:Aug 71:485:8340

Lee, William C.
The Effect of Solids on Sewage Disinfection, with D. H. Waller, NSCD:71:203

Lee, Y. C.
See Stanley J. Jarecki, PO4:Dec 71:817:8587

Leech, Leslie V.
See Charles S. Gray, TB:73:II-13-51

Leeds, David J.
Report on Conference on 1971 San Fernando, Ca., Earthquake, CE:May 72:58
  Dsc: Ramzi H. Ferahian, CE:Aug 72:68; Robert V. Whitman, CE:Aug 72:68
  TR:138:254

Leendertse, Jan J.
Dsc, HY6:Nov 69:2175:6866, of "New Horizons in the Field of Tidal Hydraulics", HY1:Jan 69:147:6346

Lefebvre, Guy
Three-Dimensional Finite Element Analyses of Dams, with James M. Duncan and Edward L. Wilson, SM7:July 73:495:9857
  Dsc: A. V.G. Krishnayya and Zdenek Eisenstein, GT4:Apr 74:464:10440
  Clo: GT10:Oct 74:1164:10838
  TR:139:347
See James M. Duncan, SM12:Dec 73:1153:10237

LeFeuvre, Albert R.
Sediment-Pickup Function, with Hilmi D. Altinbilek and Marion R. Carstens, HY10:Oct 70:2051:7636
  Clo: HY2:Feb 72:387:8681
  TR:137:503

Leffler, Robert E.
See Ronald W. Frost, SM2:Feb 71:509:7913

Legarra, J. A.
A Highway Administrator Looks at Community Values, with T. R. Lammers, CE:Sept 69:54
  TR:135:820

Legas, James
Preliminary Design and Construction Concepts for Auburn Dam, ECCD:72:181
Preliminary Design and Construction Concepts for Crystal Dam, ECCD:72:191

Legget, Robert F.
Controlling Fires in Tall Buildings, CE:Nov 71:63
  TR:137:718
Dsc, Seismic Zones in Canada, CE:July 70:54
Dsc, SM9:Sept 71:1347:8347, of "Caisson Construction Problems and Correction in Chicago", SM2:Feb 71:417:7934
Dsc, SM7:July 73:564:9825, of "Subsurface Investigations for Design and Construction of Foundations of Buildings: Part I", SM5:May 72:481:8917
Dsc, SM7:July 73:564:9825, of "Subsurface Investigation for Design and Construction of Buildings: Part II", SM6:June 72:557:8944
Dsc, SM7:July 73:564:9825, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV", SM7:July 72:749:9070
Dsc, SM7:July 73:564:9825, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Appendices A and B", SM8:Aug 72:771:9103
Dsc, CE:May 74:22, on First Vehicular Cable-Stayed Bridge in the U.S., CE:Nov 73:50

Lehman, Frederick
Rivers in the City, by Roy Mann (Book Review), CE:Aug 74:28

Lehnert, Johannes
See F. P. Robertson, CE:Dec 72:54

Leicester, Robert H.
Southwell Plot for Beam-Columns, EM6:Dec 70:945:7750
  TR:136:1260

Leidel, Frederick O.
See Kaye Finch, CEE:Feb 74:1-1015

Leimbach, Karl-Robert
Free Vibration of Two-Dimensional Frameworks, with Donald McDonald, ST2:Feb 70:267:7082
  TR:136:558

Leininger, K. V.
The Lure of Non-Profitable Service, CE:Aug 70:78

Leininger, Kurt V.
Dsc, CE:Mar 71:56, on Is Technology Relevant?, CE:Oct 70:44
Dsc, CE:Apr 72:59, on Anti-Technology--The New Myth, CE:Jan 72:68

Leisch, Joel P.
New Concepts in Rail-Bus Interchange, TE1:Feb 74:103:10328

Leiser, Curtis P.
See Charles V. Gibbs, SA6:Dec 72:951:9402

Leite, J. Gervasio A. F.
Dsc, BMS:71:206, of "Full Scale Observations on Berthing Impacts: Their Interpretation", BMS:71:198

Le Lievre, Brian
Dsc, SM5:Sept 68:1193:6089, of "Applications of Limit Plasticity in Soil Mechanics", SM5:Sept 67:101:5424

Lelu, Victorien
Stone Asphalt Cores Waterproof French Dams, CE:Apr 72:70
  TR:138:206

LeMee, Eugene
See Francois Baguelin, SM11:Nov 72:1129:9377

LeMehaute, Alain
See Francois Baguelin, SM11:Nov 72:1129:9377
See Francois Baguelin, EFSE:Aug 74:312

LeMehaute, Bernard
A Comparison of Fluvial and Coastal Similitude, 12CEC:71:1077

Le Messurier, Andrew P.
See Edgar Lightfoot, ST6:June 74:1297:10632

Le Messurier, William J.
Design Methods Based on Stiffness, Summary Report, TB:73:II-17-715

Lemieux, Pierre F.
Efficient Algorithm For Distribution Networks, HY11:Nov 72:1911:9336
  Dsc: Uri Shamir, HY8:Aug 73:1283:9895; Trevor R. Fietz, HY11:Nov 73:2136:10109
  Clo: HY8:Aug 74:1161:10696
  TR:139:128
Variational Principle in Fluid Dynamics, with Tharakkal E. Unny and R. N. Dubey, EM6:Dec 70:1031:7731
  Errata: EM5:Oct 71:1559:8406
  TR:136:1252

Lemmon, Terrence E.H.
See Michael A. Garnett, ST3:Mar 72:587:8785

LeMoal, Gerald A.
See Michel A. Sargious, TE4:Nov 71:579:8492

Lemon, Charles F.
Evaluation System for Multiple Objective Planning, IRS:Sept 72:371

Lenau, Charles W.
- Contamination of Discharge Well from Recharge Well, HY8:Aug 73:1247:9958
  - TR:139:349
- Dispersion from Recharge Well, EM2:Apr 72:331:8813
  - TR:138:197
- Flow Through Spillway Flip Bucket, with John J. Cassidy, HY2:Mar 69:633:6478
  - TR:135:130
- Potential Flow Over Spillways at Low Heads, EM3:June 67:95:5287
  - Dsc: George D. Matthew, EM1:Feb 68:354:5772
  - TR:135:316
- Seepage Under Structure on Four Soil Strata, EM2:Apr 71:223:8058
  - TR:137:892
- Dsc, EM4:Aug 68:1009:6055, of "Solution for Gravity Flow Under a Sluice Gate", EM1:Feb 68:153:5797
- Dsc, IR4:Dec 69:624:6930, of "Surface Irrigation Hydraulics and Kinematics", IR4:Dec 68:419:6284
- See Allen T. Hjelmfelt, HY7:July 70:1567:7430

Lenke, Richard E.
- Architectural-Structural Interaction, Theme Report, TB:73:Ia-12-1057

Lennertz, C. Robert
- Settlement of Footings on a Non-Uniform Foundation, PES:72:I-929

Lennox, William C.
- See Jon F. Sykes, GT11:Nov 74:1185:10957
- See Jon F. Sykes, GT11:Nov 74:1203:10956

Lenoe, Edward M.
- Testing and Design of Advanced Composite Materials, EM6:Dec 70:809:7729
  - TR:136:1304

Lenschow, Rolf J.
- See Alex E. Cardenas, ST11:Nov 72:2587:9368

Lenton, Roberto
- See John C. Schaake, Jr., IR3:Sept 73:409:9962

Lenz, Arno T.
- See Colby V. Ardis, HY1:Jan 69:383:6365

Lenz, Robert G.
- Suction Wells Dewater Large Construction Site, CE:Feb 70:40
  - TR:136:175

Lenzen, Kenneth H.
- Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, TB:73:II-17-667

Leon, George F.
- Intersecting Titanium Spheres for Deep Submersibles, EM3:June 71:981:8219
  - TR:137:1013

Leonard, George Kinney
- Memoir of, TR:136:1354

Leonard, H. Jack
- Benefits from TOPICS-type Improvements, CE:Feb 71:62
  - TR:137:155

Leonard, John W.
- Construction Cost and Design Considerations, RCCD:70:31
- Dynamic Response of Initially-Stressed Membrane Shells, EM5:Oct 69:1231:6859
  - Errata: EM5:Oct 70:791:7574
  - TR:136:822
- Finite Element Solutions To Differential Equations, with T. Taz Bramlete, TN: EM6:Dec 70:1277:7715
- Incremental Response of 3-D Cable Networks, TN: EM3:June 73:621:9765
- Inflatable Shells: Nonsymmetric In-Service Loads, EM5:Oct 68:1231:6190
  - Errata: EM6:Dec 68:1574:6260
  - Errata: EM5:Oct 69:1287:6800
  - TR:135:930
- Nonlinear Dynamics of Cables with Low Initial Tension, EM2:Apr 72:293:8805
  - TR:138:170
- Nonlinear Dynamics of Curved Cable Elements, TN: EM3:June 73:616:9765
- Pressure-Stabilized Drop-Shaped Tanks, TN: EM10:Oct 73:1110:10041
- Problems Related to the Construction of Dam Foundation from a Contractors' Viewpoint, EFFD:Mar 74:105
- Reporter's Notes -- Session VI, ECCD:72:515
- State-of-the-Art in Inflatable Shell Research, EM1:Feb 74:17:10334
- Strongly Curved Finite Element for Shell Analysis, with Chin-Tsang Li, EM3:June 73:515:9805
  - TR:139:336
- See Chin-Tsang Li, EM3:June 73:495:9802

Leonards, Gerald A.
- A New Civil Engineering Curriculum at Purdue, with Martin J. Gutzwiller and Robert H. Lee, CEE:Feb 74:1-39
- Session III - Shallow Foundations, PES:73:III-169
- Settlement of Pile Foundations in Granular Soil, PES:72:I-1169
- Dsc, with Adolph G. Altschaeffl, SM1:Jan 71:269:7785, of "Evolution of Tidewater Port", WW2:May 70:387:7287
- See Michael Bozozuk, PES:72:I-299
- See William F. Brumund, SM1:Jan 72:27:8648

Leonarz, John E.
- Instant Relief With New Stereo Image Alternator, SU2:Sept 70:257:7564
  - TR:137:115

Leong, Tuck Wah
- Creep and Shrinkage in Reinforced Concrete Beams, with Robert F. Warner, ST3:Mar 70:509:7150
  - TR:136:607

Leonhardt, Fritz
- Cable Suspended Roof for Munich Olympics, with Jorg Schlaich, CE:July 72:41
  - Dsc: Joseph R. Passonneau, CE:Sept 72:61
  - TR:138:319
- Dsc, ST6:June 70:1243:7314, of "Diagonal Tension Cracking in Concrete Beams with Axial Forces", ST9:Oct 69:1887:6776

Leonov, A. I.
- On the Generation of the Ocean Internal Waves, with J. Z. Miropolsky, ISSP:Aug 72:535

Lepore, John A.
- Stability of Cylindrical Shells under Random Excitation, with Robert A. Stoltz, EM3:June 74:531:10628

Lepper, Robert
- Behavior and Transit Vehicle Design, MTI:May 72:37

Leppke, Delbert M.
- Construction Of Multibarrier Containment Vessels, with C. Alexander and Robert S. Webb, CO1:Mar 71:53:8002
  - Dsc: Robert E. Shewmaker, CO2:Nov 71:344:8482
  - Clo: CO2:Sept 72:357:9155
  - TR:137:932
- See Alexander C. Koehler, PO2:Oct 69:203:6829

Leps, Thomas M.
- Analysis of Failure of Baldwin Hills Reservoir, PES:72:I-507
  - Dsc: Robert O. Castle and T. Leslie Youd, PES:73:III-91
  - Clo: PES:73:III-100

Review of Shearing Strength of Rockfill, SM4:July 70:1159:7394
  Dsc: Thomas F. Thompson, SM1:Jan 71:277:7785; Raul J. Marsal, SM3:Mar 71:590:7943; Don C. Banks and Bruce N. Mac Iver, SM5:May 71:791:8083; George F. Sowers, SM5:May 71:794:8083
  Clo: SM12:Dec 71:1706:8556
  TR:137:40
Dsc, SM3:May 68:809:5922, of "Seismic Failures of Chilean Tailings Dams", SM6:Nov 67:237:5582

LeSchack, Leonard A.
Estimating Land-Clearing Costs Using Aerial Photograph, with Robert G. Brown, CE:Feb 69:66
  Dsc: Martin E. Adams, CE:Aug 69:62
  TR:135:532

Le Sciellour, Guy F.
See Jean J. Janin, CO1:June 70:61:7382

Lesesne, Edward H.
Impact of Multiple-Purpose Reservoir System on Regional Environment, PP3:July 72:373:9029
  TR:138:370

Lesleighter, Eric J.
Dsc, HY6:June 70:1369:7310, of "Fluctuating Pressures in Spillway Stilling Basins", HY6:Nov 69:2071:6915

Lesser, Arthur, Jr.
Costs and Benefits Reating to Paper Mill Waste Treatment, with Michael A. Tirabassi, EI1:Jan 74:61:10279

Lessig, Lester L.
Memoir of, TR:137:1064

Leu, Keh-Chum
See Gunnar A. Harstead, ST10:Oct 68:2371:6173

Leung, Paul
Power Plant Cycles for Dry Cooling Towers, with Raymond E. Moore, PO4:Dec 71:729:8565
  TR:137:938
Water Consumption Study for Navajo Plant, with Raymond E. Moore, PO4:Dec 71:749:8564
  Dsc: Charles A. Washburn, PO1:May 73:9690

Leung, Y. W.
Dsc, with D. J. Laurie Kennedy, ST12:Dec 71:2900:8557, of "Eccentrically Loaded Bolted Connections", ST3:Mar 71:765:7956

Leuniz, William E.
See Kenneth R. Ware, SM12:Dec 73:1135:10239

Leutheusser, Hans J.
Effects of Inflow Condition on Hydraulic Jump, with Viswanathan C. Kartha, HY8:Aug 72:1367:9088
  Dsc: V. Mura Hari, HY3:Mar 73:550:9580; Edward H. Wilson, HY4:Apr 73:698:9637; Chesley J. Posey, HY5:May 73:859:9689
  Clo: HY11:Nov 73:2130:10109
  TR:139:78
Experiments on Plane Couette Flow, with Vincent H. Chu, HY9:Sept 71:1269:8367
  Dsc: M. H. Abdul Khader and H. Suresh Rao, HY6:June 72:1080:8925
  Clo: HY12:Dec 72:2221:9391
  TR:138:7
Extreme Roughness of Natural River Channel, with W. Orville Chisholm, HY7:July 73:1027:9831
  Dsc: Y. Lam Lau, HY7:July 74:1079:10635; Omkar N. Wakhlu, HY10:Oct 74:1484:10839
  TR:139:314
Water Pollution Control by Hydraulic Aeration, with Francois J. Resch, HYB:Aug 73:315
Dsc, HY2:Mar 69:737:6433, of "Structural Damage from Tsunami at Hilo Hawaii", HY4:July 68:961:6037
Dsc, ST11:Nov 69:2537:6867, of "Wind Loads on Kresge Auditorium and Travelers Building", ST1:Jan 69:1:6330
Dsc, HY1:Jan 74:244:10251, of "Water-Hammer Charts for Various Types of Valves", HY1:Jan 73:167:9500
See Viswanathan C. Kartha, HY7:July 70:1469:7415
See Francois J. Resch, HY1:Jan 74:137:10297

Levelius, William H.
Quality Control Criteria, Theme Report, TB:73:Ib-9-749

LeVere, Richard C.
High-mount Interchange Lights, CE:May 71:44
  TR:137:340

Levi, Enzo
Experiments on Unstable Vortices, EM3:June 72:539:8948
  Dsc: Habib O. Anwar, EM1:Feb 73:227:9522; Chesley J. Posey, EM4:Aug 73:883:9894
  Clo: EM5:Oct 73:1089:10041
  TR:139:48
Dsc, HY3:Mar 71:465:7940, of "136", HY7:July 70:1403:7399

Levi, Franco
Limit States Design, Theme Report, TB:73:III-26-843

Levinson, Herbert S.
The Economics and Importance of Speed, HW1:June 68:1:5972
  TR:135:808
Modal Choice and Public Policy in Transportation,, PP1:Jan 73:65:9514
  Errata: EI1:Jan 74:87:10252
  TR:139:211
Optimizing Bus Use of Urban Highways, with William F. Hoey, TE2:May 74:443:10558
Planning the Pedestrian Environment, BP73:Dec 73:37
Potential Applications of People Mover Systems, MTI:May 72:281
See John G. Schoon, TE3:Aug 74:611:10731

Levinson, Mark
Dsc, EM6:Dec 71:1756:8551, of "Nonconservative Stability by Finite Element", EM3:June 71:645:8204

Levitsky, Myron
Analytical Determination of Pressure on Formwork, EM3:June 73:551:9814
  TR:139:353

LeVitt, R. Richard
New Methods in Construction Systems, CO3:Sept 74:211:10788

Levy, Leon
Dsc, CE:Oct 72:63, on An American Engineer in Israel, CE:June 72:63

Levy, Matthys P.
High-Rise Panel Structures, with Istvan S. Varga, ST5:May 72:975:8894
  Dsc: Sebastine Selvaraj, ST7:July 73:1648:9826
  TR:139:56

Levy, Roy
Computer Design of Antenna Reflectors, with Robert J. Melosh, ST11:Nov 73:2269:10178
  TR:139:518
Random Processes for Earthquake Simulation, with Frank Kozin and Robert B.B. Moorman, EM2:Apr 71:495:8057
  Dsc: Ross B. Corotis, EM5:Oct 71:1591:8406; Loren D. Lutes, EM1:Feb 72:271:8680
  Clo: EM6:Dec 72:1593:9390
  TR:137:940

Lewicki, Bohdan
Joints, Precast Panel Buildings, State-of-Art Report 2, with Adrian Pauw, TB:73:III-21-171

Lewis, Albert D.M.
See Natarajan Annamalai, ST10:Oct 72:2235:9258

Lewis, Alfred T.
Auburn Dam -- World's Longest Arch Dam, PO2: Oct 72:293:9243
Errata: PO2:Nov 73:436:10111
TR:139:55

Lewis, Brian J.
The Civil Engineer and Elective Office, CE:Apr 74: 65

Lewis, Edward P.
Dsc, CE:Mar 70:42, on Black People Call for ASCE Social Action, CE:Dec 69:73

Lewis, Edwin A.
Economic Impact of the Conversion of Water from Irrigation to Municipal and Industrial Use in the Rio Grande Basin of New Mexico, IR73:Aug 73:67

Lewis, G. C.
See J. R. Busch, IRS:Sept 72:45

Lewis, L. Lawrence
Dsc, CE:Nov 73:24, on Practitioners Teach Students Art of Highway Engineering, CE:Jan 72:45
See Schaefer J. Dixon, CE:June 70:56

Lewis, Lloyd
In Situ Investigations Of Ocean Sediments, with Vito A. Nacci and James Gallagher, CEO-II:70:641

Lewis, Lyle E.
See Eugene A. Miller, SM5:Sept 70:1817:7499
See Eugene A. Miller, PISST:71:226

Lewis, Robert Caird
Three Yards and a Cloud of Dust: An Empirical Approach to Career Development for the Smaller Engineering Firm in Transition, CEE:Feb 74:1-834

Lewis, Roland W.
Numerical Analysis of Electro-Osmotic Flow in Soils, with C. Humpheson, SM8:Aug 73:603:9912
Dsc: Ramanath K. Katti and Trimbak V. Pavate, GT8:Aug 74:953:10695
TR:139:380
See H. E. Evans, SM2:Mar 70:671:7183

Lewis, W. Deming
Banquet Remarks at the Tall Buildings Conference, TB:73:C-514

Ley, James E.
Foundations of Existing Dams -- Seepage Control, IMROD:Sept 73:584

Leyland, George P.
Survey of Geographic Base Files, SU2:Sept 70:201: 7529

L'Hermite, Robert
See E. James White, TB:73:Ib-9-901

Li, Bang-il
See Kenji Ishihara, SM1:Jan 72:119:8622

Li, Chin-Tsang
Finite Element Analysis of Inflatable Shells, with John W. Leonard, EM3:June 73:495:9802
Dsc: EM6:Dec 74:1256:10972
TR:139:330
See John W. Leonard, EM3:June 73:515:9805

Li, Chung Y.
Comprehensive Sewage Plan Involves Open Space Preservation, CE:Jan 73:85
TR:139:40
Value Engineering--A Logical Technique for Earth Dam Construction, CE:June 69:83
TR:135:302

Li, Kun
See Kamlesh K. Jain, EE4:Aug 73:411:9945

Li, Ruh-Ming
Effect of Tall Vegetation on Flow and Sediment, with Hsieh W. Shen, HY5:May 73:793:9748
Dsc: Edward A. Hansen, HY1:Jan 74:255:10251; G. J. Klaassen, HY3:Mar 74:497:10379
Clo: HY10:Oct 74:1484:10839
TR:139:289
Dsc, with Daryl B. Simons, HY11:Nov 73:2145: 10109, of "Sediment Yield Computed With Universal Equation", HY12:Dec 72:2087:9426
See Hsieh W. Shen, HY5:May 73:771:9733
See Hsieh W. Shen, TN: HY11:Nov 73:2169:10/47

Li, Shu-T'ien
Basic Construction Principles in Higher Latitudes, CO1:Mar 74:33:10399
Dsc: Altaf Hussain, CO2:June 74:192:10563; Leonid G. Kovalevsky, CO3:Sept 74:493:10768; Glenn E. Reynolds, CO4:Dec 74:651:10970; W. R. Rogers, CO4:Dec 74:652:10970; Ronald M. Grider, CO4:Dec 74:653:10970; Sandor Popovics, CO4:Dec 74:654:10970
Construction of Prestressed Concrete Structure, by Ben C. Gerwick, Jr. (Book Review), CE:Feb 72:18
Gap-Graded Aggregates for Mass Concrete, ECCD: 72:101
Pertinent Techniques for Compacting Concrete, with Donald A. Stewart, CO2:Sept 72:173:9181
Dsc: Aubrey E. Payton and Audrey P. Rabb, CO1:July 73:218:9822
Clo: CO1:Mar 74:101:10377
TR:139:225
Ultimate Energy Design of Prestressed Concrete Fender Piling, with Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
Dsc: Ben C. Gerwick, Jr., WW2:May 72:293: 8863; Ganpat S. Pandit, WW3:Aug 72:422:9081; Yue-Chyou Yang, WW3:Aug 72:423:9081; Theodore T. Lee, WW1:Feb 73:131:9527
TR:138:81
Dsc, PO2:Oct 67:105:5479, of "Dam Safety-An Objective of Federal Licensing", PO1:Mar 67:67: 5155
Dsc, EM1:Feb 69:299:6371, of "Behavior of Square Tanks on Elastic Foundations", EM3:June 68:753: 5985
Dsc, TE2:May 69:396:6527, of "Comprehensive River Basin Planning", PL1:Oct 68:11:6136
Dsc, CO1:July 69:133:6640, of "The Rheology of Fresh Concrete", CO1:Jan 68:55:5752
Dsc, CE:Sept 71:72, on Engineering-Architecture Interprofessional Practice, CE:Apr 71:37

Li, Wen-Hsiung
DO-Sag in Oscillating Flow, with Michael Edwin Kozlowski, EE4:Aug 74:837:10713
Effects of Dispersion on DO-sag in Uniform Flow, SA1:Feb 72:169:8743
Dsc: James P. Bennett, SA5:Oct 72:802:9225
Clo: EE2:Apr 73:157:9635
TR:138:251
Tidal Flow in Exponentially Varying Estuaries, with Michael Edwin Kozlowski, HY11:Nov 74:1649: 10967

Liang, Rex K.
Design Conduit System By Dynamic Programming, CO1:Mar 71:383:7998
Dsc: Mark H. Jordan, CO2:Nov 71:342:8482
Clo: CO2:Sept 72:353:9155
TR:137:903

Liang, Tung
Design Conduit System by Dynamic Programming, HY3:Mar 71:7988
  Dsc: John A. Roberson and Donald L. Bender, HY12:Dec 71:2106:8552
  Clo: HY6:June 72:1077:8925
  TR:137:680
See I-pai Wu, IR3:Sept 70:319:7543
See I-pai Wu, IR1:Mar 72:117:8776

Liang, Wen S.
See Clifford D. Smith, IR4:Dec 69:493:6954

Liao, Cheng-Sun
See Ju-Chang Huang, SA5:Oct 70:1057:7603

Liapunov, Sviatoslav
Ultimate Strength of Multistory Steel Rigid Frames, ST8:Aug 74:1643:10750

Libby, James R.
Dsc, CE:May 71:52, on Positive Moment and Inflection Points for Continuous and Fixed Beams, CE:Dec 70:30
Dsc, CE:Aug 71:38, on Epoxy Injections Repair Historic Prestress Concrete Bridge, CE:Mar 71:39
Dsc, CE:Dec 72:58, on Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), CE:June 72:56
Dsc, ST9:Sept 74:1962:10772, of "Structural Response of Concrete Box Girder Bridge", ST10:Oct 73:2031:10069

Libove, Charles
Two Means of Alleviating Rush-Hour Crowding, TE4:Nov 73:845:10144
  TR:139:504

Liddell, Donald M.
Surge Problems in Canals with High-Lift Locks, WW2:Nov 69:467:6898
  Dsc: Edward Soucek, WW2:May 70:579:7252; James S. Windsor, 1970; Raymond Saarits, WW3:Aug 70:751:7443; John S. McNown, WW4:Nov 70:861:7645
  TR:137:10

Lie, T. T.
Optimum Fire Resistance of Structures, ST1:Jan 72:215:8638
  Dsc: Paul S. Symonds, ST12:Dec 72:2822:9395
  Clo: ST6:June 73:1322:9763
  TR:139:23
See W. W. Stanzak, ST5:May 73:837:9719

Liebman, Ernst
Legal Problems in Regulating Flood Hazard Areas, HY11:Nov 73:2113:10135
  TR:139:440

Liebman, Jon C.
Dsc, with Earl D. Brill, Jr., SA5:Oct 71:786:8409, of "Optimization in Design of Hydraulic Network", SA2:Apr 71:141:8032
Dsc, SA1:Feb 72:267:8682, of "Selecting Solid Waste Disposal Facilities", SA4:Aug 71:443:8280
See Marcus M. Truitt, SA2:Apr 69:289:6508
See David H. Marks, TE3:Aug 69:584:6708
See David H. Marks, UP1:Mar 70:81:7164
See David H. Marks, SA1:Feb 71:130:7865
See David H. Marks, UP1:Apr 71:15:8027

Liebman, Judith S.
Women in Civil Engineering Education, CEE:Feb 74:1-993

Liff, Sally D.
See Salvatore J. Bellomo, UT73:May 73:273

Liggett, James A.
Cell Method for Computing Lake Circulation, HY3:Mar 70:725:7152
  Dsc: Chun-Tsung Wang, HY8:Aug 70:1777:7439
  Clo: HY10:Oct 71:1754:8407
  TR:136:1239
Circulation in Shallow Homogeneous Lakes, with Christos Hadjitheodorou, HY2:Mar 69:609:6454
  TR:135:179
Properties of Circulation in Stratified Lakes, with Kwang K. Lee, HY1:Jan 71:15:7793
  TR:137:207
Unsteady Circulation in Shallow, Homogeneous Lakes, HY4:July 69:1273:6686
  TR:135:18
Dsc, HY1:Jan 70:292:6988, of "One-Dimensional Equation of Open-Channel Flow", HY3:May 69:861:6557
See Kwang K. Lee, HY10:Oct 70:2089:7634
See Richard H. Gallagher, HY7:July 73:1083:9855
See J. Denis Newbold, EE1:Feb 74:41:10346

Lightenberg, F. K.
What Safety Margin is Necessary in a Structure?, TB:73:Ib-10-1032

Lightfoot, Edgar
Elastic Analysis of Frameworks with Elastic Connections, with Andrew P. Le Messurier, ST6:June 74:1297:10632
Dsc, ST9:Sept 70:1968:7567, of "Analysis of Shear Walls with Openings", ST10:Oct 69:2093:6824

Ligman, Kenneth
Household Wastewater Characterization, with Neil Hutzler and William C. Boyle, EE1:Feb 74:201:10372

Likens, Gene E.
Effects of Deforestation on Water Quality, IAWM:72:133

Likins, James E.
Engineering Education for Minority Students, CE:Apr 70:80

Lilienthal, Paul A.
See Edwin J. Chamberlain, TE3:Aug 73:678:9896

Lill, Richard A.
Dsc, TE4:Nov 73:967:10110, of "Energy-Intensiveness of Transportation", TE1:Feb 73:111:9558

Lim, Lee C.
Sidesway Instability of Unbraced Tube Buildings, with Robert J. Mc Namara, TB:73:II-16-598
Stability of Novel Building Systems, State-of-Art Report 5, with Robert J. Mc Namara, TB:73:II-16-499
See Lynn S. Beedle, ST9:Sept 69:1911:6781

Lima, Peter M.
Dsc, UP2:Nov 74:205:10902, of "Quantifying Impact of Transportation Systems", UP1:Mar 74:79:10416

Limber, T. P.
Dsc, CE:Aug 73:40, on Our Priceless Heritage, Our Youth, CE:Mar 73:76

Limpert, Fred A.
Data Retrieval on Thermal Pollution, CE:Nov 70:53
  TR:136:1033
Information Sources on Water Quality, Including Thermal Pollution, SA3:June 72:569:8987
  Errata: EE1:Feb 73:106:9521
  Errata: EE4:Aug 73:558:9893
  TR:139:317

Lin, Anching
Dsc, HY10:Oct 71:1781:8407, of "Effect Of Side Walls On Flow Past Bluff Bodies", HY1:Jan 71:65:7788
See P. C. Chang, ISSF:Aug 72:501

Lin, Cheng-nan
See John S. Gladwell, HY1:Jan 71:207:7783

Lin, Chi Yu
See John A. Roberson, HY7:July 72:1187:9061

Lin, Chi-Wen
Nonsymmetric Vibrations of Thin Cylindrical Shells, ST10:Oct 70:2175:7632
Dsc: Salman H. Abu-Sitta, ST4:Apr 71:1378:8015; Paul Seide, ST4:Apr 71:1380:8015; Geoffrey B. Warburton, ST5:May 71:1648:8084
Clo: ST12:Dec 71:2889:8557
TR:137:214
A Simplified Approach to Compute Natural Frequencies of Vertical Tanks and Heat Exchangers with Skirt Supports, SDNPF:Dec 73:35

Lin, Fung J.
Behavior of Laced and Battened Structural Members, with Ernst C. Glauser and Bruce G. Johnston, ST7: July 70:1377:7404
TR:136:980

Lin, J. D.
Dsc, EM5:Oct 74:1055:10837, of "Open-Channel Flow Equations Revisited", EM5:Oct 73:979:10073

Lin, Jung-Tai
See John F. Kennedy, HY4:Apr 73:605:9664

Lin, Pang-Mou
Modeling Sedimentation at Inlet and Coastal Region, CE13:72:II-883
See Yuan Jen, 12CEC:71:1469
See Yuan Jen, WW3:Aug 71:567:8342

Lin, Sehng-Rong
Large Deflection of Axisymmetric Shell with Creep Strain, with Tung-Hua Lin and Bernard Mazelsky, EM1:Feb 74:79:10368

Lin, Sheng Ching
See Cenap Oran, ST7:July 73:1349:9846

Lin, Shundar
Evaluation of Fecal Streptococci Tests for Chlorinated Secondary Sewage Effluents, EE2:Apr 74:253:10452
Dsc, SA6:Dec 72:1049:9393, of "Bacterial Dieoff in Ponds", SA1:Feb 72:59:8714
Dsc, EE3:June 74:786:10564, of "Sewage Chlorination Versus Toxicity -- A Dilemma?", EE6: Dec 73:761:10190

Lin, Tse Wen
Equivalent Ultimate Axial Load for Reinforced Concrete Column Under Biaxial Bending, CE:June 70:69
TR:136:495

Lin, Tung D.
Thermal Stresses in Multilayer Anisotropic Shells, with Donald E. Boyd, EM3:June 71:829:8206
TR:137:289

Lin, Tung-Hua
See Sehng-Rong Lin, EM1:Feb 74:79:10368

Lin, Yen-Kuang
See Donald H. Gray, SM4:Apr 72:361:8840

Linaweaver, F. Pierce
Dsc, CE:Feb 74:24, on Land Application of Treated Sewage, CE:Sept 73:103

Lincoln, Alexander R.
See Jason C. Yu, TE2:May 73:297:9728

Lind, Niels C.
Buckling of Longitudinally Stiffened Sheets, TN: ST7:July 73:1686:9828
Consistent Partial Safety Factors, ST6:June 71:1651: 8166
TR:137:980
Numerical Approximation For Reliability Analysis, TN: ST3:Mar 72:797:8755
Safety Level Decisions, State-of-Art Report 3, with E. Basler, TB:73:Ib-10-961
Dsc, ST6:June 68:1647:5966, of "Stresses in a Pressurized Cylinder With a Hole", ST5:Oct 67: 383:5524
Dsc, EI1:Jan 74:94:10252, of "Ethical Optimization in Engineering", PP2:Apr 73:223:9669
See Om Dutt, ST6:June 70:1061:7330
See Kenneth W. Neale, EM5:Oct 70:711:7610
See Mayasandra K. Ravindra, ST7:July 73:1541:9864
See Saleh B. Abdel-Baset, ST11:Nov 73:2215:10128
See Wilfred W.C. Siu, ST11:Nov 73:2245:10159
See Gerald Schorn, EM1:Feb 74:1:10332
See Abraham M. Hasofer, EM1:Feb 74:111:10376
See Mayasandra K. Ravindra, ST9:Sept 74:1789: 10779

Lindberg, H. A.
Dsc, CE:Dec 73:22, on Designing Bridge Decks That Won't Deteriorate, CE:Aug 73:43

Lindell, James E.
See Wallis S. Hamilton, HY6:June 71:805:8195

Linder, Ernest N.
Commentary, CEWAU:74:262

Lindsay, John V.
Cities Solve Problems, TB:73:C-DM-211

Lindskog, Gote
See Robert D. Holtz, PES:72:I-273

Lindstrom, Vernie G.
Impact of OSHA on Designers, CE:July 73:85
TR:139:319

Lingbloom, K. L.
See M. L. Schwartz, CE13:72:III-2503

Linsley, Ray K.
Dsc, HY4:Apr 70:1100:7189, of "Urban Runoff by Road Research Laboratory Method", HY6:Nov 69: 1809:6878
See Stephen J. Burges, HY7:July 71:977:8227
See Alan M. Lumb, HY7:July 71:1065:8232

Linstedt, K. Daniel
See Edwin R. Bennett, EE1:Feb 73:55:9537

Linzey, M. P.T.
Planning and Design at the Overall Building Level, State-of-Art Report 2, with John F. Brotchie, TB: 73:C-AC31-183

Linzing, Walter D.
Dsc, CO2:Nov 71:330:8482, of "Control of Quality-A System", CO2:Oct 70:119:7576

Lionberger, Steve R.
Dynamic Response of Frames with Nonrigid Connections, with William Weaver, Jr., EM1:Feb 69:95:6393
Dsc: D. Melville Porter, EM6:Dec 69:1442:6929
Clo: EM4:Aug 70:498:7438
TR:135:1053

Lipetz, Morton B.
Dsc, CE:June 73:22, on Computer-Driven Plotters: Will They Make the Draftsman Extinct?, CE:Feb 73:31

Lippoth, Walter
Dsc, ST8:Aug 71:2145:8271, of "Horizontal Thermal Movement of Curved Bridge Decks", ST10:Oct 70: 2037:7590

Lipson, Samuel L.
Cost Optimization of Structural Roof System, with Alan D. Russell, ST8:Aug 71:2057:8291
  Errata: ST6:June 72:1331:8930
  TR:137:720
Weight Optimization of Plane Trusses, with Krishna M. Agrawal, ST5:May 74:865:10521

Liska, Joseph A.
Performance of Wood Construction in Disaster Areas, with Billy Bohannan, ST12:Dec 73:2345:10230
  Dsc: Norman B. Jones, ST11:Nov 74:2345:10899
  TR:139:528

List, E J.
Turbulent Entrainment in Buoyant Jets and Plumes, with Jorg Imberger, HY9:Sept 73:1461:9992
  Dsc: Gerrit Abraham and Gerhard Jirka, HY8:Aug 74:1180:10696
  TR:139:361
Dsc, with Albert B. Pincince, HY10:Oct 73:1888:10037, of "Model Study of Dense Jet in Flowing Fluid", HY11:Nov 72:1921:9365

Liston, Charles R.
See John Z. Reynolds, EPCE:Aug 74:227

Litle, William A.
Boston Collapse, STF:73:99
Management in the Construction Industry --A New M.I.T. Program, CEE:Feb 74:1-589
See Leroy Z. Emkin, ST1:Nov 70:2373:7689
See Leroy Z. Emkin, ST1:Jan 72:327:8675

Little, A. L.
Dsc, SM3:May 69:892:6525, of "Embankment Pore Pressures During Construction", SM2:Mar 68:527:5867

Little, Robert Wm.
End Effects in Truncated Semi-Infinite Wedge, with Tommie R. Thompson, EM5:Oct 72:1239:9251
  Dsc: Isadore K. Silverman, EM2:Apr 73:418:9636
  Clo: EM5:Oct 73:1099:10041
  TR:139:136

Littlepage, Jack L.
See Norval Balch, CE13:72:III-2117

Liu, Cheng L.
Ocean Sediment Holding Strength Against Breakout Of Partially Imbedded Objects, CEO-II:70:105

Liu, Chih C.
See Lawrence N. Kuzminski, NSCD:71:85
See Lawrence N. Kuzminski, SA1:Feb 72:229:8722

Liu, Chin-shu
Multilake River System Operation Rules, with Allan C. Tedrow, HY9:Sept 73:1369:10021
  TR:139:388
River Systems Transition Function and Operation Study, HY6:June 73:889:9806
  Errata: HY5:May 74:704:10505
  TR:139:309

Liu, Henry
Analysis of Integrating-Float Flow Measurement, with Larry D. Martin, HY5:Sept 68:1245:6116
  Dsc: T. R. Chandrasekhara and M. H. Ramachandra, HY4:July 69:1474:6641
  Clo: HY2:Feb 70:583:7045
  TR:135:772
Integrating-Float Measurements at Low Velocities, with Larry D. Martin, HY1:Jan 70:143:7027
  TR:136:423
Integrating-Float Measurements in Turbulent Flows, with Charles D. Morris, HY2:Feb 70:565:7101
  TR:136:590
Manning's Coefficient for Smooth Pipes, SA2:Apr 72:353:8830
  Dsc: Santosh R. Goswami, EE1:Feb 73:95:9521
  Clo: EE4:Aug 73:555:9893
  TR:139:178
Wind-Induced Circulation in Shallow Water, with Himerio J. Perez, HY7:July 71:923:8235
  TR:137:377
Dsc, with Charles D. Morris, HY6:Nov 68:1601:6200, of "Measurement of Turbulence in Water", HY2:Mar 68:411:5855
Dsc, HY12:Dec 70:2668:7711, of "Work-Energy Equation for the Streamline", HY5:May 70:1179:7300

Liu, L. K.
Effects of Parameter Variations on Floor Response Spectra, with C. L. Child and B. Nowotny, SDNPF:Dec 73:435

Liu, Oscar C.
Viral Pollution and Depuration of Shellfish, NSCD:71:397

Liu, Paul C.
Wave Data Analyses at GLERL, with Richard J. Robbins, WAVES:Sept 74:64
Dsc, with John G. Housley, WW4:Nov 68:529:6204, of "Laboratory Simulation of Sea Waves", WW2:May 68:159:5941

Liu, Philip L-F
Damping of Water Waves Over Porous Bed, HY12:Dec 73:2263:10218
  Dsc: Robert A. Dalrymple, HY11:Nov 74:1725:10898
  Errata: HY10:Oct 74:1500:10839
  TR:139:477
See Trevor G. Carter, WW2:May 73:165:9699
See Chiang C. Mei, WW3:Aug 74:217:10754

Liu, Shih-Chi
An Approach to Time-Varying Spectral Analysis, EM1:Feb 72:243:8733
  Dsc: Mehmet Aziz Tayfun and Cheng Y. Yang, EM6:Dec 72:1606:9390
  Clo: EM3:June 73:599:9759
  TR:139:42
Dynamics of Correlated Random Pulse Trains, EM4:Aug 70:455:7490
  TR:136:979
Earthquake Interaction by Fast Fourier Transform, with Lawrence W. Fagel, EM4:Aug 71:1223:8324
  TR:137:752
Earthquake Response Statistics of Nonlinear Structures, EM2:Apr 69:397:6507
  TR:135:58
Spectral Simulation and Earthquake Site Properties, with Dilip P. Jhaveri, EM5:Oct 69:1145:6844
  TR:135:1022
Dsc, EM4:Aug 68:1003:6055, of "Equivalent Viscous Damping for Yielding Structures", EM1:Feb 68:103:5793
Dsc, EM2:Apr 71:580:8011, of "Probabilistic Response Analyses to Earthquakes", EM3:June 70:207:7321
See Lawrence W. Fagel, EM4:Aug 72:929:9149

Liu, Thomas K.
An Instrumented Tied-Back Deep Excavation, with John P. Dugan, Jr., PES:72:I-1323
See Roy E. Olson, GT74:June 74:85

Liu, Tony C.Y.
Biaxial Stress-Strain Relations for Concrete, with Arthur H. Nilson, ST5:May 72:1025:8905
  Dsc: Ganpat S. Pandit, ST5:May 73:957:9693
  Clo: ST5:May 73:958:9693
  TR:138:247

Liu, Victor A.S.
See Wei-Wen Yu, ST11:Nov 74:2191:10907

Lively, Lawrence D.
See Marion R. Scalf, SA5:Oct 69:817:6817

Liver, Norman L.
Tension Piles and Diagonal Tie-Backs, CO1:July 69:107:6692
  TR:136:1124

Livesey, Robert H.
Influences of Sedimentation on Water Quality: An Inventory of Research Needs, HY8:Aug 71:1203:8325
See V.S. Shastri Annambhotla, WW4:Nov 72:489:9358

Livneh, Moshe
Dsc, SM1:Jan 70:323:6989, of "Prediction of Swelling Pressure of Clays", SM1:Jan 69:209:6358
Dsc, with Jacob Greenstein and Elisha Shklarsky, SM10:Oct 71:1491:8410, of "Bearing Capacity of Footings on Anisotropic Soils", SM6:Nov 70:1967:7677
Dsc, with Jacob Greenstein, SM2:Feb 72:232:8683, of "Bearing Capacity of Anisotropic Cohesive Soil", SM5:May 71:753:8146
See Jacob Uzan, TE1:Feb 72:17:8695

Ljatkher, V. M.
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, ISSF:Aug 72:299

Lo, Christopher C.
Singular Integral Equation Solution For Torsion, with Francis W. Niedenfuhr, TN: EM4:Aug 70:535:7444

Lo, Kam-Shing
Finite Segment Analysis of Folded Plates, with Alexander C. Scordelis, ST5:May 69:831:6544
  TR:135:215
See Yue-Chyou Yang, CE:July 74:50

Lo, Kwan Y.
An Alternative Interpretation of the Vaiont Slide, with C. F. Lee and P. Gelinas, RM13:72:595
Dsc, with C. F. Lee, SM9:Sept 72:981:9158, of "Finite Element Analysis of Strain-Softening Clay", SM1:Jan 72:43:8650

Lo, Mei Ban
Dsc, SM1:Jan 70:317:6989, of "Time Dependent Deformation of Normally Consolidated Clays and Peats", SM1:Jan 69:1:6337

Lo, Robert Chung-Yi
Dsc, with C. C. Tillman, Jr., SM1:Jan 69:342:6324, of "Finite-Element Analysis of Seepage Through Dams", SM6:Nov 67:41:5552

Lobb, Verl
Bolted Joints Under Sustained Loading, with Floyd Stoller, ST3:Mar 71:905:7996
  Dsc: Geoffrey D. Base, C. Christopher Simpson, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST12:Dec 71:2920:8557
  Clo: ST7:July 72:1659:9003
  TR:137:549

Lobdell, Herbert L.
Settlement of Buildings Constructed in Hackensack Meadows, SM4:July 70:1235:7398
  TR:136:1070

Locher, Frederick A.
Dsc, with Touvia Miloh, HY7:July 73:1187:9823, of "Ripples on Underside of River Ice Covers", HY9:Sept 72:1603:9191
See Subhash C. Jain, HY5:May 72:955:8859
See Eduard Naudascher, HY2:Feb 74:295:10347

Lockett, Wilfred G.
Dsc, HY11:Nov 73:2158:10109, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Lockwood, Mason G.
Preservation of Estuaries by Tidal Inlets, with Henry P. Carothers, WW4:Nov 67:133:5583
  Dsc: Per Moller Bruun, WW3:Aug 68:380:6053; Asa V. Shannon and Edward B. Madden, WW3:Aug 68:382:6053; Harvey O. Banks, WW4:Nov 68:516:6204
  Clo: WW4:Nov 68:518:6204
  TR:135:530

Loder, Robert T.
Wells Hydroelectric Project Fish Facilities, with Michael W. Erho, PO2:Mar 71:301:7982
  TR:137:923
See James G. Patrick, CE:Oct 70:61

Loedolff, Gerrit F.
See Karl B. Borgin, ST7:July 68:1681:6020

Loehr, Raymond C.
Agricultural Runoff-Characteristics and Control, SA6:Dec 72:909:9406
  Dsc: Leland L. Harms, EE4:Aug 73:563:9893
  Clo: EE3:June 74:759:10564
  TR:139:465
Animal Wastes--A National Problem, SA2:Apr 69:189:6493
  TR:135:255
Drainage and Pollution from Beef Cattle Feedlots, SA6:Dec 70:1295:7726
  TR:137:382

Loeltz, O. J.
Water Consumption in the Lower Colorado River Valley, with C. C. McDonald, IR1:Mar 69:65:6457
  Dsc: Harry F. Blaney and William Wen-Gong Yeh, IR4:Dec 69:643:6930
  Clo: IR3:Sept 70:348:7498
  TR:135:986

Loesing, Norman R.
See John H. McGavock, CO1:Mar 71:17:7990

Loewy, Eric
Model Tests and Studies For Port Rashid, Dubai, 12CEC:71:1137

Lof, George O.G.
Solar Heating and Cooling: Untapped Energy Put to Use, with Dan S. Ward, CE:Sept 73:88
  TR:139:408
See Blair T. Bower, EE1:Feb 73:1:9543

Lofgren, Ben E.
Monitoring Group Movement in Geothermal Areas, HYB:Aug 73:437

Lofthus, Clayton E.
See Jack I. Nicholls, ST11:Nov 71:2769:8485

Logan, John
Dsc, IR3:Sept 71:536:8346, of "Safe Yield of Aquifers: An Economic Reformulation", IR4:Dec 70:377:7719

Logan, Malcolm H.
Landslide at Silver Jack Dam, with Fred J. Davis, PES:73:III-315

Logcher, Robert D.
Dsc, CE:Sept 69:53, on On the Applications of ICES and Universal Program Software Systems, CE:Feb 69:72
See Jerome J. Connor, ST6:June 68:1525:6011
See Aldo Cella, EC5:70:259
See Joseph M. Sussman, EC5:70:707
See Aldo Cella, ST1:Jan 71:175:7845
See Joseph M. Sussman, ST1:Jan 71:425:7844
See Kanu S. Patel, ST4:Apr 73:621:9643

Lohmann, M. R.
Professional Schools and Programs, CEE:Feb 74:2-125

Lohnes, R. A.
In-Situ Measurement Of Soil Creep, with Alvaro Millan and Richard L. Handy, TN: SM1:Jan 72: 143:8618

Lohrmann, M.
See E. F. Roberts, CE:Dec 71:64

Lokken, Edwin C.
Concrete Median Barrier Safely Redirects Impacting Vehicles, CE:Oct 71:77
  TR:137:642
Concrete Safety Barrier Design, TE1:Feb 74:151: 10356

Lombardo, Pio S.
Dsc, SA2:Apr 72:468:8800, of "Water Quality Simulation Model", SA5:Oct 71:569:8429

Londe, Pierre
Stability of Rock Slopes, A Three-Dimensional Study, with Gaston Vigier and Raymond Vormeringer, SM1:Jan 69:235:6363
  Dsc: Lakshman S. Srivastava, SM1:Jan 70:327: 6989
  Clo: SM5:Sept 70:1792:7499
  TR:135:88
Stability of Rock Slopes-Graphical Methods, with Gaston Vigier and Raymond Vormeringer, SM4: July 70:1411:7435
  Clo: SM6:June 71:927:8158
  TR:136:1039
See W. Ter Minassian, RCCD:70:395

Long, Adrian E.
Punching Failure of Slabs -- Transfer of Moment and Shear, ST4:Apr 73:665:9654
  TR:139:289

Long, Carl F.
Frequency Analysis of Complete Spherical Shells, EM3:June 69:505:6591
  TR:135:73

Long, Erwin
Buttress Design Earthquake-Induced Slides, with Warren George, SM4:July 67:595:5332
  TR:135:363

Long, John Edward
See John Duncan Davies, EM3:June 68:753:5985

Long, Richard P.
Mean Pore Sizes from Flow Measurements, with Thomas F. Zimmie, TN: SM7:July 73:583:9865
Dsc, with Kent A. Healy, IR4:Dec 71:651:8553, of "Control of Sediment Flow Into Subsurface Drains", IR4:Dec 70:437:7751
Dsc, IR1:Mar 72:152, of "Seepage Effect on Channel Bank Stability", IR1:Mar 71:59:7968
Dsc, with Joseph O. Elmer, HY5:May 74:703:10505, of "Friction Factor and Reynolds Number in Porous Media Flow", HY6:June 73:901:9784
See Kent A. Healy, IR4:Dec 72:543:9422
See Kent A. Healy, CE:Apr 74:50

Long, Robert R.
Some Properties of Turbulence in a a Stratified Shearing Flow, ISSF:Aug 72:317

Longenbaugh, Robert A.
Dsc, with Gary L. Guymon, IR4:Dec 69:639:6930, of "Analog of Ground Water in East-Central New Mexico", IR1:Mar 69:27:6435

Longhurst, G. Reed
See Reynold K. Watkins, PL1:Oct 68:155:6195

Longinow, Anatole
Dsc, ST6:June 69:1377:6583, of "Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steel of Joint ASCE-AASHO Committee on Steel Flexural Members", ST9:Sept 68:2033:6112
See A. J. Kaninowski, TN: ST10:Oct 70:2261:7572
See E. Bergmann, SDNPF:Dec 73:425
See John D. Rouse, SM12:Dec 73:1174:10184
See L. Bertram, ST2:Feb 74:481:10306
See N. T. Thomopoulos, ST8:Aug 74:10697

Longley, Karl
Dsc, with Vincent P. Olivieri and Cornelius W. Kruse, EE5:Oct 73:757:10035, of "Kinetics as Design Criteria for Post Chlorination", EE1:Feb 73: 73:9557

Longworth, Jack
Dsc, ST10:Oct 71:2625:8411, of "Design of Laterally Unsupported Timber Beams", ST3:Mar 71:881:7995
See Sumio Hamada, ST11:Nov 74:2205:10917

Loo, Yew-Chaye
Dsc, with Anthony R. Cusens, ST8:Aug 70:1848: 7442, of "Folded Plate Structures by Finite Strip Method", ST12:Dec 69:2963:6985
Dsc, with Anthony R. Cusens, EM5:Oct 74:1051: 10837, of "Convergence of Semianalytical Solution of Plates", EM5:Oct 73:1023:10054

Loofbourow, R. L.
How to Cut Underground Construction Costs, CE: June 72:85
  TR:138:310

Looney, Charles T.G.
See Conrad P. Heins, Jr., ST2:Feb 68:565:5822
See Conrad P. Heins, Jr., ST2:Feb 69:249:6421

Looper, Joseph H.
Milwaukee Boosts 600 Ft Steel Arch, with Robert W. Anzia, CE:Jan 74:62

Loov, Robert E.
See Ian J. Jordaan, TN: ST7:July 72:1675:9069

Lopes, R.
See Michael M.K. Ho, SM3:May 69:791:6554

Lopes Pereia, Carlos A.
See Anestis S. Veletsos, EM2:Apr 72:311:8806

LoPinto, Victor J.
Dsc, SM1:Jan 70:310:6989, of "Performance of Embankments Constructed Over Peat", SM1:Jan 69:53:6333
Dsc, SM1:Jan 70:361:6989, of "Field Studies of Response of Peat to Plate Loading", SM4:July 69: 949:6652

Lo Presti, Frank E.
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., CE:Nov 72:57
  TR:138:499

Lorca, A.
See J. Aguirre, TB:73:C-P-466

Lord, A. E.
See Robert M. Koerner, TN: SM1:Jan 72:161:8618

Lord, Charles J.
Offshore Developments that Minimize Environmental Impact, CO2:June 74:159:10610

Lord, James
Inelastic Dynamic Behavior of Tall Buildings, TB:73: Ib-6-291

Lording, Patrick T.
Armor Stability of Overtopped Breakwater, with John R. Scott, WW2:May 71:341:8138
  Dsc: Juan B. Font, WW1:Feb 72:125:8686; Fredric Raichlen, WW2:May 72:273:8863
  Clo: WW4:Nov 72:9310
  TR:137:929

Lorentsen, Mogens
Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, TB:73:III-23-585

Lorgere, Henri
See Dino Zanobetti, WW2:May 70:181:7259

Lorin, P. A.
Commentary on Structural Standards, Theme Report, TB:73:II-13-7

Lorsch, Harold G.
Dsc, PP1:Jan 73:125:9460, of "Action in Public Affairs -- A Way of Life", PP2:Apr 72:181:8797

Losberg, Anders
See Lennart Elfgren, ST2:Feb 71:729:7867
See Lennart Elfgren, ST3:Mar 71:995:7944
See Lennart Elfgren, ST8:Aug 74:1657:10749

Lott, James L.
See Joseph P. Callahan, ST10:Oct 70:2021:7579

Lott, John F.
Three-Dimensional Inelastic Subassemblage Design, with Unnikrishna S. Pillai and John S. Ellis, ST5:May 71:1445:8108
TR:137:609

Louckes, Frank Irwin
Memoir of, TR:138:632

Loucks, Daniel P.
Computer Models for Reservoir Regulation, SA4:Aug 68:657:6075
Errata: SA4:Aug 69:775:6706
TR:135:675
Environmental Noise Management, with Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202
TR:139:481
See Moshe Gablinger, HY1:Jan 70:165:7031

Louie, David S.
Mossyrock Arch Spillway, PO1:Jan 71:39:7792
TR:137:67

Love, George C.
Photogrammetric Mapping of Craters from Small Explosions, with Luke J. Vortman, SU1:Oct 69:125:6857
TR:135:923

Love, Gerald D.
Correlation of Environmental Impact Evaluations and Highway Transportation Planning, UT73:May 73:71

Love, H. W.
Dsc, CE:May 73:58, on Subsurface Freezing Used In Tunneling, CE:May 72:37

Lovejoy, Warren B.
Urban Commodity Flow - Suggested Research Projects, UP1:July 72:55:9047
TR:138:554

Lovell, Charles William, Jr.
See Fredy Romani, SM11:Nov 72:1209:9349
See Syed Ahmed, GT4:Apr 74:407:10500

Lovell, Edward G.
Cylindrical Shell Under Sudden PressurizatioE, EM6:Dec 70:1229:7776
TR:136:1331

Lovell, Leonard A.
River-Basin Planning for Private Development, with Clarence N. Freeman and Alvin S. Goodman, PO1:May 68:67:5946
Dsc: Roy F. Bessey, PO2:Nov 68:246:6201
Clo: PO2:Oct 69:362:6801
TR:135:728

Lovera, Frederico
Friction-Factors for Flat-Bed Flows in Sand Channels, with John F. Kennedy, HY4:July 69:1227:6678
Dsc: Ramachandra J. Garde and K. G. Ranga Raju, HY4:Apr 70:1052:7189; Rolf Kellerhals, HY4:Apr 70:1056:7189; Thomas Blench, HY4:Apr 70:1057:7189
Clo: HY12:Dec 70:2613:7711
TR:136:188
Dsc, HY3:Mar 73:547:9580, of "Friction Factors in Solid Material Laden Systems", HY4:Apr 72:681:8854

Lovering, Harry D.
Lateral Support of Concrete Block Walls, CE:May 73:74
Dsc: Michael A. Jordan, CE:Aug 73:24
TR:139:227
Dsc, CO2:Sept 72:359:9155, of "Causes of Delay in the Construction Industry", CO2:Nov 71:177:8501
Dsc, CO1:Mar 74:102:10377, of "Scheduling Game for Construction Industry Training", CO1:July 73:81:9832

Low, Dana E.
Base Year Trip Tables for Statewide Traffic Models, TE3:Aug 69:559:6752
Errata: TE3:Aug 70:437:7440
TR:135:1005
Revolution in Urban Highway Planning, ASCE Committee on Highway Planning and Economics of the Highway Division, TE1:Feb 71:145:7916
TR:137:247
Use of Simulation in Airport Planning and Design, TE4:Nov 74:985:10954
See Austin E. Brant, Jr., NA:Mar 71:13

Lowe, John, III
Controlled Gradient Consolidation Test, with Ernest Jonas and Vladimir Obrician, SM1:Jan 69:77:6327
Dsc: Rakhishwar N. Bhasin, SM6:Nov 69:1574:6894; Carlo Viggiani, SM6:Nov 69:1574:6894; Dalim K. Majumdar and Joseph J. Kalinoski, SM1:Jan 70:307:6989
Clo: SM5:Sept 70:1789:7499
TR:136:1
Earth and Earth-Rock Dams, PES:73:II-55
New Concepts in Consolidation and Settlement Analysis, GT6:June 74:571:10623
Stability Analysis of Embankments, SM4:July 67:33:5305
Dsc: B. Satyanarayana, SM2:Mar 68:587:5827
Clo: SM6:Nov 69:1517:6894
TR:135:354

Lowe, Peter G.
See Robert E. Melchers, EM6:Dec 73:1301:10181

Lowe, Robert L.
Simultaneous Data System for Instrumenting the Shelf, with Douglas L. Inman and Birchard M. Brush, CE13:72:I-95

Lowery, Lee L., Jr.
Analysis Of Pile Driver Requirements For Off-Shore Piles By The Wave Equation, with Thomas Charles Edwards and John M. Miller, CEO-II:70:415
See Thomas Charles Edwards, ST7:July 69:1431:6663

Lowery, Richard L.
See D. Jack Bayles, ST5:May 73:853:9727

Lowy, Stan H.
Approximate Stress Analysis for Guyed Towers, CE:Mar 72:80
TR:138:169

Loziuk, Lawrence A.
Hydrothermal Analysis by Finite Element Method, with James C. Anderson and Ted B. Belytschko, HY11:Nov 72:1983:9372
Dsc: Marappatounder Nalluswami, HY11:Nov 73: 2141:10109
Clo: HY7:July 74:1075:10635
TR:139:137
Transient Hydrothermal Analysis of Small Lakes, with James C. Anderson and Ted B. Belytschko, PO2:Nov 73:349:10150
Dsc: Marappatounder Nalluswami, PO2:Dec 74: 215:10976
TR:139:493

Lu, Le-Wu
Banquet Remarks at Tall Buildings Conference, TB: 73:C-527
Closing Remarks at Tall Buildings Conference, TB: 73:C-511
Opening Remarks to Tall Buildings Conference, TB: 73:C-19
Ultimate Strength of Laterally Loaded Columns, with Hassan Kamalvand, ST6:June 68:1505:6009
Dsc: Peter F. Adams, ST3:Mar 69:512:6430
Clo: ST2:Feb 70:409:7047
TR:135:576
See Peter Arnold, ST1:Jan 68:243:5759
See Lynn S. Beedle, ST9:Sept 69:1911:6781
See Joseph A. Yura, ST10:Oct 69:2243:6840
See Eugene L. Sheninger, ST3:Mar 70:573:7159
See Bernard M. McNamee, ST7:July 72:1613:9062
See J. Hartley Daniels, ST8:Aug 72:1769:9148
See Ben Kato, TB:73:II-16-463
See Lynn S. Beedle, TB:74, 5200pp.

Lubina, Allen F.
Pavement Design and Staging for Mayan Roads, with Robert N. Panfill, TE4:Nov 71:651:8516
TR:137:985

Luce, Charles F.
Coordinated Land and Water Planning Proposed to Avoid Killing of Projects, CE:May 71:75
Dsc: Amos Roos, CE:Oct 71:80
TR:137:379
National Water Commission Report, with Ted Schad and Victor Koelzer, CE:May 73:70
TR:139:223

Luck, Gunter
Industrial Sewage in the Weser Estuary, CE13:72:III-2137
Observation of Sedimentmotion by Underwater-Television, 12CEC:71:687

Lucks, A. Stanley
Stress Conditions In NGI Simple Shear Test, with John T. Christian, Gregg E. Brandow and Kaare Hoeg, TN: SM1:Jan 72:155:8618

Luco, Juan Enrique
Dynamic Interaction of a Shear Wall with the Soil, EM2:Apr 69:333:6497
TR:135:140
Dynamic Response of Circular Footings, with Russell A. Westmann, EM5:Oct 71:1381:8416
TR:137:789

Ludwig, Harvey F.
Management and Regulations for the Future, CWFE: Mar 71:111
Dsc, Water Pollution Control, CE:Oct 70:51

Ludwig, K.
Dsc, PO3:June 70:488:7312, of "Tolerable Settlements of Steam Turbine-Generators", PO2: Oct 69:227:6841

Luedtke, Robert J.
Physical and Biological Rehabilitation of a Stream, with Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259

Luft, Rene W.
Automatic Generation of Finite Element Matrices, with Jose M. Roesset and Jerome J. Connor, EC5: 70:573
Automatic Generation of Finite Element Matrices, with Jose M. Roesset and Jerome J. Connor, ST1: Jan 71:349:7841
TR:137:858

Luik, Rein
See Robert J. Melosh, ST11:Nov 68:2581:6220

Luk, C. H.
Analysis of Safety Valve Discharging Into Closed Piping System, SDNPF:Dec 73:115

Luk, King S.
Building a Professionally Qualified Faculty, with Eugene H. Kopp, EI2:Apr 74:105:10466
University Teaching by Practicing Engineers, CEE: Feb 74:1-945
See Peter C. Madsen, CEE:Feb 74:1-900

Lukas, Donald E.
See Donald R. Sherman, ST2:Feb 70:335:7090

Lukas, Robert G.
Settlement Due to Chemical Attack of Soils, with Robert J. Gnaedinger, Jr., PES:72:I-1087
Dsc: Howard P. Thomas, PES:73:III-176

Lukey, A. F.
Rotation Capacity of Beams Under Moment Gradient, with Peter F. Adams, ST6:June 69:1173: 6599
Dsc: Maxwell G. Lay, ST2:Feb 70:437:7047; Ganpat S. Pandit, ST3:Mar 70:732:7116
Clo: ST9:Sept 70:1965:7567
TR:136:119

Lull, S. Hale
Northfield Mountain Pumped Storage Project, with Antonio Ferreira, PO2:Nov 68:199:6247
Dsc: Edward L. Thackston, PO2:Oct 69:364:6801
Clo: 1970
TR:135:173

Lum, Otto R.
Concrete Placement, Split Level-No Vertical Joints, RCCD:70:213

Lum, Walter B.
Dsc, SM8:Aug 73:648:9892, of "Comments on Conventional Design of Retaining Structures", SM2:Feb 73:181:9568

Lumb, Alan M.
Hydrologic Consequences of Rainfall Augmentation, with Ray K. Linsley, HY7:July 71:1065:8232
Dsc: Olin H. Foehner, HY4:Apr 72:723:8799
Clo: HY12:Dec 72:2212:9391
TR:137:997
Dsc, HY2:Feb 72:408:8681, of "Flood Frequency Estimating Techniques for Small Watersheds", HY9:Sept 71:1441:8383

Lumb, Peter
Dsc, ST4:Apr 70:858:7191, of "Safety Factors and Probability in Structural Design", ST7:July 69:1389: 6667

Lumley, J. L.
A Model for Computation of Stratified Turbulent Flow, ISSF:Aug 72:335

Lund, LeVal
Silver Lake Reservoir Reconstruction, IMROD:Sept 73:814

Lundahl, Richard P.
See Lloyd C. Fowler, TE4:Nov 72:969:9380

Lundgren, Harry R.
Buckling of Multilayer Plates by Finite Elements, with Ahmed E. Salama, EM2:Apr 71:477:8051
Dsc: Robert D. Cook, EM6:Dec 71:1745:8551
TR:137:933

Lundgren, Helge
Turbulent Currents in the Presence of Waves, CE13:72:I-623

Lundgren, Raymond
Effects of Loading Method on Triaxial Test Results, with James K. Mitchell and James H. Wilson, SM2:Mar 68:407:5844
Dsc: Osondu J. Uzomaka, SM2:Mar 69:663:6429
Clo: SM6:Nov 69:1537:6894
TR:135:733
See Samuel H. Clark, PP1:Sept 70:93:7560

Lundin, Lloyd W.
A Review of TVA's Problems and Treatment of Foundations of Existing Dams, IMROD:Sept 73:641
TVA Dam Inspection Activities, IMROD:Sept 74:39

Lundquist, Robert G.
Rock Structure Design by Failure Probabilities, with Robert W. Heins, RM14:73:329

Lunn, Otto R.
New Dam Construction Concept, ECCD:72:307

Lupu, L.
See Zvi Getzler, SM2:Mar 69:605:6476

Lurvey, Charles F.
See Ray S. Bennett, IRS:Sept 72:151

Luscher, Ulrich
See Yves Lacroix, LS:70:271

Lutes, Loren D.
Equivalent Linearization for Random Vibration, EM3:June 70:227:7333
TR:136:598
Random Vibration of Yielding Oscillator, with Hirokazu Takemiya, EM2:Apr 74:343:10482
Transient Random Response of Bilinear Oscillators, with Vipin S. Shah, EM4:Aug 73:715:9918
Errata: EM3:June 74:622:10565
TR:139:410
Dsc, EM1:Feb 72:271:8680, of "Random Processes for Earthquake Simulation", EM2:Apr 71:495:8057
Dsc, EM6:Dec 74:1273:10972, of "Nonstationary Response of Structural Systems", EM2:Apr 74:415:10502

Luthin, James N.
Displacement Front Under Ponded Leaching, with Pedro Fernandez, B. Maslov, J. Woerner and Frank E. Robinson, IR1:Mar 69:117:6446
TR:136:4
See Jaime Ortiz, IR3:Sept 70:257:7530
See Ralph B. Hwang, IR3:Sept 74:267:10797

Lutz, Francis C.
See Michael D. Disko, 12CEC:71:1847
See Krishnaswamingar Keshavan, CEE:Feb 74:1-121

Lutz, Mac W.
Concrete Dam Horizontal Joint Cleaning, RCCD:70:317

Lux, Donald G.
Construction Course for Junior High Schools, with Willis E. Ray, CE:May 71:37
TR:137:328

Lyashko, I. I.
New Method for Solving Seepage Problems in Nonhomogeneous Media, with G. E. Mistetskii, EM4:Aug 73:639:9956
TR:139:430

Lyddan, Robert H.
National Mapping for Urban Areas, SU2:Sept 70:143:7520
TR:136:849
Topographic Maps for Construction Planning, SU1:Apr 70:51:7221
Errata: SU1:May 71:142:8085
TR:136:762

Lynn, Paul P.
Free Transverse Vibration of Flat Slabs, with Nahit Kumbasar, EM1:Feb 69:255:6425
TR:136:727

Lynn, Walter R.
See Richard M. Shane, HY1:Jan 69:161:6329

Lyon, Walter A.
Managing Water Quality Economics, Technology, Institutions, by Allen V. Kneese and Blair T. Bower, with Richard M. Boardman, CE:Apr 70:32
"Recycling Treated Municipal Wastewater and Sludge Through Forest and Cropland" ed. by William E. Sopper and Louis T. Kardos (Book Review), with Marilyn Hewitt, CE:May 74:30
Some Mythological Aspects of Water Pollution Control, WQEF:Mar 70:75
Water and Health-Are We Concerned Enough?, SA5:Oct 70:1147:7595
Dsc: Robert L. McFall, SA3:June 71:389:8157; John M. Henderson, SA4:Aug 71:531:8269
Clo: SA2:Apr 72:437:8800
TR:137:464

Lyons, T. Clark
Evaluation of Agricultural Drainage in Water Quality Management, with Dwight P. Russell and Roger G. Fry, IR73:Aug 73:529

Lysmer, John
Finite Dynamic Model for Infinite Media, with Roger L. Kuhlemeyer, EM4:Aug 69:859:6719
Dsc: Milos Novak, EM2:Apr 70:186:7188
Clo: EM1:Feb 71:129:7862
TR:136:192
Limit Analysis of Plane Problems in Soil Mechanics, SM4:July 70:1311:7416
Errata: SM5:May 71:807:8083
TR:136:1005
Shear Waves in Plane Infinite Structures, with Gunter Waas, EM1:Feb 72:85:8716
Dsc: Stephen A. Thau and Martin A. Salmon, EM1:Feb 73:225:9522
Clo: EM1:Feb 74:125:10303
TR:139:16
See Roger L. Kuhlemeyer, TN: SM5:May 73:421:9703

Lysne, Dagfinn K.
Hydraulic Design of Self-Cleaning Sewage Tunnels, SA1:Feb 69:17:6404
Dsc: A. S. Paintal, SA:Dec 69:1182:6931
Clo: SA4:Aug 70:998:7441
TR:135:763
Movement of Sand in Tunnels, HY6:Nov 69:1835:6880
Dsc: Charles R. Neill, HY5:May 70:1224:7248; Bent A. Christensen, HY8:Aug 70:1728:7439
Clo: HY2:Feb 71:341:7863
TR:136:263

Lytkin, Y. M.
See O. F. Vasiliev, ISSF:Aug 72:161

Lytton, Robert L.
Stiffened Mats on Expansive Clay, with Kirby T. Meyer, SM7:July 71:999:8265
Dsc: Jose A. Jimenez Salas, SM4:Apr 72:427:8801; B. Ramanathan, SM4:Apr 72:429:8801
Clo: SM12:Dec 72:1402:9394
TR:137:995

Maarek, Ahmed
See Eugene E. Derenyi, SU1:May 74:49:10528

Maasland, Dirk E. L.
Falling Water Table Between Tile Drains, with R. A. Shery, IR2:June 67:9:5258
  Dsc: Lee D. Dumm, IR4:Dec 67:154:5621; Gabor M. Karadi, IR1:Mar 68:158:5826; George Terzidis, IR1:Mar 68:159:5826; Edward R. Holley, IR3:Sept 68:346:6088
  TR:135:297

Maass, Arthur
Budget Constraints and Multiobjective Planning, with David C. Major, PP3:July 72:359:9064
  TR:138:463

Mabin, Bhan
See Michael A. Garnett, ST3:Mar 72:587:8785

Mabry, Richard E.
An Evaluation of Mine Subsidence Potential, RM14:73:263
Dsc, SM2:Mar 69:668:6429, of "End Bearing and Skin Friction Resistance of Piles", SM2:Mar 68:421:5846

Macagno, Enzo O.
Interactions Between Circulation and Density Stratification, ISSF:Aug 72:345
Dsc, HY12:Dec 70:2669:7711, of "Work-Energy Equation for the Streamline", HY5:May 70:1179:7300
Dsc, EM6:Dec 71:1748:8551, of "Directional Analysis in Model Design", EM2:Apr 71:519:8053
See Poothrikka P. Paily, HY4:Apr 74:531:10479

Macander, Aleksander
See Israel Resnick, CO1:June 70:45:7367

Macchi, Giorgio
Non-Linear Analysis and Limit Design, Theme Report, TB:73:III-22-333
Thickness Effects on Creep, TB:73:III-25-829

MacCready, Paul B., Jr.
Arizona Weather Modification Research Program, IR2:June 70:103:7324
  TR:136:747

MacDonald, Thomas C.
Energy Dissipators for Large Culverts, HY6:Nov 69:1941:6893
  Dsc: Frederic T. Mavis, HY4:Apr 70:1103:7189; T. R. Chandrasekhara, HY8:Aug 70:1748:7439; Dah-Cheng Woo, HY9:Sept 70:1899:7497
  Clo: HY6:June 71:853:8155
  TR:136:514

Maceri, Franco
Dsc, EM4:Aug 72:996:9125, of "Nonlinear Analysis of Instability in Tension", EM5:Oct 71:1487:8428

MacFarlane, I. C.
See J. B. Forrest, SM4:July 69:949:6652

MacGregor, James G.
Approximate Inelastic Analysis of Shear Wall-Frame Structures, with Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
  Dsc: Sebastine Selvaraj, ST11:Nov 73:2311:10113
  TR:139:151
Design for the Limit State of Instability, TB:73:III-26-936
Flexural Stiffness, TB:73:III-24-724
Load Factor Variables, TB:73:III-26-935
The Shear Strength of Reinforced Concrete Members, ST6:June 73:1091:9791
  Dsc: Nripendra S. Bhal, ST5:May 74:1144:10506; Rolf A. Jakobsen, ST5:May 74:1145:10506; Madhujit Mukhopadhyay, ST5:May 74:1145:10506; Knut Waagaard, ST5:May 74:1147:10506; David Haldane, ST6:June 74:1316:10569
  Errata: ST4:Apr 74:821:10442
  TR:139:358
Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, TB:73:III-23-517
See Peter F. Adams, ST4:Apr 69:769:6486
See Peter F. Adams, ST9:Sept 70:1861:7505

Machmeir, Roger E.
Runoff Hydrographs for a Mathematical Watershed Model, HY6:Nov 68:7453:6248
  TR:135:266

Macias-Rendon, Miguel Angel
Model Study of Beam-Slab Bridge Superstructures, with David A. VanHorn, ST9:Sept 73:1805:9998
  TR:139:453

Mac Iver, Bruce N.
See Don C. Banks, SM5:May 71:791:8083

Mackay, William K.
Transportation and Urban Renewal - Experience in the United Kingdom, UP1:Mar 73:1:9624
  TR:139:278

MacKenzie, Arnold J.
See Luther B. Grass, IR1:Mar 72:97:8759

Mackey, S.
Wind Loading and Wind Effects, Summary Report, TB:73:Ib-7-445

MacLeman, Everett
Recommendations for Urban Health, CEWAU:74:158

MacLeod, Iain A.
New Rectangular Finite Element for Shear Wall Analysis, ST3:Mar 69:399:6464
  Dsc: Krishna M. Agrawal, ST9:Sept 69:2000:6755; Alexander Hrennikoff, ST10:Oct 69:2323:6803; Gordon M. Pole, ST1:Jan 70:140:6990; Carlos A. Felippa, ST1:Jan 70:143:6990; Ephraim Spira and Yehuda Sokal, ST8:Aug 70:1799:7442
  Clo: ST3:Mar 71:955:7944
  TR:136:48
Dsc, ST1:Jan 69:124:6325, of "Lateral Loads in Asymmetric Multistory Structures", ST3:Mar 68:645:5842

MacPhee, Craig
See Frederick J. Watts, HYB:Aug 73:11

Madden, Edward B.
See Asa V. Shannon, WW3:Aug 68:382:6053

Maddock, Thomas, Jr.
Indeterminate Hydraulics of Alluvial Channels, HY11:Nov 70:2309:7696
  Dsc: Brent D. Taylor, HY5:May 71:756:8081; Joe C. Willis, HY7:July 71:1149:8223; Mohammad Akram Gill, HY7:July 71:1154:8223; James P. Bennett, HY9:Sept 71:1533:8345
  Clo: HY3:Mar 72:555:8749
  TR:137:532
A Role of Sediment Transport in Alluvial Channels, HY11:Nov 73:1915:10130
  TR:139:433
Dsc, HY4:Apr 70:1080:7189, of "Instability of Flat Bed in Alluvial Channels", HY5:Sept 69:1545:6770
Dsc, HY6:June 70:1364:7310, of "Coordination of Mobile-Bed Hydraulics", HY6:Nov 69:1871:6884
Dsc, HY10:Oct 70:2123:7568, of "Friction Factors for Flow in Sand Bed Channels", HY6:Nov 69:1973:6900
Dsc, HY11:Nov 71:1904:8483, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams", HY1:Jan 71:101:7786
Dsc, HY7:July 73:1191:9823, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295
Dsc, HY12:Dec 74:1855:10974, of "Factors Determining Bed Forms of Alluvial Streams", HY3:Mar 74:363:10396

Madedor, Anthony O.
See Laing Barden, SM1:Jan 69:33:6338

Madhav, Madhira Radha
- Buckling of Finite Beams in Elastic Continuum, with Edward H. Davis, EM6:Dec 74:1227:11033
- Model for Machine-pile Foundation-soil System, with N. S.V. Kameswara Rao, TN: SM1:Jan 71:295:7787
- See Kanakatti Subramanya, HY12:Dec 73:2333:10197

Madison, Ronald B.
- Dynamic K_C Testing of Structural Steel, with George R. Irwin, ST7:July 74:1331:10653
- Fracture Analysis of King's Bridge, Melbourne, with George R. Irwin, ST9:Sept 71:2229:8377
  - TR:137:775

Madkour, Mohamed F.
- Inertial Platforms in Photogrammetric Mapping, SU2:Sept 68:109:6095
  - Errata: SU1:Oct 69:180:6804
  - TR:135:225
- Nonlinear Least Squares Algorithm, SU2:Nov 72:185:9357
  - Errata: SU1:Sept 73:145:9965
  - TR:139:327
- Precision of Adjusted Variables by Least Squares, SU2:Sept 68:119:6096
  - Errata: SU1:Oct 69:181:6804
  - TR:135:229
- Rigorous Formulas for Effects of Weight Changes, SU2:Nov 71:173:8514
  - Errata: SU2:Nov 72:9308
  - TR:137:972
- Rounds Versus Positions, SU1:Oct 69:151:6862
  - TR:136:679

Madrid, Marcos
- See Richard E. Speece, SA4:Aug 71:433:8278

Madsen, Howard C.
- See Earl O. Heady, HY10:Oct 73:1795:10074

Madsen, Larry
- Dsc, CE:Aug 72:54, on Transit System Employs Three Modes, CE:May 72:41

Madsen, Leon K.
- Management Defined, Characteristics, and Human Behavior, EPMT:73:1

Madsen, Ole Secher
- Waves Generated by a Piston-type Wavemaker, 12CEC:71:589
- Wave Transmission through Porous Structures, WW3:Aug 74:169:10714
- Dsc, WW4:Nov 69:598:6869, of "Shoaling of Solitary Waves on Small Slopes", WW1:Feb 69:1:6380

Madsen, Peter C.
- Conducting Civil Engineering Continuing Education, with King S. Luk, CEE:Feb 74:1-900

Madsen, Welby R.
- Coordinated Operation of Central Valley and State Water Projects, with David G. Coleman, HY10:Oct 74:1399:10887
- See Robin R. Reynolds, PL3:Nov 67:15:5574

Maduke, B. I.
- Dam Foundation Problems and Solutions, EFFD:Mar 74:69

Maevis, Alfred C.
- New York City Hall, CEWAU:74:33
- The Yankee Stadium, CEWAU:74:86
- See John M. Hayes, CE:Dec 71:63

Magnusson, Sven Erik
- Probabilistic Analysis of Fire Safety, TB:73:Ib-10-1016

Magoon, Orville T.
- Analysis of Wave Records By Non-Spectral Methods, with Radford S. Hall, II and Robert L. Mosher, CEO-II:70:1089
- Coastal Applications of the ERTS -- A Satellite, with Douglas M. Pirie and John W. Jarman, CE13:72:III-2065
- Coastal Sand Mining in Northern California, U.S.A., with John C. Haugen and Robert L. Sloan, CE13:72:II-1571
- Effect of Long Period Waves on Hydrographic Surveys, with William O. Sarlin, 12CEC:71:2251
- Remote Sensing in the Study of Coastal Processes, with Douglas M. Pirie, CE13:72:III-2027
- Dsc, WW1:Feb 71:218:7868, of "Harbor Study for San Nicholas Bay, Peru", WW2:May 70:251:7271
- Dsc, CE:Mar 73:87, on Tidal Energy from the Bay of Fundy, CE:Dec 72:40

Magued, Mohammed H.
- Lower Strength Steel Brittle Fracture Assessment, with D J. Laurie Kennedy, ST5:May 74:983:10551

Mah, Gordon B. J.
- Axisymmetric Finite Deflection of Circular Plates, EM5:Oct 69:1125:6832
  - Dsc: Robert Schmidt, EM3:June 70:373:7309
  - Clo: EM2:Apr 71:579:8011
  - TR:136:333
- Matrix Method for Linear Response of Structures, EM5:Oct 69:1101:6831
  - TR:136:325

Mahajan, Santosh K.
- Absolute Orientation of Photogrammetric Model, with Vijay Singh, SU2:Nov 71:237:8519
  - Errata: SU2:Nov 72:9308
  - TR:137:986
- Comparison of Analytical Relative-Orientation Methods, with Singh Vijay, SU1:July 72:73:9056
  - TR:138:340
- Explicit Approach to Exterior Orientation, SU2:Nov 71:251:8518
  - Errata: SU2:Nov 72:235:9308
  - TR:138:62
- New Procedure for Numerical Relative Orientation, SU2:Nov 74:155:10962
- Dsc, SU2:Nov 72:236:9308, of "Space Resection from Collinearity Conditions", SU2:Nov 71:205:8520
- Dsc, SU2:Nov 72:239:9308, of "Aerial Photography for Water Resource Studies", SU2:Nov 71:321:8545

Mahapatra, Bijay C.
- See Semih S. Tezcan, ST3:Mar 69:519:6430
- See Semih S. Tezcan, ST3:Mar 69:543:6430
- See Semih S. Tezcan, ST6:June 69:1257:6627

Mahar, J. W.
- See Ronald A. Jones, SUSS:July 73:297

Mahdaviani, Mohammad Ali
- Determination of Efficient Open Channel Sections, HY6:Nov 67:103:5567
  - Dsc: Praxitelis A. Argyropoulos, HY3:May 68:827:5920; Arie Ben-Zvi, HY3:May 68:830:5920; Mohammad Akram Gill, HY3:May 68:832:5920; Valupadas Murahari and P. Sreenivasulu, HY4:July 68:1153:6015; Pashupati B. Hickok, HY5:Sept 68:1357:6087; Pashupati N. Modi and S. M. Seth, HY5:Sept 68:1358:6087; Zoltan G. Hanko, HY2:Mar 69:711:6433
  - Errata: HY6:Nov 69:2143:6866
  - TR:135:389
- Steady and Unsteady Flow Towards Gravity Wells, HY6:Nov 67:135:5581
  - Dsc: Bruce W. Hunt, HY3:May 68:833:5920; Mostafa M. Soliman, HY4:July 68:1159:6015; Abdel-Aziz I. Kashef, HY5:Sept 68:1360:6087; V. M. Shestakov, HY6:Nov 68:1545:6200; Gabor M. Karadi and Raymond J. Krizek, HY6:Nov 68:1546:6200
  - TR:135:318

Maher, Francis J.
Wind Loads on Kresge Auditorium and Travelers Building, ST1:Jan 69:1:6330
  Dsc: Hans J. Leutheusser, ST11:Nov 69:2537:6867
  Clo: ST5:May 70:981:7250
  TR:135:907

Maheshwari, Mahendra
See Gerald M. Smith, ST2:Feb 74:391:10355

Mahin, Stephen A.
Nonlinear Seismic Response Evaluation - Charaima Building, with Vitelmo V. Bertero, ST6:June 74:1225:10614

Mahloch, Jerome L.
Multivariate Techniques for Water Quality Analysis, EE5:Oct 74:1119:10840

Mahmood, Arshud
See W. David Carrier, III, SM10:Oct 73:813:10099

Mahmood, Khalid
Sediment Routing in Irrigation Canal Systems, IR1:Mar 74:49:10401
Variation of Regime Coefficients in Pakistan Canals, WW2:May 74:85:10514
Dsc, HY10:Oct 71:1790:8407, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994
Dsc, with Paul H. Frinco, HY3:Mar 72:571:8749, of "Flow Over Triangular Elements Simulating Dunes", HY7:July 71:963:8246
See Saeed A. Rana, HY11:Nov 73:1967:10168

Mahmoodi, P.
Effect of Coating on Thermal Conductivity of Pipes, TE1:Feb 70:71:7102
  TR:136:357
Structural Dampers, ST8:Aug 69:1661:6725
  Dsc: Frederick C. Nelson, ST2:Feb 70:439:7047
  Clo: ST8:Aug 70:1809:7442
  TR:136:98

Mahoney, William M.
EHV-DC System Ties Los Angeles to Northwest, PO1:Jan 71:181:7851
  TR:137:506

Maier, Giulio
Effects of Geometry Change on Essential Features of Inelastic Behavior, with Daniel C. Drucker, EM4:Aug 73:819:9914
  TR:139:398
Equilibrium Branching Due to Flexural Softening, with Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898
Shakedown Of Plastic Structures With Unstable Parts, TN: EM5:Oct 72:1322:9228
See Osvaldo DeDonato, EM4:Aug 72:998:9125
See Leone Corradi, ST9:Sept 74:1925:10832

Maini, Y. N.T.
See J. C. Sharp, RM14:73:481

Mainstone, Rowland J.
Ductility of Masonry Walls, TB:73:III-27-1101
History and Philosophy of Tall Buildings, TB:73:Ia-1-264
Internal Blast, State-of-Art Report 6, TB:73:Ib-8-643
Dsc, ST8:Aug 74:1728:10697, of "Deck-Stiffened Arch Bridges of Robert Maillert", ST7:July 73:1527:9862
See Duiliu Sfintesco, TB:73:Ib-8-739

Mairs, John E.
See Alan Jennings, ST11:Nov 72:2433:9321

Maise, George
Scaling Methods for Surface Aerators, SA5:Oct 70:1079:7605
  TR:136:1287

Maiti, M.
Dsc, ST11:Nov 68:2626:6203, of "Integral Equation Method for a Corner Plate", ST1:Jan 68:41:5711

Maitra, Nirmalendu
Dsc, CE:Sept 72:61, on Flood Channel Doubles as Golf Course, CE:May 72:49
Dsc, ST11:Nov 73:2324:10113, of "Practical Approach to Two-Way Slab Design", ST1:Jan 73:131:9485

Majewski, Wojciech
Modeling of Heated-Water Discharges into River, ISSF:Aug 72:385

Major, David C.
Water Planning Models in North Atlantic Study, UP2:Sept 73:131:9996
  Errata: UP2:Nov 74:204:10902
  TR:139:468
Dsc, SA5:Oct 69:951:6802, of "Conceptual Problems in Water Quality Economics", SA5:Oct 68:841:6149
See Arthur Maass, PP3:July 72:359:9064

Majtenyi, Steven I.
A Model to Predict Mean Annual Watershed Discharge, HY7:July 72:1171:9034
  Errata: HY4:Apr 73:697:9637
  TR:138:373
Opening Remarks — Subsurface Exploration for Heavy Construction, EFSE:Aug 74:8
Dsc, SM5:May 71:815:8083, of "Nonlinear Analysis of Stress and Strain in Soils", SM5:Sept 70:1629:7513

Majumdar, Dalim K.
Triangular Blankets Reduce Earthdam Seepage, TN: SM6:Nov 70:2191:7646
Dsc, with Joseph J. Kalinoski, SM1:Jan 70:307:6989, of "Controlled Gradient Consolidation Test", SM1:Jan 69:77:6327
Dsc, SM1:Jan 70:368:6989, of "Property Interrelationships in Sensitive Clays", SM4:July 69:1037:6666
Dsc, SM8:Aug 71:1136:8270, of "Caisson Construction Problems and Correction in Chicago", SM2:Feb 71:417:7934

Majumdar, Sauren N.G.
Tests on Steel-Frame, Shear-Wall Structures, with Peter F. Adams, ST4:Apr 71:1097:8031
  TR:137:413
See Peter F. Adams, ST4:Apr 69:769:6486

Mak, Cary K.K.
Elastic Stability of Cylindrical Shells Under External Pressure, with Luis E. Amaya and Harry C. Saxe, CEO-II:70:535

Makarevich, G.
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, TB:73:Ia-1-93

Makarov, I. I.
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, with S. L. Zisman, ISSF:Aug 72:371

Makhlouf, Hanna M.
Dsc, SM1:Jan 69:345:6324, of "Finite-Element Analysis of Seepage Through Dams", SM6:Nov 67:41:5552

Maki, Fumihiko
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, TB:73:Ia-1-91

Malcolm, David J.
Cosserat Surface and Sandwich Shell Equilibrium, with Peter G. Glockner, EM5:Oct 72:1075:9240
  Errata: EM4:Aug 73:890:9894
  TR:139:119

Nonlinear Sandwich Shell and Cosserat Surface Theory, with Peter G. Glockner, EM5:Oct 72:1183:9244
Errata: EM4:Aug 73:890:9894
TR:139:124
Shear Lag in Stiffened Box Girders, with Richard G. Redwood, ST7:July 70:1403:7409
Dsc: Bharat L. Mehrotra, ST3:Mar 71:998:7944; Natarajan Krishnamurthy, ST4:Apr 71:1366:8015
Clo: ST11:Nov 71:2754:8485
TR:137:51
See Peter G. Glockner, EM3:June 73:445:9775

Maldague, Jean Claude
Imposed Rotations Methods, State-of-Art Report 3, TB:73:III-22-395

Males, Richard M.
Ten Years After: Confessions of an Overeducated Engineer, CEE:Feb 74:1-417

Malhotra, Anil K.
Nondeterministic Analysis of Offshore Structures, with Joseph Penzien, EM6:Dec 70:985:7777
Dsc: Subrata K. Chakrabarti, EM3:June 71:1028:8154
Clo: EM1:Feb 72:260:8680
TR:137:855
Response of Offshore Structures to Random Wave Forces, with Joseph Penzien, ST10:Oct 70:2155:7626
TR:137:204
Response Of Offshore Towers To Earthquake Excitation, with Joseph Penzien, CEO-II:70:65

Malhotra, Gurbachan P.
Dsc, HY7:July 71:1139:8223, of "Linear-Momentum Flux to Overbank Sections", HY9:Sept 70:1781:7517
See Eugene J. Aubert, IR1:Mar 72:49:8787

Malhotra, M. M.
See Anjur R. Chandrasekaran, HY5:May 72:887:8923

Malhotra, Sudershan
Anaerobic Digestion of Sludge Containing Iron Phosphate, with Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432
Dsc: Philip C. Singer and Thomas L. Theis, SA5:Oct 72:784:9225
TR:138:74

Malhotra, V. Mohan
See Carl Berwanger, EM2:Apr 74:305:10489

Malina, Joseph F., Jr.
Refuse Reclamation and Recycle, with William T. Morgan, SA6:Dec 72:819:9437
TR:138:564
See David R. Brosman, SA3:June 72:606:8928

Maline, Winfred F.
Bactericidal Disinfectant Testing by Micromethods, with Theodore F. Wetzler and Lloyd G. Herman, NSCD:71:307

Maljian, Perry A.
Tied-Back Deep Excavations in Los Angeles Area, with James L. Van Beveren, CO3:Sept 74:337:10791

Mallet, Ronald J.
Structural Behavior of Masonry Elements, State-of-Art Report 3, TB:73:III-27-1001

Mallett, Robert H.
Finite-Element Analysis of Nonlinear Structures, with Pedro V. Marcal, ST9:Sept 68:2081:6115
Dsc: Bulent Ovunc, ST6:June 69:1379:6583; J. Tinsley Oden, ST6:June 69:1379:6583
Clo: ST1:Jan 70:132:6990
TR:135:722

Nonlinear Structural Analysis by Energy Search, with Lucien A. Schmit, Jr., ST3:June 67:221:5285
TR:135:367

Malone, David W.
Finite Elements and Dynamic Viscoelasticity, with Jerome J. Connor, EM4:Aug 71:1145:8293
TR:137:649

Malouf, John B.
See John E. Ball, CEE:Feb 74:1-426

Maltby, Milton
Dsc, OCEA Nominations, CE:Aug 74:22

Malter, Henry
Dsc, ST5:May 70:1003:7250, of "Buckling Loads of Nonuniform Columns", ST11:Nov 69:2419:6908

Mamelak, Joseph S.
Dsc, with Joseph V. Radziul, SA2:Apr 69:365:6485, of "Time-Varying Dissolved Oxygen Model", SA2:Apr 68:381:5915

Mancini, E.
See Miguel Carlos Stamato, ST12:Dec 73:2375:10193

Mandel, Herbert M.
Dsc, ST1:Jan 69:126:6325, of "Surface Treatment of High-Strength Bolted Joints", ST3:Mar 68:671:5851
See Alfred Hedefine, ST11:Nov 71:2635:8529

Mandel, James A.
Stress Distribution in Castellated Beams, with Paul J. Brennan, Benjamin A. Wasil and Charles M. Antoni, ST7:July 71:1947:8260
Dsc: K. Veeraraghavachary, ST2:Feb 72:534:8684
TR:137:994
Stress Waves at Rigid Right Angle Joint, with Rajendra K. Mathor and Yuan C. Chang, EM4:Aug 71:1173:8316
TR:137:745

Maner, Alfred W.
Progress in Asphalt Pavement Thickness Design, CE:Mar 70:39
TR:136:231

Mangan, George F., Jr.
An Overview of Contemporary Approaches and Concepts in Metropolitan Water Management, UWRM:71:75

Mangarella, Peter A.
Dsc, HY2:Feb :11088, of "Buoyant Jets with Three-Dimensional Trajectories", HY11:Nov 72:1999:9378

Mangelson, Kenneth A.
Hydraulic Treatment Efficiency of Waste Stabilization, with Gary Z. Watters, SA2:Apr 72:407:8849
Dsc: Santosh R. Goswami, EE1:Feb 73:99:9521
Clo: EE4:Aug 73:556:9893
TR:139:224

Manhart, J. Kenneth
Engineering Guidelines for Highway Noise Shield Design, TE4:Nov 74:909:10926

Manheim, Marvin L.
Systematically Analyzing Transportation Alternatives, with Earl R. Ruiter, UTI:71:207

Manitt, Phillip J.
See David Burgreen, EM2:Apr 69:421:6509

Mann, David
Ethical and Social Responsibility in the Planning and Design of Engineering Projects, PP1:Jan 72:33:8657
Dsc: Kenneth R. Wright, PP4:Oct 72:727:9224; Charles D. Crosthwaite, PP4:Oct 72:729:9224
Clo: PP2:Apr 73:276:9638
TR:138:107

Mann, Dean E.
Public Policy Issues in Weather Modification, IR3: Sept 69:375:6772
TR:136:1218

Mann, John F., Jr.
Dsc, IR4:Dec 71:646:8553, of "Safe Yield of Aquifers: An Economic Reformulation", IR4:Dec 70:377:7719

Mann, Lawrence D.
Open Space Accessibility for Recreation, UP2:Dec 71:207:8607
TR:137:969

Mann, Robert L.
See Robert G. Grant, EM5:Oct 71:1573:8406

Mann, Theodore E.
Automation For Small Irrigation Projects, IR3:Sept 71:501:8344
TR:137:522

Manning, Thomas A.
See William Weaver, Jr., EM6:Dec 68:1455:6293

Manos, George P.
See Panos Kokoropoulos, EE1:Feb 73:73:9557

Manowitz, Bernard
See Lawrence E. Kukacka, CEO-II:70:969
See Lawrence E. Kukacka, ST9:Sept 71:2217:8363

Mansell, Donald S.
See Geoffrey D. Base, ST12:Dec 71:2920:8557
See Geoffrey D. Base, ST10:Oct 73:2123:10055

Mansfield, J. M.
See R. B. Carpenter, Jr., ESE:Apr 70:163

Manson, Philip W.
See Fred W. Blaisdell, IR3:Sept 67:59:5411
See Fred W. Blaisdell, HY4:July 68:1168:6015

Mansour, Farid
Dsc, with Walter H. Graf, HY9:Sept 73:1627:9961, of "Turbulence Effects On Drag of Sharp-Edged Bodies", HY7:July 72:1187:9061

Mansouri, A. H.
See J. Chinn, ST5:May 69:797:6539

Mansukhani, S. R.
Dsc, EI1:Jan 74:95:10252, of "What Graduate Students Want From ASCE", PP3:July 73:313:9881

Mansur, Charles I.
Mine Grouting to Control Building Settlement, with Marion C. Skouby, SM2:Mar 70:511:7166
TR:136:617
Pile Tests-Arkansas River Project, with Alfred H. Hunter, SM5:Sept 70:1545:7509
Dsc: Prabhakar J. Pise, SM5:May 71:810:8083; Fung Kee Chin, SM6:June 71:930:8158
Clo: SM5:May 72:493:8860
TR:137:448
Tie-Backs in Clay to Support Sheeted Excavation, with Mahmood M. Alizadeh, SM2:Mar 70:495:7163
Dsc: James J. Schnabel, SM5:Sept 70:1835:7499
Clo: SM1:Jan 72:117:8622
TR:137:5
See Willard J. Turnbull, SM11:Nov 73:939:10170

Mantell, Murray I.
Scientific Method-a Triad, PP1:July 69:47:6676
TR:135:304
Transient (Dual) Zoning, UP1:Mar 74:1:10386
Dsc, PP1:Sept 70:144:7549, of "One Man's View of Registration Today", PP1:July 69:1:6653

Manthei, James M.
See John R. Baldwin, CO2:Nov 71:177:8501

Manuzio, Caterina
Limit State Philosophy, State-of-Art Report 1, TB:73:II-19-835

Maohav, M. R.
See N. S.V. Kameswara Rao, TN: SM2:Mar 70:779:7117

Maples, William A.
Summary of Session II - Shotcrete Applications in the Americas, SUSS:July 73:58

Mar, Brian W.
Integrated Information Systems for Utilities, UP2: Sept 73:123:9984
TR:139:375
Dsc, with Martin E. Harper, SA2:Apr 70:651:7190, of "Character of Sludge Drying", SA5:Oct 69:849:6833
Dsc, SA5:Oct 70:1292:7569, of "Optimal Reservoir Releases for Water Quality Control", SA3:June 70:727:7361
See Martin E. Harper, SA2:Apr 70:381:7222

Mara, David Duncan
Dsc, with David J.A. Williams, SA2:Apr 70:628:7190, of "Sulfide Production in Waste Stabilization Ponds", SA3:June 69:607:6637
Dsc, EE5:Oct 74:1191:10836, of "Faecal Bacterial Kinetics in Stabilization Ponds", EE1:Feb 74:119:10323

Marais, Gerrit v.R.
Faecal Bacterial Kinetics in Stabilization Ponds, EE1: Feb 74:119:10323
Dsc: David Duncan Mara, EE5:Oct 74:1191:10836

Marano, David
See Stanley D. Wilson, SM4:July 68:859:6026

Marathe, Madhav S.
Dsc, EM1:Feb 70:95:7044, of "Fracture Mechanism in Concrete: How Much do We Know?", EM3: June 69:531:6604
Dsc, EM5:Oct 72:1312:9221, of "Griffith Fracture Criterion and Concrete", EM6:Dec 71:1663:8597

Marcal, Pedro V.
See Robert H. Mallett, ST9:Sept 68:2081:6115

March, Frederick
See Raymond E. Rose, CE:July 69:47

Marche, Calude
Deformation of Tidal Waves in Shallow Estuaries, with Hans-Werner Partenscky, CE13:72:III-2395

Marche, Rene
Dsc, with Edouard Recordon, GT3:Mar 74:376:10378, of " Analysis of Piles in Soil Undergoing Lateral Movement", SM5:May 73:391:9740

Marchetti, S.
See Michele B. Jamiolkowski, PES:73:III-237

Marchman, James F., III
Surface Loading in Open-Top Tanks, TN: ST11:Nov 70:2551:7690
Wind Loading on Free-Swinging Traffic Signals, TE2: May 71:237:8140
Dsc: Alfred G. Burlbaugh, TE4:Nov 71:718:8486
Clo: TE2:May 72:460:8862
TR:137:371

Marchuk, G. I.
About Formulation of the Problems on the Dynamics of the Ocean, ISSF:Aug 72:69

Marcuson, William F., III
Time Effects on Dynamic Shear Modulus of Clays, with Harvey E. Wahls, SM12:Dec 72:1359:9442
TR:138:588

Marecos, Jose
Field Observation of Tagus River Suspension Bridge, with Mario Castanheta and J. Teixeira Trigo, ST4:Apr 69:555:6492
Dsc: Robert H. Scanlan, ST10:Oct 69:2325:6803
Clo: ST4:Apr 70:845:7191
TR:136:675

Marek, Julius
See Paul V. Gump, ABS:71:61

Marek, Pavel J.
Applications, State-of-Art Report 5, TB:73:II-19-869
Behavior of Continuous Crane Rails, with J. Hartley Daniels, ST4:Apr 71:1081:8067
Dsc: Robert W. Dannemann, ST12:Dec 71:2929:8557; Anders Granstrom, ST1:Jan 72:360:8623
Clo: ST7:July 72:1667:9003
TR:137:586
See Frantisek Faltus, TB:73:II-13-37

Margason, Edward
Sand Drain Performance on a San Francisco Bay Mud Site, with Ignacio Arango, PES:72:I-181
See James E. Roberts, CE:Feb 74:56

Margolias, David S.
See Mehran Lashkari, EM5:Oct 72:1017:9230

Mariani, Nicholas
Tranverse Stiffener Requirements for Curved Webs, with John D. Mozer, Clive L. Dym and Charles G. Culver, ST4:Apr 73:757:9684
TR:139:309

Marino, Frank J.
Dsc, ST2:Feb 69:272:6373, of "Design of Beams With Web Openings", ST3:Mar 68:783:5869

Marino, Miguel A.
Identification of Parameters in Finite Leaky Aquifer System, HY2:Feb 73:319:9567
TR:139:212
Longitudinal Dispersion in Saturated Porous Media, HY1:Jan 74:151:10296
Water-Table Fluctuation in Response to Recharge, IR2:June 74:117:10582

Marinos, George
Estimation of Hurricane Surge Hydrographs, with Jerry W. Woodward, WW2:May 68:189:5945
TR:135:730

Marjerrison, Matthew
Electric Transmission Tower Design, PO1:May 68:1:5932
Dsc: Walter G. Thomas, PO1:Mar 69:147:6442; Gene M. Wilhoite, PO1:Mar 69:148:6442; Joseph R. Arena, PO1:Mar 69:149:6442
Clo: PO2:Oct 69:357:6801
TR:135:514

Mark, Mary Anne
Dsc, EI1:Jan 74:85:10252, of "Nader's Raiders Versus California Water Project", PP1:Jan 73:39:9490

Mark, Robert
Photoelastic Analysis of Concrete Storage Tanks, with David P. Billington, ST9:Sept 69:1939:6791
TR:135:270
Dsc, with Jorge D. Riera, ST4:Apr 68:1075:5877, of "Stresses in a Pressurized Cylinder With a Hole", ST5:Oct 67:383:5524
See Stanley K. Takahashi, ST3:Mar 69:317:6440
See John F. Abel, SM7:July 73:509:9858

Markland, Eric
Dsc, IR4:Dec 71:656:8553, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987
Dsc, HY3:Mar 72:577:8749, of "Flow Around Inclined Sheet Pile", HY7:July 71:1101:8248
See Joseph A. Clark, HY10:Oct 71:1653:8459
See Joseph A. Clark, HY11:Nov 73:1897:10119

Markofsky, Mark
Prediction of Water Quality in Stratified Reservoirs, with Donald R.F. Harleman, HY5:May 73:729:9730
TR:139:279

Markov, S. B.
See I. L. Rozovsky, ISSF:Aug 72:649

Markowsky, James J.
Modeling Gas Mixing within Steel Chimney Liners, EPCE:Aug 74:137

Marks, B. Dan
Acceleration of Lime-Clay Reactions with Salt, with T. Allan Haliburton, SM4:Apr 72:327:8827
Dsc: Elias Zolkov, SM12:Dec 72:1421:9394
Clo: SM11:Nov 73:1013:10112
TR:139:44
See T. Allan Haliburton, TE2:May 72:325:8870

Marks, David H.
Location Models: Solid Waste Collection Example, with Jon C. Liebman, UP1:Apr 71:15:8027
TR:137:891
Mathematical Models of Location: A Review, with Charles S. ReVelle and Jon C. Liebman, UP1:Mar 70:81:7164
TR:136:926
Routing for Public Service Vehicles, with Robert Stricker, UP2:Dec 71:165:8573
TR:137:945
Dsc, with Jon C. Liebman, TE3:Aug 69:584:6708, of "Optimization of Pipelines Transporting Solids", PL1:Oct 68:89:6179
Dsc, with Jon C. Liebman, SA1:Feb 71:130:7865, of "Optimal Routing of Refuse Collection Vehicles", SA4:Aug 70:893:7451
Dsc, with Guy Leclerc, HY4:Aug 71:541:8269, of "Water Reuse Systems Analysis", SA1:Feb 71:41:7898
See James F. Hudson, EE3:June 74:784:10564
See Paul H. Krishen, EE4:Aug 74:807:10712
See Louis A. Fuertes, UP2:Nov 74:155:10913
See Donald Grossman, EE6:Dec 74:1219:11022

Marlow, Thomas A.
Participatory Management of Professionals, CE:Oct 73:71
Dsc: Stanley I. Hart, CE:May 74:103
TR:139:467
See Donald E. Campbell, PL2:July 67:71:5353

Marriage, L. Dean
The Watershed Approach for Fish and Wildlife, IAWM:72:369

Marrs, R. W.
See R. G. Reeves, ESE:Apr 70:67

Marryatt, H. W.
Sprinklers, TB:73:Ib-8-681

Marsal, Raul J.
Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams, with Daniel Resendiz, 4PCSM:71:I237
Dsc: Stanley D. Wilson, 4PCSM:72:III195; H. Cambefort, 4PCSM:72:III199
Clo: 4PCSM:72:III205
Eight Years of Observations at El Infiernillo Dam, with Luis Ramirez de Arellano, PES:72:I-703
The Failure of Laguna Dam, with Wolfang Pohlenz, PES:72:I-489
Foundation of Cerro de Oro Dam, Mexico, with Aurelio Benassini, EFFD:Mar 74:249
Geotechnical Studies for La Angostura Project, Mexico, EFFD:Mar 74:425
Dsc, SM1:Jan 69:349:6324, of "Drained Strength Characteristics of Sands", SM6:Nov 67:117:5561
Dsc, SM3:Mar 71:590:7943, of "Review of Shearing Strength of Rockfill", SM4:July 70:1159:7394

Marschi, N. Dean
Evaluation of Properties of Rockfill Materials, with Clarence K. Chan and H. Bolton Seed, SM1:Jan 72: 95:8672
Dsc: Mosaid M. Al-Hussaini, SM12:Dec 72:1409: 9394; Raymond J. Frost, SM12:Dec 72:1411: 9394
TR:138:160

Marsden, Howard J.
Regional Approach to Port Development Planning, WW1:Feb 71:33:7896
TR:137:884

Marsden, Michael A.
See Edward R. Burroughs, Jr., IR1:Mar 72:1:8770

Marsh, Edward T.
Pipeline Location: Bibliography Supplement, TE2: May 73:363:9739
TR:139:292

Marsh, Roland O.
See Peter I. Yanev, SDNPF:Dec 73:397

Marshall, Daniel P., Jr.
Replacement-Lock and Dam No. 26: Condition of Existing Structure, WW1:Feb 70:27:7097
Errata: WW1:Feb 71:213:7868
TR:136:477

Marshall, Duane W.
See Clifford W. Randall, SA2:Apr 70:395:7223

Marshall, Peter J.
Ultimate Biaxial Capacity of Boxed Steel Columns, with John S. Ellis, ST9:Sept 70:1873:7515
TR:136:1040

Marshall, Peter W.
Risk Evaluations for Offshore Structures, ST12:Dec 69:2907:6981
TR:136:480

Marshall, R. D.
See Herbert C. S. Thom, WW2:May 71:355:8144
See W. Alan Dalgliesh, TB:73:Ib-7-383

Marston, Frank Alwyn
Frank Marston Dies, CE:Apr 72:68
Memoir of, TR:137:1048

Martens, Irvin C.
Dsc, HY10:Oct 74:1501:10839, of "Dam-Break Flood in a Prismatic Dry Channel", HY12:Dec 73: 2195:10233

Martens, Robert R.
See Jimmie E. Quon, SA2:Apr 70:437:7232

Martin, Angel J.
Legal Aspects of Thermal Discharges, HY7:July 74: 1059:10682

Martin, Arthur, Jr.
Safety Inspection Of Hydro Projects-FPC Order 315, PO2:Mar 71:449:7958
Dsc: Andrew Eberhardt, PO4:Dec 71:886:8554
Clo: PO2:Oct 72:352:9223
TR:137:583

Martin, C. Samuel
Behavior Of Porous Bed Near Flow Singularity, SM2:Feb 71:393:7935
Errata: SM2:Feb 72:225:8683
TR:137:403
Characteristics of an Air-Water Mixture in a Vertical Shaft, HYB:Aug 73:323
Finite-Difference Simulation of Bore Propagation, with Jerome J. Zovne, HY7:July 71:993:8234
Errata: HY5:May 72:954:8859
TR:137:733
Graphical and Computer Analysis of Tailrace Surges, PO3:July 71:697:8261
Dsc: Wayne A. Johnson and Mohammad Hanif Chaudhry, PO1:June 72:179:8927
Clo: PO1:May 73:9690
TR:137:1040
Open-Channel Simulation by Digital Computer, with Frank G. De Fazio, HY6:Nov 69:2049:6911
TR:136:644
Seepage Force on Interfacial Bed Particles, with Mustafa M. Aral, HY7:July 71:1081:8239
Errata: HY6:June 72:1080:8925
TR:137:738
Dsc, HY7:July 71:1159:8223, of "Computation of Open-Channel Surges and Shocks", HY12:Dec 70: 2581:7780
Dsc, HY1:Jan 72:276:8620, of "Hydrodynamic Effects of Seepage on Bed Particles", HY3:Mar 71: 421:7973

Martin, David W.
See Ernest L. Albasiny, ST7:July 68:1850:6017

Martin, Frederick R.
Design and Evaluation of Aircraft Pavements -- 1971, with Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785:10154
TR:139:526

Martin, Glen L.
See Dale L. Rowlison, IR1:Mar 71:39:7981

Martin, Harold C.
Dsc, ST11:Nov 68:2635:6203, of "Analysis by Group Iteration Using Substructures", ST2:Feb 68:363: 5779

Martin, Ignacio
Good Esthetics a "Happy Accident?", CE:Dec 74:71
Reinforced Concrete Columns, State-of-Art Report 5, TB:73:III-21-223

Martin, J. C.
See Frederick G. Pohland, SA6:Dec 69:6931

Martin, James H.
See William D. Kovacs, TN: ST2:Feb 74:200:10310

Martin, John B.
Bounds for Impulsively Loaded Plastic Structures, with Alan R.S. Ronter, EM1:Feb 72:107:8745
TR:138:156
See J.-M. Chern, EM2:Apr 73:261:9646

Martin, L. Glen
See Richard L. Foster, IR4:Dec 69:551:6984

Martin, Larry D.
See Henry Liu, HY5:Sept 68:1245:6116
See Henry Liu, HY1:Jan 70:143:7027

Martin, Lawrence H.
Torsion and Bending of Prestressed Concrete Beams, with Peter J. Wainwright, ST11:Nov 73:2229:10129
Dsc: Kevin D. Below, ST9:Sept 74:1970:10772; Madhusudan Chakraborty, ST9:Sept 74:1971: 10772; Ganpat S. Pandit, ST10:Oct 74:2150: 10834
TR:139:508

Martin, Lawrence Wayne
Tall Floating Towers, with Phillip J. McCabe, CEO-II:70:879

Martin, Michael J.
See Charles H. Goodspeed, ST8:Aug 74:1677:10763

Martin, Park
Park Martin Dead at 84, CE:Oct 72:89

Martin, Philippe P.
See John T. Christian, SM7:July 72:693:9030

Martin, R. Torrence
See W. David Carrier, III, SM11:Nov 73:979:10156
See Raymond J. Krizek, GT12:Dec 74:1275:11030

Martin, William E.
Dsc, with Robert A. Young, Maurice M. Kelso and Jimmye S. Hillman, IR4:Dec 69:611:6930, of "Role of Irrigation in the West's Expanding Economy", IR4:Dec 68:401:6281

Martinez, Jose E.
See Mike E. James, Jr., ST7:July 74:1451:10681

Martinez, Renato G.
Dsc, Legislation and Engineering, CE:Oct 70:51

Martinez de la Plaza, Celetino
See Victor Sardi, HY7:July 73:1182:9823

Marvin, Eugene L.
Viscoelastic Plate on Poroelastic Foundation, EM4: Apr 72:911:9133
  Errata: EM3:June 73:602:9759
  TR:139:94

Marwad , S. C.
See S. K. Guha, TN: EM2:Apr 71:589:8017

Marwadi, P. D.
See S. K. Guha, TN: EM2:Apr 71:589:8017

Marynick, Stephen M.
See Robert V. Phillips, CE:July 72:70

Marzouk, Osman A.
Linear Theory of Orthotropic Cylindrical Shells, with George Abdel-Sayed, ST11:Nov 73:2287:10143
  Errata: ST10:Oct 74:2152:10834
  TR:139:514

Masch, Frank D.
Analysis of Hurricane Tides at Padre Island, Texas, with Robert J. Brandes, Floyd R. Hill and William A. White, 12CEC:71:2031
Erosion of Cohesive Sediments, Task Commitee on Erosion of Cohesive MaterialH, HY4:July 68:1017: 6044
  Dsc: M. W. Owen, HY2:Mar 69:749:6433; Robert E. Paaswell, HY2:Mar 69:751:6433; Mohammad Akram Gill, HY2:Mar 69:753:6433; Emmanuel Partheniades, HY3:May 69:10:6524
  Clo: HY2:Feb 70:580:7045
  TR:135:700
Research Needs on Thermal and Sedimentary Pollution in Tidal Waters by the Committee on Tidal Hydraulics of the Hydraulics Division, HY7: July 70:1539:7426
  TR:136:1177
See Charles Dalton, EM5:Oct 68:1249:6193
See Chin-Yuan Lee, 12CEC:71:223
See Shih-Ang Zagustin, CE13:72:III-2429
See Bobby E. Price, TE3:Aug 72:547:9117

Mashburn, Myles Kenneth, Sr.
Memoir of, TR:137:1065

Maslov, B.
See James N. Luthin, IR1:Mar 69:117:6446

Mason, Curtis
Character and Stability of a Natural Tidal Inlet, with Robert M. Sorensen, CE13:72:II-781
Regime Equations and Tidal Inlets, WW3:Aug 73: 393:9952
  Dsc: Morrough P. O'Brien, WW2:May 74:164: 10509; Muthusamy Krishnamurthy, WW2:May 74:165:10509; Per Moller Bruun, WW4:Nov 74: 403:10903; Adrian G. Chantler, WW4:Nov 74: 409:10903; Chintaman V. Gole, Zal S. Tarapore, Shashikant B. Brahme and Ulhas V. Purandare, WW4:Nov 74:411:10903
  TR:139:450

Mason, Earl S.
See Gordon H. Flammer, HY7:July 70:1485:7418

Mason, George E.
Construction as an Option within Civil Engineering, with Russel C. Jones, CEE:Feb 74:1-620
See Alfred G. Bishara, ST9:Sept 71:2261:8387

Mason, J. W.
See Donald R. Rowe, SA5:Oct 70:1221:7619

Mason, Ralph
Satellite Transit at Seattle-Tacoma Airport, TE4:Nov 72:953:9379
  TR:138:566

Mason, William E.
Elastic Shear Analysis of General Prismatic Beams, with Leonard R. Herrmann, EM4:Aug 68:965:6082
  Errata: EM4:Aug 69:1007:6705
  TR:135:604

Masri, Sami F.
Forced Vibration of Class of Nonlinear Dissipative Beams, EM4:Aug 73:669:9959
  TR:139:441
Periodic Excitation of Multiple-Unit Impact Dampers, EM6:Dec 70:1195:7747
  TR:136:1321

Massel, S. T.
See S. S. Strekalov, CE13:72:I-307

Massey, Campbell
Lateral Stability of Nonuniform Cantilevers, with Peter J. McGuire, EM3:June 71:673:8172
  Dsc: Nicholas S. Trahair, Sritawat Kitipornchai and Gregory J. Hancock, EM6:Dec 71:1753: 8551; David A. Nethercot, EM1:Feb 72:274: 8680
  Clo: EM5:Oct 72:1305:9221
  TR:137:700

Massman, Henry Joseph, Jr.
Memoir of, TR:136:1356

Massonnet, Charles
Plastic Analysis and Design, Theme Report, TB:73: II-15-255

Mast, Robert F.
Auxiliary Reinforcement in Concrete Connections, ST6:June 68:1485:6002
  Dsc: Neil M. Hawkins, ST3:Mar 69:308:6430
  Clo: ST11:Nov 69:2520:6867
  TR:135:584
Walt Disney World Monorail Designed for Smooth Riding, with Charles W. Dolan, CE:Mar 72:48
  TR:138:135

Masters, Frank M.
Frank Masters Dies at 90, CE:Apr 74:80

Masters, Hugh E.
See Richard Field, EE2:Apr 74:459:10473

Masucci, Maurice R.
Four Win ASCE Zone Scholarships: Masucci, CE: Sept 73:112

Masur, Ernest F.
Engineering at the University of Illinois (Chicago Circle), CEE:Feb 74:1-127
Dsc, "Ladies" and Engineers, CE:Jan 74:26
Optimum Stiffness and Strength of Elastic Structures, EM5:Oct 70:621:7580
  TR:136:7580
Dsc, ST12:Dec 70:2680:7714, of "Bounding of Frame Buckling Loads", ST8:Aug 70:1639:7452
Dsc, ST3:Mar 71:1008:7944, of " Elastic Lateral Buckling of Steel Beam", ST9:Sept 70:1919:7555

Matalas, N. C.
See W. J. Conover, EM5:Oct 69:1063:6814

Matalucci, Rudolph V.
Infrared Aerial Surveys in Environmental Engineering, with Mohamed Abdel-Hady, SA6:Dec 68:1071:6277
  TR:135:1038

Mather, Bryant
Admixtures, RCCD:70:75
Behavior Of Concrete Exposed To The Sea, CEO-II: 70:987
Economic Aspects of Curing Mass Concrete, ECCD: 72:39

Matheson, David S.
Dsc, with Sivajogi D. Koppula, SM7:July 71:1034: 8224, of "Analysis of Soil Movement Around a Deep Excavation", SM5:Sept 70:1655:7512

Mathew, Cheruvathur I.
Dsc, ST10:Oct 71:2619:8411, of "Finite Element Analysis of Hyperbolic Paraboloid Shells", ST1:Jan 71:407:7847

Mathew, P. John
See Orlando B. Andersland, SM5:May 73:365:9713

Mathews, Albert A.
Keynote Address, SUSS:July 73:3

Mathews, Michael J.
See Harry G. Wenzel, Jr., HY12:Dec 70:2467:7724

Mathioudis, Miltos Th.
See Peri Z. Valvis, PO2:Mar 71:567:8003

Mathis, Samuel Jackson
Memoir of, TR:138:633

Mathor, Rajendra K.
See James A. Mandel, EM4:Aug 71:1173:8316

Matlock, Hudson
Analytical Model for Prediction of Ice-Structure Interaction, with William P. Dawkins and John J. Panak, EM4:Aug 71:1083:8282
  TR:137:1018
See Lymon C. Reese, HY4:July 68:961:6037
See William Ronald Hudson, ST10:Oct 68:2257:6157
See Harold J. Salane, ST3:Mar 69:441:6477
See Clifford O. Hays, Jr., ST10:Oct 73:2011:10091

Matlock, William G.
See Michael L. Sorey, HY1:Jan 69:423:6368

Matov, N. G.
See A. P. Vasiliev, TB:73:Ia-3-489

Matson, J. V.
See D. M. Pipes, EE1:Feb 74:225:10302

Matsubara, Kentaro
Rail Tracks for Japan's 130-mph Trains, CE:Dec 69: 32
  TR:135:1012

Matsui, Yuzo
See Shunta Shiraishi, CE:Mar 70:43

Matsumoto, Gerald Y.
See C. D. Mote, Jr., EM3:June 72:595:8968

Matsumura, Paul T.
See Julian L. Bardoff, IMROD:Sept 73:849

Matsuo, Takahiko
See Takeshi Ijima, 12CEC:71:137

Matsushita, Kiyoo
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, with Yoshichita Uchida, TB:73:Ia-12-1067

Matte, John C.
Norwood Dam Foundation Stabilization: A Case History, IMROD:Sept 73:697

Mattes, Neil S.
See Harry G. Poulos, TN: GT2:Feb 74:185:10310

Matteson, Byron Wynne
Memoir of, TR:135:1132

Matthew, George D.
Dsc, EM1:Feb 68:354:5772, of "Potential Flow Over Spillways at Low Heads", EM3:June 67:95:5287

Matthew, Paul
Geothermal Operating Experience at Geysers Power Plant, PO2:Nov 73:329:10127
  TR:139:376

Matthews, William H.
Environmental Management Broadening the Base of Civil Engineering Education, CEE:Feb 74:1-518

Matthys, John H.
See Franklin B. Johnson, ST2:Feb 73:259:9577

Mattick, Douglas M.
Dsc, CO2:Nov 71:343:8482, of "Optimum Replacement Life Of Large Scrapers", CO1:Mar 71:37:8000

Mattock, Alan H.
Behavior Under Load of Composite Box-Girder Bridges, with Sterling B. Johnston, ST10:Oct 68: 2351:6168
  Errata: CO1:June 70:82:7038
  TR:136:645
Diagonal Tension Cracking in Concrete Beams with Axial Forces, ST9:Oct 69:1887:6776
  Dsc: Fritz Leonhardt, ST6:June 70:1243:7314; Ganpat S. Pandit, ST6:June 70:1245:7314
  Clo: ST12:Dec 70:2662:7714
  TR:136:221
See Munther J. Haddadin, ST9:Sept 71:2277:8394

Matyas, Elmer 6.
Dsc, SM3:May 69:924:6525, of "Air Permeability of Compacted Cohesive Soils", SM4:July 68:981:6040

Mau, Sheng-taur
Minimum Expected Cost Optimization, with Robert G. Sexsmith, ST9:Sept 72:2043:9195
  TR:138:447

Maughn, W. Don
Principles and Standards for Water and Land Resources Planning, PP3:July 72:311:9059
  TR:138:452

Mauldin, Alfred F., Jr.
See Larry W. Carter, SA6:Dec 69:1117:6975

Maupin, George W., Jr.
Sprinkle Treatment Increases Highway Skid Resistance, CE:Feb 72:51
  TR:138:86

Maurizi, Mario J.
See Patricio A. Laura, EM5:Oct 71:1588:8406
See Enrique Romanelli, EM2:Apr 72:415:8809

Mavis, Frederic T.
Flow of Sand and Water in Pipes, TN: HY3:Mar 71: 483:7945
Nomographs For Some Cumulative Frequency Distributions, TN: HY10:Oct 70:2177:7575
Virtual Mass Of Cylinders In Water, TN: HY1:Jan 72:319:8617
Virtual Mass of Plates and Discs in Water, HY10:Oct 70:1947:7593
  Dsc: C. J. Garrison, HY4:Apr 71:631:8012
  Clo: HY11:Nov 71:1901:8483
  TR:137:157

Dsc, SU2:Sept 68:285:6091, of "The Unsymmetrical Vertical Parabola", SU1:Jan 68:61:5739
Dsc, IR4:Dec 68:527:6261, of " Rectangular Cutthroat Flow Measuring Flumes", IR:Dec 67:1:5628
Dsc, ST3:Mar 69:528:6430, of "Probabilistic Structural Analysis and Design", ST7:July 68:1665:6019
Dsc, HY6:Nov 69:2191:6866, of "Generalized Rainfall-Duration-Frequency Relationships", HY1:Jan 69:311:6357
Dsc, HY4:Apr 70:1103:7189, of "Energy Dissipators for Large Culverts", HY6:Nov 69:1941:6893
Dsc, ST4:Apr 70:849:7191, of "Safety Factors and Probability in Structural Design", ST7:July 69:1389:6667
Dsc, HY6:June 70:1377:7310, of "Channel Slope Effect on Peak Discharge of Natural Streams", HY2:Feb 70:307:7052
Dsc, HY8:Aug 70:1765:7439, of "Graphical Solution to Hydraulic Jump", HY1:Jan 70:103:7014
Dsc, HY8:Aug 70:1773:7439, of "Linear Proportional Weirs", HY2:Feb 70:379:7062
Dsc, HY12:Dec 70:2675:7711, of "Flow Analysis of Large Triangular Weit", HY7:July 70:1435:7405
Dsc, ST12:Dec 70:2679:7714, of "Two-Dimensional Cable Analysis", ST7:July 70:1581:7436
Dsc, HY1:Jan 71:170:7783, of "Nonlinear Flow in Porous Media", HY6:Nov 69:1847:6883
Dsc, HY9:Sept 71:1570:8345, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994
Dsc, ST8:Aug 72:1888:9079, of "Hardy Cross and the Rise of Numerical Methods", ST3:Mar 72:691:8762
Dsc, HY7:July 74:1076:10635, of "Characteristics of Hydrofoil Weirs", HY2:Feb 73:259:9542
Dsc, HY9:Sept 74:1296:10770, of "Sediment Transport: New Approach and Analysis", HY11:Nov 73:2041:10167

Mawal, Manak B.
See Ganpat S. Pandit, ST7:July 73:1409:9850

Mawdsley, John A.
Computing Evapotranspiration by Geostrophic Drag Concept, with Wilfried Brutsaert, HY1:Jan 73:99:9483
  TR:139:183

Maxman, Robert J.
The Environmental Capacity of Roadway Networks, with Carl P. Sharpe, UT73:May 73:237

Maxwell, Harold M.
Dsc, CE:Mar 70:42, on Black People Call for ASCE Social Action, CE:Dec 69:73

Maxwell, W. Hall C.
Axisymmetric Shallow Submerged Turbulent Jets, with Hormoz Pazwash, HY4:Apr 73:637:9675
  Errata: HY3:Mar 74:492:10379
  TR:139:266
Flux Development Region in Submerged Jets, EM6:Dec 70:1061:7756
  Clo: EM5:Oct 71:1569:8406
  TR:136:1324
P-Function Approximations For Jet Momentum Flux, with Kuo- Cheng Chang, TN: EM4:Aug 72:1011:9082
Surface Tension in Froude Models, with J. Richard Weggel, HY2:Mar 69:677:6482
  Errata: HY3:Mar 70:845:7113
  TR:135:61
Dsc, IR2:June 68:280:5964, of "Energy Loss at Pipe Junctions", IR3:Sept 67:59:5411
Dsc, HY8:Aug 72:1459:9076, of "Cooling Water Density Wedges in Streams", HY10:Oct 71:1639:8446
Dsc, HY5:May 74:697:10505, of "Limitations to Length of Contained Oil Slicks", HY5:May 73:701:9711
See J. Richard Weggel, WW3:Aug 70:623:7467

Maxworthy, T.
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, ISSF:Aug 72:613

May, F. W.
Dsc, Recycling Resources, CE:Apr 74:26

May, Gerald W.
Elastic-Plastic Bending of Rectangular Plates, with Kurt H. Gerstle, ST7:July 71:1863:8237
  Dsc: Benjamin Whang, ST1:Jan 72:386:8623
  Clo: ST8:Aug 72:1874:9079
  TR:137:686

May, Robert A.
Dsc, CE:Dec 71:42, on ASCE and Social Issues, CE:May 71:58
Dsc, CO1:Mar 72:134:8748, of "A Profile of the Future Construction System", CO1:Mar 71:147:7938

Mayer, Armand
Dsc, SM12:Dec 72:1425:9394, of "Seepage Through Dams with Horizontal Toe Drain", SM5:May 72:461:8878

Mayer, Paul G.
See Billy L. Edge, CEO-II:70:13
See Billy L. Edge, WW1:Feb 71:167:7889

Mayer, Peter A.
Developing an Improved Traffic Operations Program, TE2:May 71:263:8099
  TR:137:339

Mayer, Richard R.
On Writing Descriptions, SU2:Sept 68:101:6094
  Dsc: Gurdon H. Wattles, SU1:Oct 69:178:6804
  Clo: SU1:Apr 70:115:7192
  TR:135:282
Dsc, PP1:July 69:93:6642, of "Registration of Engineers", PP1:June 68:1:5983

Mayer, Robert H., Jr.
See Robert M. Stark, CO1:July 69:131:6640

Mayfield, George M.
Dsc, CE:Sept 70:53, on Monuments vs. Plane Coordinates, CE:Dec 69:56

Mayo, David F.
Development of Nonpneumatic Caisson Engineering, CO1:July 73:155:9838
  Errata: CO3:Sept 74:491:10768
  TR:139:437

Mayo, Robert S.
Dsc, CE:Mar 72:39, on Soft-Ground Tunneling Technology on the BART Project, CE:Oct 71:72

Mayrbaurl, Ronald M.
See Roman Wolchuk, ST12:Dec 74:2525:10977

Mays, John R.
See Isadore K. Silverman, ST1:Jan 74:249:10262

Mazelsky, Bernard
See Sehng-Rong Lin, EM1:Feb 74:79:10368

Mazilu, P.
Aseismic Design in Romania, TB:73:Ib-6-279

Mazumdar, Jagannath
See John S. Hewitt, EM6:Dec 74:1143:11004

Mazurik, Ami
See Zvi Getzler, SM5:Sept 68:1123:6105

Mazurkiewicz, B. K.
The Rupture Figure for a Double Wall Cofferdam, PES:72:I-1271

Mazzeo, L. Agustin
Perimetral Tube for 37-Story Steel Building, with Armin De Fries, ST6:June 72:1255:8937
Dsc: Avigdor Rutenberg, ST3:Mar 73:586:9583
Clo: ST2:Feb 74:466:10306
TR:139:74

McAllister, Robert J.
Control of Thermal Effects at Beaver Valley Station, with Lawrence C. Neale and Bruno Brodfeld, PO3: June 70:289:7319
TR:137:39

Mc Arthur, Arthur James
Architecture of Tall Buildings, State-of-Art Report 8, with Frank L. Cordella and Robert L. Knapp, TB: 73:Ia-1-199

McArthur, Robin P.
See Clifton W. Johnson, HYB:Aug 73:359

McAward, Patrick J., Jr.
See Austin E. Brant, Jr., TE2:May 74:505:10552

McBean, Edward A.
Dsc, SA3:June 72:603:8928, of "Water Quality Simulation Model", SA5:Oct 71:569:8429
Dsc, IR1:Mar 74:96:10380, of "Probabilistic Short-Term River Yield Forecasts", IR2:June 73:143:9785
Dsc, HY4:Apr 74:617:10441, of "Discrete Gradient Optimization of Water Systems", HY6:June 73:863: 9804

McBreen, James R.
Memoir of, TR:138:634

McBride, Lewis W.
Owner's Return from CPM-Fact or Fiction, CO1: June 70:1:7316
TR:136:461

McBroom, James T.
Fish and Wildlife Values in Water Development, IAWM:72:377

McCabe, Patrick J.
See Melvin R. Ramey, EM2:Apr 74:139:10469

McCabe, Phillip J.
See Lawrence Wayne Martin, CEO-II:70:879

McCabe, Robert A.
Beach Behavior, North Shore, Long Island Sound, WW4:Nov 70:781:7679
TR:136:1296

McCaffrey, Richard J.
Dynamics of Guyed Towers, with Alois J. Hartmann, ST6:June 72:1309:8988
TR:138:303

McCall, Jim A.
Memoir of, TR:135:1133

McCall, John E.
See Peter W. Anderson, IR3:Sept 72:375:9205

McCann, S. Brian
Beach Changes and Wave Conditions, New Brunswick, with Edward A. Bryant, CE13:72:II-1293

McCarter, Michael K.
Strength Versus Energy Dissipation in Sandstone, with John E. Willson, RM14:73:223

McCarthy, Gerald T.
Engineering Management for the Dallas/Fort Worth Airport, ASC73:Mar 73:165
Owner-Engineer-Contractor Economic Considerations in Dam Construction, ECCD:72:493
Surface Water Resources Planning in Hudson Basin, with Nicholas L. Barbarossa, HY2:Mar 68:375:5841
Dsc: Robert L. McFall, HY1:Jan 69:506:6323
Clo: HY5:Sept 69:1726:6784
TR:135:565
Tocks Island Lake Project, EE4:Aug 74:803:10718

McCarty, James E.
Dsc, DSC, Paperwork and Environmental Considerations, CE:Jan 72:48

McCarty, Perry L.
The Water Studies Program at Stanford University, CEE:Feb 74:1-193
See Frank E. Stratton, SA5:Oct 69:952:6802
See Alonzo W. Lawrence, SA3:June 70:757:7365

McCaslin, John
See Ralph E. Miller, Jr., EC5:70:543
See Ralph E. Miller, Jr., ST1:Jan 71:329:7854

McClellan, Dorothy M.N.
Engineering Internship, CE:Dec 71:78
Clo: CE:Mar 72:57
Dsc, CE:July 73:26, on Are More Women Needed in Civil Engineering, CE:May 73:54

McClelland, Bramlette
Design and Performance of Deep Foundations, PES: 73:II-111
Dsc: George G. Goble and Frank Rausche, PES: 73:III-227; C. P. Wroth, PES:73:III-231
Design of Deep Penetration Piles for Ocean Structures, GT7:July 74:705:10665
Problems in Design and Installation of Offshore Piles, with John A. Focht, Jr. and William J. Emrich, SM6:Nov 69:1491:6913
Dsc: George G. Meyerhof, SM3:May 70:1079: 7249; Denys A. Fox, SM5:Sept 70:1823:7499
Clo: SM6:June 71:923:8158
TR:136:734

McCloskey, Charles C., III
See James E. Crews, PP4:Oct 72:543:9267

McClure, Cole R.
Use of Shotcrete from the Standpoint of the Designer, SUSS:July 73:18
See Harry Sutcliffe, CE:Nov 69:51

McClure, George S., Jr.
Sustained and Cyclic Loading of Concrete Beams, with Kurt H. Gerstle and Leonard G. Tulin, ST2: Feb 73:243:9564
TR:139:225

McClure, Richard M.
Dsc, ST12:Dec 71:2911:8557, of "Need For Diaphragms in Concrete Box Girders", ST3:Mar 71:825:7965

McCollom, Bruce F.
See Carl F. Crumpton, CE:Nov 74:55

McCollom, Robert L.
See Jack K. Tuttle, CEO-II:70:805

McConnel, Richard E.
Least-Weight Frameworks for Loads Across Span, EM5:Oct 74:885:10872
See Robin Shepherd, EM3:June 72:609:8949

McConnell, A. M.
See Robert H. Weight, PO2:Nov 68:143:6229

McConnell, Clifford H.
Dam Safety Program in Pennsylvania, IMROD:Sept 73:139

McCorkle, Burr L.
Side-Bearing Pier Foundations, CE:May 69:65
Dsc: Peter Kocsis, CE:Aug 70:63
Clo: CE:Aug 70:63
TR:135:314

Dsc, CE:Apr 72:49, on Anti-Technology--The New Myth, CE:Jan 72:68

McCormick, Fred C.
Why Not Plastics Bridges?, ST8:Aug 72:1757:9143
TR:138:399
See Furman W. Barton, CEE:Feb 74:1-962

McCormick, George
Estimation of Deep Freezing Indices, TE3:Aug 71:401:8276
Dsc: S. L. Dhingra, TE2:May 72:461:8862
Clo: TE4:Nov 72:9309
TR:137:996

McCormick, John
Dsc, with Joseph P. Wright, ST3:Mar 70:729:7116, of "Nonlinear Field Analysis of Structural Nets", ST5:May 69:889:6556

McCormick, M.
Dsc, HY1:Jan 69:481:6323, of "Water Distribution Systems Analysis", HY1:Jan 68:219:5758

McCormick, Michael E.
Planing Characteristics of Fast-Water Buoys, with David Folsom, WW4:Nov 73:485:10179
TR:139:544
See John S. Fisher, WAVES:Sept 74:799

McCormick, Michael M.
Dsc, ST12:Dec 72:2814:9395, of "Suggested Design Guides for Beams with Web Holes", ST11:Nov 71:2707:8536

McCormmach, Albert L.
Dworshak Dam Spillway and Outlets Hydraulics Design, HY4:July 68:1051:6045
Dsc: K. N. Shivashankara Rao, HY3:May 69:1084:6524
Clo: HY1:Jan 70:260:6988
TR:135:943

McCorquodale, John A.
Scale Effects in Swirling Flow, HY1:Jan 68:285:5767
Dsc: Marco Pica, HY1:Jan 69:487:6323
TR:135:547
Supercritical Flow Over Sills, with M. K. Giratalla, HY4:Apr 72:667:8846
Errata: HY2:Feb 73:381:9523
TR:138:239
Variational Approach to Non-Darcy Flow, HY11:Nov 70:2265:7694
Errata: HY10:Oct 71:1763:8407
TR:136:1292
Wave Energy Dissipation in Rockfill, CE13:72:III-1885
See Mohammed Sameh Nasser, WW4:Nov 74:279:10928

McCracken, Winfield A.
Dsc, CE:Apr 72:65, on Estimating Beam Size, CE:Dec 71:67

McCreedy, C. T.
See Norman L. Scott, CE:Mar 73:72

McCuen, Richard H.
Dsc, HY2:Feb 72:404:8681, of "Fitting Methods for Conceptual Catchment Models", HY9:Sept 71:1331:8370

McCulloch, J. A.W.
An Approach to an Off-Shore Wave Climatology, CE13:72:I-145

McCullough, B. Frank
Air Force Pavement Design System Concepts, with Morris W. Pearson, TE4:Nov 74:921:10929
See William Ronald Hudson, TE3:Aug 69:505:6740
See Bernard A. Vallerga, TE4:Nov 69:639:6895
See William Ronald Hudson, EC5:70:95
See William Ronald Hudson, ST1:Jan 71:81:7852
See Harvey J. Treybig, TE4:Nov 71:681:8543

McCullough, Charles A.
Control of Water Pollution During Dam Construction, with Robert R. Nicklen, SA1:Feb 71:81:7927
TR:137:439
Dsc, IR3:Sept 69:444:6753, of "Competition for Recreation Water in California", IR3:Sept 68:295:6109

McCutchen, Wilmot R.
Passenger Design Standards for Bay Area Rapid Transit Stations, MTI:May 72:197

McDaniel, Thomas N.
See Richard B. Catanach, TN: SM6:June 71:959:8162
See Richard B. Catanach, PES:72:I-867

McDargh, Harry John, Jr.
Memoir of, TR:137:1066

McDermid, Ramsay M.
See M. Gamal Mostafa, HY10:Oct 71:1777:8407

McDermott, Daniel J.
See Richard F. Harig, EC5:70:515
See Richard F. Harig, ST1:Jan 71:315:7843

McDermott, James H.
Drinking Water: Problems for the 70's, CE:Sept 73:100
TR:139:425
Federal Drinking Water Standards - Past, Present, and Future, EE4:Aug 73:469:9924
Dsc: Bruce E. Nagler, EE3:June 74:776:10564; Thiruvenkatachari Viraraghavan, EE3:June 74:777:10564
TR:139:247

McDermott, John F.
Local Plastic Buckling of A514 Steel Members, ST9:Sept 69:1837:6761
Dsc: Yuhshi Fukumoto, ST5:May 70:999:7250; Ganpat S. Pandit, ST6:June 70:1241:7314
Clo: ST12:Dec 70:2660:7714
TR:136:204
Plastic Bending of A514 Steel Beams, ST9:Sept 69:1851:6762
Dsc: Ganpat S. Pandit, ST6:June 70:1212:7314
Clo: ST12:Dec 70:2661:7714
TR:136:212
Single-Layer Corrugated-Steel-Sheet Hypars, ST6:June 68:1279:5977
Dsc: Jehangir F. Mirza, ST3:Mar 69:493:6430
Clo: ST11:Nov 69:2518:6867
TR:135:633

McDermott, Joseph P.
Chicago Experience, BP73:Dec 73:172

McDonald, C. C.
See O. J. Loeltz, IR1:Mar 69:65:6457

McDonald, Claudie K.
See James H. Woodward, TN: ST8:Aug 73:1797:9911

McDonald, Donald
See Karl-Robert Leimbach, ST2:Feb 70:267:7082

McDonald, Gerald C.
Dsc, with Nicholas L. Clesceri, SA1:Jan 72:459:8800, of "Estimating Eutrophic Potential of Pollutants", SA4:Aug 71:453:8333

McDonald, Harris R.
See H. Boyd Phillips, IR1:Mar 69:27:6435

McDonald, James R.
Tornado Generated Missiles, with Joseph E. Minor and Kishor C. Mehta, SDNPF:Dec 73:543
See Joseph E. Minor, ST11:Nov 72:2455:9324
See Joseph E. Minor, STF:73:49
See Ernst W. Kiesling, ST6:June 74:1314:10569

McDonald, Jerry L.
Design of a Two-Way Post-Tensioned Waffle Slab, CE:May 73:64
TR:139:213

McDonald, Richard J.
Economics of Water Resources Planning, by L. Douglas James and Robert L. Lee (Book Review), CE:June 71:32

McDonald, Vincent J.
See Roy E. Olson, TN: SM1:Jan 71:283:7787

McDonnell, Archie J.
Variable Respiration in Aquatic Plant Communities, with Dennis W. Weeter, SA2:Apr 72:325:8852
TR:138:348

McDonough, James F.
See Boyd C. Ringo, ST5:May 73:955:9693

McDougall, David J.
See Gabrielle Douglas, RM14:73:121

McDowell, Donald M.
Mathematical Model of River Hooghly, with David Prandle, WW2:May 72:225:8866
Dsc: K. K. Bandyopadhyay, WW2:May 73:281:9694; Arunendu Sen and Anadi Chatterjee, WW2:May 73:283:9694
Clo: WW4:Nov 73:497:10114
TR:139:15

McElroy, Joseph A.
Preliminary Design and Construction Concepts for Trumbull Lake Dam, ECCD:72:171

McElvaney, James
Fatigue Damage of Asphalt under Compound-Loading, with Peter S. Pell, TE3:Aug 74:701:10730

McEntyre, John G.
Dsc, SU2:Nov 71:338:8487, of "Coordinates Versus Confusion", SU2:Sept 70:191:7528
See Kenneth S. Curtis, CEE:Feb 74:1-134

McEwen, Robert B.
Applications of Extraterrestrial Surveying and Mapping, with David A. Tyler, SU2:Nov 72:201:9383
TR:138:604

McFall, Robert L.
Sanitary Sewer Bedding Scored as Underdrain Conduit, CE:May 72:51
TR:138:240
Dsc, HY1:Jan 69:506:6323, of "Surface Water Resources Planning in Hudson Basin", HY2:Mar 68:375:5841
Dsc, HY2:Mar 69:728:6433, of "Feasibility of Water Export", HY4:July 68:873:6024
Dsc, HY2:Mar 69:767:6433, of "Synthesizing Daily Discharge From Rainfall Records", HY5:Sept 68:1283:6119
Dsc, HY2:Mar 69:773:6433, of "Optimum Investment in Structural Flood Control", HY6:Nov 68:1507:6238
Dsc, UP1:Apr 69:105:6487, of "Water Resources as an Element of Urban Planning", UP1:Aug 68:1:6056
Dsc, IR2:June 69:355:6581, of " Entry Velocity Control Limits Drain Sedimentation", IR4:Dec 68:455:6300
Dsc, HY6:Nov 69:2190:6866, of "River Metamorphosis", HY1:Jan 69:255:6352
Dsc, HY6:Nov 69:2205:6866, of "Systemic Variation Pattern of Annual River Flows", HY3:May 69:787:6531
Dsc, IR4:Dec 69:638:6930, of "Salt Penetration Technique for Seepage Measurement", IR4:Dec 68:481:6304
Dsc, IR4:Dec 69:642:6930, of "Unique Role of Water in a Developing Economy", IR1:Mar 69:79:6439
Dsc, IR4:Dec 69:649:6930, of "Design of Cloud Seeding Program", IR2:June 69:275:6600
Dsc, CE:Jan 70:73, on A Black Civil Engineer Looks at His Profession, CE:Sept 69:93
Dsc, HY1:Jan 70:303:6988, of "Principles and Procedures in Flood Plain Management", HY4:July 69:1321:6696
Dsc, UP1:Mar 70:102:7119, of "Use of Air Space Over Freeway Systems", UP1:Apr 69:61:6519
Dsc, TE2:May 70:245:7251, of "Use of Air Rights over Urban Expressways", TE2:May 69:357:6550
Dsc, HY6:June 70:1367:7310, of "Computers in Flood Control Planning", HY6:Nov 69:1859:6886
Dsc, HY9:Sept 70:1909:7497, of "Real-Time Computer Control of Urban Runoff", HY1:Jan 70:153:7028
Dsc, IR3:Sept 70:375:7498, of "Future of Ground Water in African Sahara Desert", IR4:Dec 69:563:6986
Dsc, PP1:Sept 70:151:7549, of "Civil Engineering Management in Private Practice", PP1:July 69:17:6661
Dsc, HY10:Oct 70:2158:7568, of "Seepage Study Using Electrical Analog", HY2:Feb 70:411:7064
Dsc, UP2:Oct 70:168:7571, of "Urban Planning and Development of River Cities", UP1:Mar 70:59:7144
Dsc, HY11:Nov 70:2398:7641, of "Digital Model of Alluvial Aquifer", WW3:May 70:1115:7264
Dsc, HY2:Feb 71:381:7863, of "State Flood-Plain Management Activities", HY10:Oct 70:2041:7589
Dsc, IR1:Mar 71:218:7941, of "Use of Runoff Forecasting in Reservoir Operations", IR3:Sept 70:299:7541
Dsc, with Victor L. Hauser and Lawrence P. Kolb, CE:Apr 71:41, on Population and People, CE:Dec 70:27
Dsc, HY4:Apr 71:639:8012, of "Optimal Policy for Reservoir Operation", HY11:Nov 70:2297:7673
Dsc, UP1:Apr 71:123:8016, of "Water Resources Planning in Appalachia", UP2:Oct 70:123:7599
Dsc, TE2:May 71:387:8082, of "The Comprehensive Plan in Transportation Planning", TE3:July 70:421:7493
Dsc, SA3:June 71:389:8157, of "Water and Health-Are We Concerned Enough?", SA5:Oct 70:1147:7595
Dsc, SA4:Aug 71:537:8269, of "Environmental Protection-TVA Experience", SA6:Dec 70:1321:7761
Dsc, HY9:Sept 71:1567:8345, of "Flood Regulation by Columbia Treaty Projects", HY1:Jan 71:143:7798
Dsc, IR3:Sept 71:538:8346, of "Management Structure for Irrigation", IR4:Dec 70:475:7722
Dsc, UP2:Dec 71:246:8558, of "Multiservice Transport Systems for Urban Mobility", UP1:Apr 71:31:8025
Dsc, HY4:Apr 72:728:8799, of "Fluid-Dynamic Consideration of Bottom Materials", HY9:Sept 71:1317:8374
Dsc, IR2:June 72:333:8926, of "Tunnel Vision or Ecological View", IR3:Sept 71:397:8368
Dsc, HY9:Sept 72:1727:9156, of "New Approach to Hydrologic Data Acquisition", HY12:Dec 71:1965:8578
Dsc, IR1:Mar 73:115:9581, of "General Statement of Principles to be Included in State Water Rights Laws", IR2:June 72:317:8996
Dsc, UP1:Mar 73:122:9584, of "Public Participation in Urban Water Planning", UP2:Dec 71:179:8585
Dsc, IR2:June 73:199:9761, of "Prefabricated Filter-Fin for Subsurface Drains", IR4:Dec 72:543:9422
Dsc, EI3:July 74:257:10633, of "20th Century Renaissance", PP3:July 73:373:9886

McFalls, Richard
Dsc, CE:June 70:44, on Civil Engineering Today: A Profession in Crisis-Part II, CE:Feb 70:51

McFarland, David E.
See John T. Easley, ST7:July 69:1497:6683

McFarland, Russell K.
Welcoming Statement — Subsurface Exploration for Heavy Construction, EFSE:Aug 74:2

McGarry, Frederick J.
See Surendra P. Shah, EM6:Dec 71:1663:8597
See Antoine E. Naaman, EM2:Apr 74:397:10491

McGauhey, Percy H.
Clean Water -- An Environmental Challenge, SA2: Apr 72:375:8812
  Dsc: Thiruvenkatachari Viraraghavan, EE1:Feb 73:94:9521
  Clo: EE4:Aug 73:553:9893
  TR:139:164
Land Use as a Factor in Coastal Water Quality, CE13:72:III-2091
Planning for Clean Water in Terms of the Ecology and Social Environment, CWFE:Mar 71:29
See Gedalia Shelef, SA1:Feb 70:91:7105

McGavock, John H.
Burns Harbor-New Lake Port in Indiana, CE:Mar 70: 36
Port Construction At Burns Waterway Harbor, with Norman R. Loesing and Elvis R. Dye, CO1:Mar 71:17:7990
  TR:137:255

McGhee, Terence J.
Laboratory Studies on Feedlot Runoff, with Lyle R. Christensen and William F. Bonneau, EE6:Dec 73: 883:10205
  TR:139:506

McGill, David J.
Axisymmetric Stresses and Displacements in Thick-Walled Elastic Torus, with Ira H. Rapp, III, TN: EM3:June 73:629:9765
Column Instability Under Weight and Follower Loads, EM3:June 71:629:8196
  Dsc: Raymond H. Plaut and Koncay Huseyir, EM1:Feb 72:278:8680
  Clo: EM5:Oct 72:1305:9221
  TR:137:695

McGill, H. N.
Effects of Surface Drainage on Stream Flow, with Allyn C. Bennett, Wendell B. Moody and Gene C. Vittetoe, IR73:Aug 73:501

McGinnis, David, Jr.
Dsc, with William H. Sammons, HY5:May 70:1201: 7248, of "Daily Streamflow Simulation", HY4:July 69:1163:6665

McGlenn, John
Finite Element Analysis of Plywood Plates, with Billy J. Hartz, ST2:Feb 68:551:5821
  TR:135:424

McGrath, Dorn C.
Aircraft Noise: Fugitive Factor in Land Use Planning, UP1:Apr 69:73:6520
  Errata: UP1:Mar 70:103:7119
  TR:135:160

McGrath, William K.
Dsc, ST12:Dec 72:2816:9395, of "Main Cables of Newport Suspension Bridge", ST12:Dec 71:2825: 8606
See John B. Scalzi, ST12:Dec 71:2837:8604

McGuinness, J. L.
Maximum Potential Evapotranspiration Frequency - East Central U.S., with Leslie H. Parmele, IR2:June 72:207:8943
  TR:138:267

Mc Guire, J. H.
See M. Galbreath, TB:73:Ib-8-721

McGuire, Peter J.
See Campbell Massey, EM3:June 71:673:8172

McGuire, Robin K.
Live Load Effects in Office Buildings, with C. Allin Cornell, ST7:July 74:1351:10660
Dsc, ST9:Sept 74:1972:10772, of "Some Aspects of Office Design Live Loads", ST11:Nov 73:2245: 10159

McGuire, William
See Ben Kato, ST5:May 73:865:9725

McGurk, Florence F.
See Frank W. Sollo, NSCD:71:245

McHarg, Ian
Best Shore Protection: Nature's Own Dunes, CE: Sept 72:66
  Dsc: George C. Govatos, CE:Mar 73:75
  TR:138:400
Ecological Values and Regional Planning, CE:Aug 70:40
  Dsc: Hugo Vervuurt, CE:Dec 70:54; Frank B. Burggraf, Jr., CE:Dec 70:54; John Volkert, CE: Dec 70:54; R. P. Spiro, CE:Dec 70:54; Ralph W. Kiefer, CE:Dec 70:58
  TR:136:605

McHenry, Douglas
McHenry, Founder Of RCRC, Dies, CE:Oct 73:98
Memoir of, TR:139:568
'73 Boase Award To Douglas McHenry, CE:Feb 73: 71

McHenry, J. Roger
Dsc, HY8:Aug 71:1253:8267, of "Chapter III. Sediment Measurement Techniques: Reservoir Deposits", HY12:Dec 70:2417:7781
See Carl E. Murphree, HY2:Mar 68:515:5868

McJunkin, Frederick E.
Dsc, Special Issue on Urban Development, CE:Jan 70:73
Dsc, CE:Jan 70:73, on A Black Civil Engineer Looks at His Profession, CE:Sept 69:93

McKay, Alexander R.
See Charles E. Behlke, CEO-II:70:361

McKay, Doug
Vancouver Uses Innovative Ways for Placing Large Submarine Pipelines, with Don Gillis and Robin Durward, CE:Oct 74:74

McKay, Hugh G., III
Partially Precast-Prestressed Intake Structure, with Paul C. Gurley, Jr., PO1:May 73:1:9706
  TR:139:185

McKay, M. W.
See R. P. Swift, RM13:72:797

McKee, Jack E.
See Albert B. Pincince, SA6:Dec 68:1093:6295

McKee, Paul W.
See Andrew Heubeck, Jr., SA2:Apr 68:283:5900

McKeever, J. Ross
Shopping Centers Development Team, CE:Sept 69:89
  TR:135:888

McKeever, Shelton R.
See Walter B. Benton, PO1:Jan 70:109:7029

McKelvey, V. E.
Dsc, HY4:Apr 71:593:8012, of "Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY5: May 70:1157:7269

McKenzie, Angus J.
Staging of Improvements to Air Transport Terminals, with Jack W.E. Huggett and Kenneth W. Ogden, TE4:Nov 74:855:10920

McKeown, James J.
See Arthur H. Benedict, EE3:June 74:529:10572
See Arthur H. Benedict, EE4:Aug 74:869:10701

McKetta, John J.
The Critical U.S. Energy Situation, PP2:Apr 73:171:9685
  Dsc: Asit K. Biswas, PP4:Oct 73:546:10040
  Clo: EI3:July 74:253:10633
  TR:139:306

McKihrick, Sterling
Dsc, CE:Mar 71:52, on Venice is Sinking into the Sea, CE:Mar 71:67

McKinney, Ross E.
Dsc, EE3:June 74:789:10564, of "Design and Operation Model of Activated Sludge", EE6:Dec 73:773:10220
See Carl E. Burkhead, SA2:Apr 69:253:6505
See John L. Carter, EE2:Apr 73:135:9679

McKinney, William M.
See Wei-Wen Yu, ST11:Nov 74:2191:10907

McKinnon, Vincent
See Alan L. Yettram, TN: EM5:Oct 74:1067:10856
See Alan L. Yettram, TN: EM5:Oct 74:1073:10856

McKittrick, David P.
See Philip A. Wild, URC:72:287

McKyes, Edward
See Raymond N. Yong, SM1:Jan 71:159:7790
See Robert M. Quigley, TN: SM5:May 73:417:9703

Mc Lamore, V. R.
Ambient Vibration of Two Suspension Bridges, with Gary C. Hart and Ian R. Stubbs, ST10:Oct 71:2567:8454
  Dsc: David J. Fader, ST2:Feb 72:543:8684
  Clo: ST10:Oct 72:2317:9227
  TR:137:832

McLaren, James R.
Factors Affecting Ammonia Removal by Clinoptilolite, with Grahame J. Farquhar, EE4:Aug 73:429:9901
  TR:139:227

McLaren, Martin W.
See J. George Thon, TE1:Feb 69:97:6411

McLaughlin, John F.
Concrete Today and Tomorrow, with W. L. Dolch, Sidney Diamond and Charles F. Scholar, CE:Aug 69:42
  TR:135:593

McLaughlin, Philip V., Jr.
Limit Analysis Of Plates Under Concentrated Load, TN: EM4:Aug 70:509:7444

McLaughlin, William A.
Map Control by Electronic Surveys, SU1:Apr 70:81:7226
  TR:136:1146

McLean, Elizabeth J.
Goals and Objectives, with Martin E. Goldsmith, MTI:May 72:267

McLean, Francis G.
Seepage Characteristics of Imperfect Cutoffs, with Raymond J. Krizek, TN: SM1:Jan 71:305:7787
See Raymond J. Krizek, TN: GT1:Jan 74:89:10254

McLellon, Waldron Murrill
The "Professional" Faculty, with Robert D. Kersten, CEE:Feb 74:1-800

McMahon, Thomas A.
See Gary P. Codner, HY9:Sept 73:1421:10002
See Russell G. Mein, HY11:Nov 74:1507:10933

McManus, Paul F.
Horizontally Curved Girders-State of the Art, with Ghulam A. Nasir and Charles G. Culver, ST5:May 69:853:6546
  Dsc: David B. Beal and Robert J. Kissane, ST11:Nov 69:2541:6867; Chen Pang Tan and Sidney Shore, ST12:Dec 69:2997:6932; Konstantin Ketcheck, ST12:Dec 69:2999:6932; William N. Poellot, Jr., ST1:Jan 70:157:6990; Ganpat S. Pandit, ST2:Feb 70:433:7047; Giulio Ceradini and Carlo Gavarini, ST2:Feb 70:435:7047; Pietro Gravina, ST2:Feb 70:436:7047; Anatol A. Eremin, ST2:Feb 70:436:7047
  Clo: ST8:Aug 70:1807:7442
  TR:135:989
Nonuniform Torsion of Composite Beams, with Charles G. Culver, ST6:June 69:1233:6623
  Dsc: R. Konyalian and Theodore V. Galambos, ST3:Mar 70:737:7116
  Clo: ST9:Sept 70:1966:7567
  TR:136:10

McMaster, Eugene R.
See James W. McPhillips, PP2:Apr 72:181:8797

McMichael, Francis Clay
Civil Engineering and Public Affairs: New Direction in Undergraduate Education at Carnegie-Mellon University, CEE:Feb 74:1-689
Dsc, with Frank C. Vigani, SA2:Apr 72:444:8800, of "Characterization of Time-Varying Organic Loads", SA3:June 71:257:8167

McMinn, Jack H.
Salary Guidelines: Enlightened Implementation or Unionization?, PP4:Oct 73:429:10090
  Dsc: Richard Schindler, EI3:July 74:260:10633
  TR:139:515
See Edwin A. Wells, CWFE:Mar 71:147

McMordie, Robert C.
See Harold K. Pratt, SM10:Oct 72:1053:9290

McMullan, John G.
See Stephen C. Chen, TE1:Feb 74:207:10329
See Stephen C. Chen, CE:May 74:58

McMullen, Arthur E.
Concrete Beams in Bending, Torsion and Shear, with Joseph Warwaruk, ST5:May 70:885:7270
  Dsc: Lennart Elfgren, Inge Karlsson and Anders Losberg, ST2:Feb 71:729:7867; Ganpat S. Pandit, ST2:Feb 71:732:7867; K. V. Swaminathan and N. Raghavendra, ST3:Mar 71:972:7944; B. K. Mital, ST3:Mar 71:976:7944; Umakanta Behera, ST3:Mar 71:977:7944
  Clo: ST10:Oct 71:2601:8411
  TR:136:1255
See H. Roger Woodhead, ST5:May 74:881:10545
See Ian J. Jordaan, ST11:Nov 74:2255:10951

McNair, Arthur J.
The Survey Engineer - A Rare Species, SU1:Apr 70:37:7197
  TR:136:1135

McNair, E. Clark
Characteristics of Waves Broken by a Longshore Bar, with Robert M. Sorensen, 12CEC:71:415

Mc Namara, Robert J.
See Lee C. Lim, TB:73:II-16-499
See Lee C. Lim, TB:73:II-16-598

McNamee, Bernard M.
Inelastic Multistory Frame Buckling, with Le-Wu Lu, ST7:July 72:1613:9062
TR:138:368

McNeice, Gregory M.
See Jan C. Jofriet, ST3:Mar 71:785:7963
See Gilbert A. Hartley, ST1:Jan 74:51:10269

McNorgan, John D.
Gas Line Response to Earthquakes, TE4:Nov 73:821:10149
TR:139:509

McNown, John S.
Fluid Mechanics and Lock Design, WW3:Aug 67:9:5365
Dsc: Mack H. Gray, III, WW2:May 68:244:5924
TR:135:448
Dsc, WW2:May 70:553:7252, of "On Acceleration of Barge Tows", WW2:May 69:121:6545
Dsc, WW4:Nov 70:861:7645, of "Surge Problems in Canals with High-Lift Locks", WW2:Nov 69:467:6898
Dsc, WW2:May 72:287:8863, of "Water Depths Required for Ship Navigation", WW3:Aug 71:455:8309

McPherson, Harold J.
See William F. Rannie, HY4:Apr 71:594:8012

McPherson, Murray B.
Need for Metropolitan Water Balance Inventories, HY10:Oct 73:1837:10078
Dsc: Michael B. Sonnen, HY8:Aug 74:1187:10696; Neil S. Grigg, HY9:Sept 74:1289:10770
TR:139:424

McPhillips, James W.
Action in Public Affairs -- A Way of Life, with Brian R. Hogan, Eugene R. McMaster and David A. Novick, PP2:Apr 72:181:8797
Dsc: Otto C. von Seggern, PP4:Oct 72:735:9224; Harold G. Lorsch, PP1:Jan 73:125:9460
Clo: PP3:July 73:406:9824
TR:139:20
Guidelines for Engaging in Public Affairs Activities, by the Committee on Public Affairs of the Member Activities Division, PP1:Oct 71:167:8480
Dsc: Sergei N. Grimm, PP4:Oct 72:726:9224
TR:138:68

McQuivey, Raul S.
Measurement of Velocity-Concentration Covariance, with Thomas N. Keefer, HY9:Sept 72:1625:9184
TR:138:459
Simple Method for Predicting Dispersion in Streams, with Thomas N. Keefer, EE4:Aug 74:997:10708
Some Turbulence Measurements in Open-Channel Flow, with Everett V. Richardson, HY1:Jan 69:209:6349
Dsc: Mahmoud Faisal Rifai, HY6:Nov 69:2179:6866; David R. Townsend, HY6:Nov 69:2182:6866; Emmanuel Partheniades and Paul H. Blinco, HY1:Jan 70:272:6988; Maddineni V. Rao, HY1:Jan 70:275:6988
Clo: HY11:Nov 70:2361:7641
TR:136:33
Dsc, with Thomas N. Keefer, HY10:Oct 74:1502:10839, of "Diffusion and Dispersion in Open Channel Flow", HY1:Jan 74:159:10298
See Everett V. Richardson, HY2:Mar 68:411:5855
See Mostafa A. Shirazi, HY7:July 74:919:10661
See Thomas N. Keefer, HY7:July 74:1031:10668

McSparran, John E.
Design Hydrographs for Pennsylvania Watersheds, HY4:July 68:937:6036
Dsc: Sie Ling Chiang, HY2:Mar 69:734:6433; Arie Ben-Zvi, HY2:Mar 69:735:6433; A. Y. Abdel-Razaq, HY2:Mar 69:737:6433; Brian M. Reich, HY3:May 69:1065:6524
Clo: HY1:Jan 70:258:6988
TR:135:687

McVickar, Dan B.
See Yun-Sheng Yu, EM1:Feb 71:1:7887

McWhinnie, Robert C.
Basic Needs of Urban Water Management on the Firing Line, UWRM:71:8

McWilliams, P. C.
See E. H. Skinner, RM14:73:754

Medbery, Hiram C.
Dsc, PL1:Oct 68:187:6133, of "Homestake Delivery System Pipeline", PL2:July 67:71:5353

Medding, Walter S.
See Paul H. King, TN: SA4:Aug 70:1031:7445

Meddock, Kenneth R.
See Dallas I. Downs, PO2:Dec 74:191:11008

Medearis, Kenneth
Stabilization of Ground at Eisenhower Tunnel Access, with Omar S. Stemple and Jack E. Gay, CE:July 73:82
TR:139:315

Medige, John
See Herbert Reisman, EM5:Oct 68:1167:6183

Medland, Ian C.
Flexural Rigidity of Concrete Column Sectione, with Donald A. Taylor, ST2:Feb 71:573:7933
Dsc: Andrie C.T. Chen, Ti Huang and Wai F. Chen, ST11:Nov 71:2763:8485; Ganpat S. Pandit, ST11:Nov 71:2766:8485
Clo: ST5:May 72:1188:8861
TR:137:514
Stiffness Functions for Elastically Supported Members, TN: ST2:Feb 73:295:9545
See F. David Edmonds, ST3:Mar 72:695:8771

Meek, Charles C.
See Barclay G. Jones, TN: EM1:Feb 73:233:9528

Meek, Jethro W.
Dynamic Analysis by Extra Fast Fourier Transform, with Anestis S. Veletsos, EM2:Apr 72:367:8824
Errata: EM6:Dec 72:1608:9390
TR:138:218

Meek, Roy L.
See Duane W. Hill, UWRM:71:43

Meeks, Nathan D.
See Thomas C. Ferrara, PP4:Oct 73:543:10040

Megahan, Walter F.
Role of Bedrock in Watershed Management, IR73:Aug 73:449
Volume Weight of Reservoir Sediment in Forested Areas, HY8:Aug 72:1335:9129
TR:138:435

Megarefs, George J.
Minimal Design of Sandwich Axisymmetric Plates II, EM1:Feb 68:177:5799
TR:135:822

Megerian, Edmond
Dsc, WW3:Aug 70:731:7443, of "Lake Michigan-Huron Stage-Frequency and Trend", WW3:Aug 69:261:6716

Megget, Leslie M.
Dsc, ST1:Jan 72:383:8623, of "Seismic Resistance of Concrete Frames with Grade 60 Reinforcement", ST6:June 71:1685:8180

Mehlburger, Max A.
Memoir of, TR:138:635

Mehrain, Mehrdad
Dsc, ST2:Feb 69:277:6373, of "Analysis of Skewed Composite Girder Bridges", ST4:Apr 68:919:5890

Mehrotra, Bharat L.
Analysis of Three Dimensional Thin-Walled Structures, with Aftab A. Mufti and Richard G. Redwood, ST12:Dec 69:2863:6968
  Dsc: Olgierd C. Zienkiewicz and Chandrakant J. Parekh, ST8:Aug 70:1838:7442; Peter C. Kohnke, ST9:Sept 70:1977:7567
  Clo: ST4:Apr 71:1352:8015
  TR:136:465
Shear Lag Analysis of Rectangular Full-Width Tube Junctions, with Ashok K. Govil, ST1:Jan 72:287:8665
  TR:138:128
Stiffening in Tubular Junctions - Some New Concepts, TN: ST9:Sept 71:2453:8374
Dsc, with Richard G. Redwood, EM2:Apr 69:493:6484, of "Analysis of Plate Bending by Triangular Element", EM5:Oct 68:1089:6176
Dsc, with Aftab A. Mufti, EM4:Aug 69:1021:6705, of "Finite-Element Analysis of Thin Shells", EM6:Dec 68:1273:6259
Dsc, ST3:Mar 71:998:7944, of "Shear Lag in Stiffened Box Girders", ST7:July 70:1403:7409
Dsc, EM3:June 71:1026:8154, of " Finite Element Bending Analysis of Reissner Plates", EM6:Dec 70:967:7760
Dsc, ST1:Jan 74:271:10253, of "Strength of Square-Tube Connections Under Combined Loads", ST12:Dec 72:2753:9425
See Aftab A. Mufti, EM2:Apr 69:491:6484

Mehrotra, Subhash C.
Boundary Contractions as Controls in Two-Layer Flows, HY11:Nov 73:2003:10160
  TR:139:449
Circular Jumps, HY8:Aug 74:1133:10758
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, with R. E. Kelly, ISSF:Aug 72:603

Mehta, Ashish J.
Dsc, WW4:Nov 74:397:10903, of "Characteristics and Behavior of Pacific Coast Tidal Inlets", WW3:Aug 73:325:9927
See Omar H. Shemdin, WW1:Feb 72:97:8686

Mehta, Champa L.
See Miloslav Tochacek, ST6:June 72:1273:8973

Mehta, Dilip S.
Oxygen Theory in Biological Treatment Plant Design, with Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938
  Dsc: George J. Kehrberger, EE3:June 73:381:9758; James A. Mueller, EE3:June 73:383:9758; Stacy L. Daniels and Steven E. Richardson, EE3:June 74:755:10564
  TR:139:255

Mehta, Dolat S.
Dsc, PO2:Mar 71:587:7942, of "Post-Tensioned Concrete Nuclear Structures", PO3:June 70:400:7355

Mehta, Kishor C.
See Joseph E. Minor, ST11:Nov 72:2455:9324
See Joseph E. Minor, STF:73:49
See James R. McDonald, SDNPF:Dec 73:543
See Ernst W. Kiesling, ST6:June 74:1314:10569

Mehta, M. K.
Torsional Properties of Built-up I-shaped Sections, with James J. Powers, CE:Mar 74:74

Mehta, Puran R.
See James C. Poffenberger, ST11:Nov 70:2429:7687

Mei, Chiang C.
Quadratic Loss and Scattering of Long Waves, with Philip L-F. Liu and Arthur T. Ippen, WW3:Aug 74:217:10754
Steady Free Surface Flow Over Wavy Bed, EM6:Dec 69:1393:6967
  TR:136:1208
Waves in a Harbor with Protruding Breakwaters, with Ricardo V. Petroni, WW2:May 73:209:9700
  Dsc: Yong Kwun Chung, WW2:May 74:160:10509
  TR:139:263
Weak Reflection of Water Waves by Bottom Obstacles, EM1:Feb 69:183:6401
  TR:136:1095
See Trevor G. Carter, WW2:May 73:165:9699

Meiappan, Palaniappan
Dsc, EM6:Dec 74:1262:10972, of "Anisotropic Beams by Moment-Differential Method", EM6:Dec 73:1283:10207

Meidal, Paul
Rock Mechanics Studies--Mica Project, B.C., with R. Kenneth Dodds, URC:72:203

Meidav, Tsvi
Geophysics in Groundwater Exploration, with Jerome S. Nelson, OIDS:72:257

Meier, Louis L., Jr.
ASCE Legislative Involvement, CE:Oct 73:57
Engineer-lawyer to ASCE, CE:Aug 72:70

Meier, Peter M.
Stochastic Population Projection at Design Level, SA6:Dec 72:883:9436
  Dsc: Ashok N. Shahane, EE4:Aug 73:565:9893; David J. Silberman, EE5:Oct 73:752:10035; Thiruvenkatachari Viraraghavan, EE5:Oct 73:753:10035
  Clo: EE2:Apr 74:526:10437
  TR:139:533

Meier, W. L., Jr.
See Dan Salcedo, OIDS:72:81

Meiman, James R.
Long-Chain Alcohol Suppression of Snow Evaporation, with Charles W. Slaughter, HY6:Nov 67:271:5598
  TR:135:428

Mein, Russell G.
Simple Nonlinear Model for Flood Estimation, with Eric M. Laurenson and Thomas A. McMahon, HY11:Nov 74:1507:10933
See David P. Heeps, HY7:July 74:995:10685

Meinheit, Donald F.
Dsc, ST2:Feb 72:522:8684, of "Strength of Load-Bearing Masonry Walls", ST5:May 71:1593:8143
See Peter C. Birkemoe, ST10:Oct 69:2011:6811

Meitzler, Grant
See Kent A. Healy, SM3:May 68:811:5922

Melbourne, W. H.
Wind Tunnel Test Expectations, TB:73:Ib-7-441

Melchers, Robert E.
Optimal Fiber-Reinforced Plate Corners, TN: ST7:July 73:1692:9828
Optimum Design of Reinforced Concrete Tanks, with George I. N. Rozvany, EM6:Dec 70:1093:7739
  Dsc: Sandor Kaliszky, EM4:Aug 71:1299:8266
  Clo: EM2:Apr 72:474:8798
  TR:137:507
Dsc, ST6:June 70:1257:7314, of "Behavior of Simply Supported Slabs", ST12:Dec 69:2703:6945
Dsc, with Peter G. Lowe, EM6:Dec 73:1301:10181, of "Rectangular Grillages of Least Weight", EM6:Dec 72:1337:9404

Melin, John W.
See Karl L. Reichelt, EC5:70:377
See Edward L. Murphree, EC5:70:489
See Richard N. Wright, EC5:70:801
See Karl L. Reichelt, ST1:Jan 71:237:7836
See Edward L. Murphree, ST1:Jan 71:301:7835
See Richard N. Wright, ST1:Jan 71:481:7856

Mellema, Warren J.
See Duane J. Sveum, WW2:May 72:191:8867

Melnick, Joseph L.
See Mark D. Sobsey, EE3:June 73:245:9778

Melnikov, N. P.
Hotel "Intourist" Smolenskaya Square, TB:73:C-P-240
New Trends and Possibilities in Development of Metal Structures, TB:73:C-DM-201
Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, TB:73:II-13-121

Melosh, Robert J.
Efficient Solution of Load-Deflection Equations, with R. M. Bamford, ST4:Apr 69:661:6510
  Dsc: John S. Campbell, ST12:Dec 69:2993:6932; John R. Roy, ST12:Dec 69:2994:6932; Vipperla B. Venkayya, ST1:Jan 70:148:6990; Bruce M. Irons, ST1:Jan 70:152:6990; Semih S. Tezcan and George Kostro, ST2:Feb 70:421:7047; Carlos A. Felippa and James L. Tocher, ST2:Feb 70:422:7047; Stanley Klein, ST5:May 70:983:7250
  Clo: ST2:Feb 71:713:7867
  TR:136:700
Multiple Configuration Analysis of Structures, with Rein Luik, ST11:Nov 68:2581:6220
  Dsc: Steven J. Fenves and Rebi Ertas, ST7:July 69:1586:6644
  Clo: ST6:June 70:1239:7314
  TR:136:663
See Roy Levy, ST11:Nov 73:2269:10178

Melott, Dale B.
Pennsylvania Tries Mastic Asphalt Pavement, CE:June 73:56
  TR:139:233

Melvill, Andrew L.
See Desmond L. Webb, SM3:Mar 71:587:7943

Melville, Phillip L.
Status of Airport Research and Development Program, ASC73:Mar 73:19

Melzer, Klaus-Jurgen
Standard Penetration Test and Relative Density, 4PCSM:71:II37
Dsc, 4PCSM:72:III80, of "The Standard Penetration Test", 4PCSM:71:I1

Mendenhall, Irvan F.
Mendenhall Named to Presidential Board, CE:Jan 72:86
Public Relations and Public Service Papers in the Los Angeles Section, CE:June 69:47
  TR:135:441
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Mendes, F. Mello
Laboratory Simulation of Mine Pillar Behavior, with C. D. Da Gama, RM14:73:107

Mendoza, Enrique
See Emilio Rosenblueth, EM6:Dec 71:1625:8584

Menec, Joseph, Jr.
See Emile Langlois, ST12:Dec 69:2723:6947

Mennem, Gary M.
See Milton L. David, OIDS:72:443

Mercado, A.
See C. J. Braudo, HY9:Sept 70:1795:7519

Mercer, Albert G.
Analytically Determined Bed-form Shape, TN: EM1:Feb 71:175:7858
Irrotational Flow with Irregular Boundary Shapes, HY8:Aug 73:1209:9937
  TR:139:342
Ripple Profiles Modeled Mathematically, with M. Ikramul Haque, HY3:Mar 73:441:9618
  Dsc: Jean Larras, HY10:Oct 73:1895:10037
  Clo: HY5:May 74:696:10505
  TR:139:237

Mergentime, Charles E.
Underpinning Massive Structures, CE:Mar 72:40
  TR:138:123

Merkel, Wolfgang
Dsc, SA5:Oct 71:795:8409, of "Physical Behavior of Flocculent Suspensions in Upflow", SA2:Apr 71:209:8054

Merkens, Paul W.
Dsc, CE:Mar 73:89, on Specialty Registration for Engineers, CE:Dec 72:32

Merkle, Douglas H.
Dsc, SM1:Jan 69:383:6324, of "Stress Path Method", ST6:Nov 67:309:5613
See John G. Merkle, SM5:Sept 69:1276:6754

Merkle, John G.
Dsc, HY1:Jan 69:463:6323, of "Experimental Examination of the Rational Method", HY6:Nov 67:353:5607
Dsc, with Douglas H. Merkle, SM5:Sept 69:1276:6754, of "Elastic Behavior of Cohesionless Soil", SM6:Nov 68:1215:6216

Mermel, T. W.
Joint Use of Rights-of-Way Can Reduce Costs of Services, CE:Mar 69:56
  TR:135:399
World's Highest and Largest Dams, CE:July 70:73
  TR:136:583

Mero, F.
See C. J. Braudo, HY9:Sept 70:1795:7519

Merriam, John L.
Float Valve Provides Variable Flow Rates at Low Pressures, IR73:Aug 73:385
Dsc, IR1:Mar 68:240:6428, of "Irrigating with Cut-Back Furrow Streams", IR1:Mar 68:91:5852
Dsc, IR2:June 73:188:9761, of "Water Deficits - Irrigation Design and Programming", IR2:June 72:215:8955
Dsc, IR3:Sept 74:399:10771, of "Operation and Maintenance of Irrigation and Drainage Systems", IR3:Sept 73:237:10014

Merrifield, John T.
Bidding is Against Client Interest, PP3:July 73:389:9878
  TR:139:353
Ductile-Frame Tie Bars, with Albert P. Jensen, CE:Nov 71:52
  TR:137:694
New ASCE Officers Installed in Kansas City: 1974, CE:Oct 74:92

Merrill, Edward A.
Booby Traps for Young Engineers on Construction, CO2:Nov 71:305:8541
  Dsc: Edward A. Abdun-nur, CO2:Sept 72:365:9155
  Clo: CO1:July 73:209:9822
  TR:139:107
Dsc, CE:Nov 70:39, on Contributions of the Federal-Aid Highway Program, CE:June 70:71

Merritt, Andrew H.
Slope Stability in Tropically Weathered Diorite, RM13:72:625
Underground Excavation: Geologic Problems and Exploration Methods, EFSE:Aug 74:56
See Raymond P. Benson, URC:72:407

Merritt, LaVere B.
Computer-Based Optimal Design of Sewer Systems, with Richard H. Bogan, EE1:Feb 73:35:9578
TR:139:50

Mesri, Gholamreza
Coefficient of Secondary Compression, SM1:Jan 73: 123:9515
Dsc: William E. Kelly, SM8:Aug 73:641:9892; Robert P. Vallee and Orlando B. Andersland, SM8:Aug 73:642:9892; Coefficient of Secondary Compression, Philip Keene, SM11:Nov 73:1026: 10112; Coefficient of Secondary Compression, Karim Habibagahi, SM11:Nov 73:1027:10112
Clo: GT7:July 74:861:10634
TR:139:243
Engineering Properties of a Pennsylvania Shale, with Rocco Gibala, RM13:72:57
Theory of Consolidation for Clays, with Anoushiravan Rokhsar, GT8:Aug 74:889:10740
See Roy E. Olson, SM6:Nov 70:1863:7649

Mester, Gregory E.
Bonded Continuous Turnout, with Robert H. Robey, TN: ST8:Aug 74:1748:10723

Metcalf, Howard L.
Dsc, CE:Nov 72:49, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE: Aug 72:55

Metcalf, T. G.
Viral Pollution of Shellfish in Estuary Waters, with W. C. Stiles, SA4:Aug 68:595:6063
Errata: SA4:Aug 69:774:6706
TR:135:616

Mettam, John D.
Dsc, WW3:Aug 68:378:6053, of "Berth Planning by Evaluation of Congestion and Cost", WW4:Nov 67: 107:5577

Metzger, Ivan
Effects of Temperature on Stream Aeration, SA6:Dec 68:1153:6309
Dsc: Ronald E. Rathbun and James P. Bennett, SA5:Oct 69:985:6802; Veerasamy Kothandaraman and Ralph L. Evans, SA5:Oct 69:988:6802
Clo: SA2:Apr 70:616:7190
TR:135:283
Dsc, SA2:Apr 69:352:6485, of "Atmospheric Oxygenation in a Simulated Stream", SA2:Apr 68: 319:5905

Metzler, Dwight F.
The Challenge of Environmental Protection, PP2:Apr 73:197:9667
TR:139:259
Legal Problems in Water Pollution Control, HY1:Jan 74:221:10260

Meursinge, John H.
Dsc, CE:Apr 73:77, on Superior Pension Plan Helps Attract Employees, CE:Jan 73:58

Meyburg, Arnim H.
Urban Goods Movement Planning Methodology, with Walter J. Diewald and Garrison P. Smith, TE4:Nov 74:791:10914

Meyer, Adolf A.
Dsc, PO1:Mar 69:150:6442, of "Research Needs in Civil Engineering Aspects of Power, Report of the Research Commission, Power Division, ASCE", PO1:May 68:33:5935

Meyer, Alvin H.
Polymer as Surface Treatment for Concrete, ST6: June 74:1205:10615
Sulfuric Acid Attack on Concrete Sewer Pipe, with William B. Ledbetter, SA5:Oct 70:1167:7624
TR:136:1117
Wearability of PC Concrete Pavement Finishes, TE3: Aug 74:719:10736

Meyer, Charles F.
Using Experimental Models to Guide Data Gathering, HY10:Oct 71:1681:8449
TR:137:811
See David K. Todd, HY2:Feb 71:233:7910

Meyer, Christian
Analysis of Curved Folded Plate Structures, with Alexander C. Scordelis, ST10:Oct 71:2459:8434
Dsc: Alexander Hrennikoff, ST8:Aug 72:1877: 9079
Clo: ST3:Mar 73:575:9583
TR:138:20
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, CE:Dec 73:63
Solution of Linear Equations--State-of-the-Art, ST7: July 73:1507:9861
Dsc: Anil K. Kar, ST4:Apr 74:828:10442; Frederic W. Williams, ST8:Aug 74:1724:10697; Th. Lunde Johnsen and John R. Roy, ST8:Aug 74:1726:10697
TR:139:411
See Alexander C. Scordelis, ST8:Aug 72:1878:9079

Meyer, Johannes
See Heinz Stefan, HY2:Feb 70:411:7064

Meyer, John D.
Shakedown of Strain-Hardening Structures, with Kurt H. Gerstle, ST1:Jan 72:95:8641
TR:138:106

Meyer, Kirby T.
See Robert L. Lytton, SM7:July 71:999:8265

Meyer, Walter L.
Civil Engineers Need Construction Education, with Robert I. Carr, CEE:Feb 74:1-545
Professionalism in Construction, PP2:Apr 73:205: 9656
TR:139:220
See Martin L. Moody, CO2:Oct 68:255:6131
See Robert I. Carr, CO3:Sept 74:403:10812

Meyerhof, George G.
Collapse Load of Reinforced Concrete Footings, with Kanakapura S. Subba Rao, ST5:May 74:1001:10531
Stability of Slurry Trench Cuts in Saturated Clay, PES:72:I-1451
Dsc, SM3:May 70:1079:7249, of "Problems in Design and Installation of Offshore Piles", SM6: Nov 69:1491:6913
Dsc, SM5:May 73:414:9692, of "Anchor Behavior in Sand", SM11:Nov 72:1187:9338

Meyers, J. Stuart
See G. Earl Harbeck, Jr., HY7:July 70:1381:7388

Meyers, James F.
Grand Coulee 3rd Powerplant — Units 22, 23 and 24, EPCE:Aug 74:413
See Richard E. Gray, SM4:July 70:1267:7407

Meyers, S.
See David Karmeli, PL1:Oct 68:1:6130

Meyers, V. James
Plastic Sandwich Buckle-Shell Structures, with Dhamo T. Ramani and Mark E. Greenwood, ST11: Nov 72:2381:9323
TR:138:515

Michail, Mofreh G.
See Gerard R. Monforton, TN: EM3:June 72:763: 8931

Michalos, James
Dsc, Academic foreclosure, CE:July 72:74

Hardy Cross and the Rise of Numerical Methods, ST3:Mar 72:691:8762
  Dsc: Frederic T. Mavis, ST8:Aug 72:1888:9079; Linton E. Grinter, ST9:Sept 72:2127:9159
  Clo: ST3:Mar 73:579:9583
  TR:138:153

Micheau, Terry W.
See Louis R. Shaffer, CO1:Mar 71:113:8008

Michel, John F.
Dsc, SU2:Nov 74:173:10900, of "The Boundary of the Sovereign", SU1:Sept 73:15:9979

Michelena, Eduardo David
See Kenneth Edward Steele, WAVES:Sept 74:417

Mick, Gerard E.
Boulder Creek - An Environmental Status Report, CO1:Mar 74:1:10389

Micka, Thomas
Reaeration Experiments with Microorganisms, with Edward R. Holley and Frank W. Sollo, TN: EE6: Dec 73:971:10186

Mickelson, Rome H.
See Dale F. Heermann, IR2:June 74:127:10588

Mickle, L. Jack
See Eugene R. Russell, SM3:May 70:967:7298

Micucci, Carlos A.
Los Nogales Dam - Effectiveness of the Curtain (In Spanish), with Hugo Scolaro, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II309

Middlebrooks, E. Joe
Rational Multivariate Algal Growth Kinetics, with Donald B. Porcella, TN: SA1:Feb 71:135:7859
Wastes from the Preservation of Wood, SA1:Feb 68: 41:5785
  TR:135:1018
See Donald B. Porcella, SA4:Aug 70:911:7460
See James H. Reynolds, EE3:June 74:557:10580

Middleton, Andrew C.
Dsc, with Alonzo W. Lawrence, EE6:Dec 73:960: 10180, of "Optimal Design of Wastewater Treatment Systems by Enumeration", SA6:Dec 72: 833:9403

Middleton, Francis M.
Research and Development Needs for Advanced Waste Treatment Process to Serve Future Needs, with Robert L. Stenburg, CWFE:Mar 71:189
Research Needs for Advanced Waste Treatment, with Robert L. Stenburg, SA3:June 72:515:8956
  Dsc: Ernest W.J. Diaper, EE1:Feb 73:102:9521; Thiruvenkatachari Viraraghavan, EE2:Apr 73: 158:9635
  Clo: EE1:Feb 74:217:10302
  TR:139:269

Miedema, Henry J.
Repair of Seismic Damage to Aboveground Pipelines, with John B. Olson, TE3:Aug 74:733:10756

Mielenz, Richard C.
See David Pirtz, PO1:Jan 70:23:6997

Mierzejewski, Edward
See Richard de Neufville, TE3:Aug 72:663:9141

Mifune, Tsuyoshi
See Masaru Tanaka, SA3:June 72:561:8990

Mighdoll, M. J.
Dsc, CE:Nov 72:67, on How Urgent the Need to Recycle Solid Waste, CE:Sept 72:107

Migliaccio, Ralph R.
See Grant A. Ross, SM4:July 69:1007:6664

Mih, Walter C.
Mean and Turbulent Velocities for Plane Jet, with John A. Hoopes, HY7:July 72:1275:9050
  TR:138:378

Mikesell, Ritchie D.
Dsc, SA5:Oct 71:773:8409, of "Theoretical Analysis of Activated Sludge Dynamics", SA1:Feb 71:1:7879

Mikhail, Michel L.
Buckling of Simply Supported Folded Plates, with Sidney A. Guralnick, EM5:Oct 71:1363:8414
  TR:137:779

Mikhailova, N. A.
See V. N. Anuchin, ISSF:Aug 72:527

Miki, Sansei
Quality Control in Steel Frame Fabrication of Tall Buildings, State-of-Art Report 3, with Hiroshi Ohba and Toshio Kamei, TB:73:Ib-9-817

Mikitka, Robert W.
Introduction to the ASCE Recommended Practice for the Design and Construction of Steel Chimney Liners, with Randy W. Snook, EPCE:Aug 74:41
Dsc, with Joel H. Trammell, PO1:Jan 71:252:7784, of "New Design Criteria for USBR Penstocks", PO1: Jan 70:129:7034
See J. Edgar Revelle, PO2:Mar 71:435:7947

Mikluchin, P. T.
General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, TB:73: III-27-959

Milanese, Fernando
Dsc, HY6:Nov 69:2189:6866, of "Dr. Santorio's Water Current Meter, Circa 1610", HY1:Jan 69: 249:6351

Milek, William A., Jr.
Standards for Steel Construction in the United States, State-of-Art Report 1, TB:73:II-13-13

Miles, Don C.
Mall Planning Strategy, BP73:Dec 73:675

Miles, Samuel H.
Summary of the Session on Federal Inspection Activities, IMROD:Sept 73:67

Milho, Mario J.
See J. Laginha Serafim, ST8:Aug 70:1711:7492

Milhollin, Austin B.
Environmental Studies for Rocky Mountain Highway, UP1:Mar 74:17:10387
See Sol E. Cooper, PP3:July 72:431:9075

Milhous, Robert T.
Sediment Transport System in a Gravel-Bottomed Stream, with Peter C. Klingeman, HYB:Aug 73:293
Dsc, HY11:Nov 72:2043:9305, of "Sediment Transport Measurements in Gravel River", HY11: Nov 71:1817:8521
Dsc, TE3:Aug 74:787:10698, of "Planning Criteria for Bikeways", TE3:Aug 73:609:9928
See Erik Helland-Hansen, TN: HY1:Jan 74:261: 10283

Mill, Raymond A.
See Fred C. Ladd, SA5:Oct 69:982:6802

Millan, Alvaro
See R. A. Lohnes, TN: SM1:Jan 72:143:8618

Millar, Malcolm A.
See Harald S. Harung, ST6:June 73:1051:9776

Millard, Charles F.
Graving Dock for 300,000-ton Ships, with Jay J. Hassani, CE:June 71:71
Dsc: Michael N. Salgo, CE:Dec 71:67
TR:137:437

Miller, Alan J.
Queueing at Single-Berth Shipping Terminal, WW1: Feb 71:43:7895
TR:137:214

Miller, Ann P.
See R. Sage Murphy, SA2:Apr 68:345:5908

Miller, Arthur C.
Diffusion and Dispersion in Open Channel Flow, with Everett V. Richardson, HY1:Jan 74:159:10298
Dsc: Raul S. McQuivey and Thomas N. Keefer, HY10:Oct 74:1502:10839; E. O. Engmann, HY12:Dec 74:1849:10974; Harvey E. Jobson, HY12:Dec 74:1851:10974

Miller, Charles A.
Creep Deflection of Reinforced Concrete Beams, with Sidney A. Guralnick, ST12:Dec 70:2625:7768
Errata: ST12:Dec 71:2891:8557
TR:137:265

Miller, David R.
Problems and Deficiencies: Economics and Environmental Considerations, PITO:74:63
The Remote Airport: A Study of Access Feasibility, with T. Keith Dellaway and William H.T. Holden, TE1:Feb 74:179:10359

Miller, David S.
Floating Breakwaters, CE:Mar 74:77

Miller, Don C.
See Allan D. Beck, EPCE:Aug 74:199

Miller, Donald F.
See Kiran M. Vashi, SDNPF:Dec 73:173

Miller, Eric
Dsc, HY9:Sept 71:1544:8345, of "Cavitation Parameters for Outlet Valves", HY12:Dec 70:2519: 7771

Miller, Eugene A.
Dsc, with Lyle E. Lewis, SM5:Sept 70:1817:7499, of "Sand Densification by Piles and Vibroflotation", SM6:Nov 69:1303:6892
Dsc, with Lyle E. Lewis, PISST:71:226, of "Sand Densification by Piles and Vibroflotation", PISST: 71:203

Miller, Howard
Future Irrigation Demand in the Susquehanna Basin, IR4:Dec 68:391:6278
Dsc: Paul F. Keim, IR2:June 69:357:6581
TR:135:863

Miller, J. R., Jr.
See Richard A. Schleusener, IR73:Aug 73:147
See Richard A. Schleusener, IR3:Sept 74:339:10816

Miller, John M.
See Lee L. Lowery, Jr., CEO-II:70:415

Miller, John S.
See Lynn W. Gelhar, HY12:Dec 72:2135:9439

Miller, Kenneth D.
Surface Aeration Cuts Costs of Waste-Water Treatment Plant, CE:Aug 71:41
TR:137:510

Miller, Lawrence E.
Book Review: Controlling Urban Growth -- But for Whom?, CE:Sept 73:36
Civil Engineers in Urban Planning, Fifty Years of Accomplishment, 1923-1973, UP2:Nov 74:115: 10939

Miller, Paul W.
Data Collection Techniques - Time-Lapse Photography, with Walter H. Kraft, BP73:Dec 73: 221

Miller, Ralph E., Jr.
Cost-Effective Matching of Task and Computing Device, with John McCaslin, EC5:70:543
Cost-Effective Matching of Task and Computing Device, with John McCaslin, ST1:Jan 71:329:7854
Errata: ST12:Dec 71:2892:8557
TR:137:360

Miller, Robert E.
See Henry L. Langhaar, EM5:Oct 70:753:7635
See Ray N. Nitzsche, EM4:Aug 72:867:9130

Miller, Robert L.
Prediction Curves for Waves near the Source of an Impulse, 12CEC:71:609
The Role of Surface Tension in Breaking Waves, CE13:72:I-433

Miller, Roger
See Joseph M. Sussman, TE1:Feb 74:13:10335

Miller, Ronald Ian S.
Dsc, with Brian Arthur Radomske, EM5:Oct 74: 1041:10837, of "Large Eigenvalue Problems in Dynamic Analysis", EM6:Dec 72:1471:9433

Millet, Richard A.
Bedrock Verification Program for Davis-Besse Nuclear Power Station, with Douglas C. Moorhouse, SDNPF:Dec 73:89

Milli, Hugo
Dsc, HY10:Oct 74:1497:10839, of "Sediment Transport: New Approach and Analysis", HY11: Nov 73:2041:10167

Milligan, Victor
The Practice of Foundation Engineering in Canada, 4PCSM:71:II355
Session I - Embankments On Soft Ground, PES:73: III-41

Milliken, Donald L.
Flood Inflation, IMROD:Sept 73:399

Mills, G. M.
Dsc, with V. P. Mital, ST12:Dec 70:2673:7714, of "Crack Width Control in Reinforced Concrete Two-Way Slabs", ST3:Mar 70:701:7182

Mills, Henry J.
Operation and Maintenance of Colorado Aqueduct, IR1:Mar 71:203:8007
TR:137:392

Mills, K. G.
See Lewis T. Isaacs, IR1:Mar 72:150:8750

Mills, William C.
Algorithm For Adjusting Stream Stage Records, with Willard M. Snyder, IR1:Mar 71:51:7955
Dsc: Donald L. Chery, Jr., IR1:Mar 72:147:8750
Clo: IR4:Dec 72:595:9392
TR:137:919

Milnes, Thomas R.
See Alonzo W. Lawrence, SA1:Feb 71:121:7865

Miloh, Touvia
See Frederick A. Locher, HY7:July 73:1187:9823

Mim Mack, George J.
Auto Race Facility: Tracks for Indianapolis, Grand Prix, Dragsters-All in One, with Karl B. Brown, CE:May 71:39
Dsc: Carl L. Terzian, CE:Oct 71:76
TR:137:333

Mimr, Ahmed El
- Dsc, IR3:Sept 70:374:7498, of "Future of Ground Water in African Sahara Desert", IR4:Dec 69:563:6986

Minassian, W. Ter
- How To Keep Concrete Dams Competitive, with Pierre Londe, RCCD:70:395

Mindlin, Harold
- Influence of Details on Fatigue Behavior of Structures, ST12:Dec 68:2679:6286
  - TR:135:865

Miner, Gordon M.
- Use of Shotcrete from the Standpoint of the Owner, SUSS:July 73:13

Miner, J. Ronald
- Agricultural Waste Management, EE2:Apr 74:363:10470

Miner, Russell M.
- See Peter D. Hindley, PO4:Dec 71:783:8580
- See Peter D. Hindley, HY8:Aug 72:1411:9118

Minkov, M.
- Dsc, with Dimtcho Evstatiev, SM5:Sept 70:1821:7499, of "Mixing-in-Place Soil and Portland Cement", SM6:Nov 69:1357:6909

Minor, Joseph E.
- Failures of Structures Due to Extreme Winds, with Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324
  - Dsc: Herbert S. Saffir, ST7:July 73:1676:9826
  - Clo: ST3:Mar 74:705:10381
  - TR:139:138
- Failures of Structures Due to Extreme Winds, with Kishor C. Mehta and James R. McDonald, STF:73:49
- Schools. . . With Tornado Protection (Book Review), CE:Sept 74:44
- See Steven R. Rae, PP2:Apr 73:143:9670
- See James R. McDonald, SDNPF:Dec 73:543
- See Ernst W. Kiesling, ST6:June 74:1314:10569

Minshall, Neal E.
- Stream Enrichment from Farm Operations, with Stanley S. Witzel and M. Starr Nichols, SA2:Apr 70:513:7238
  - Errata: SA5:Oct 70:1291:7569
  - Clo: SA2:Apr 71:230:8013
  - TR:136:912

Minton, Paul
- Unified Nondimensional Formulation for Open Channel Flow, with Rodney J. Sobey, HY1:Jan 73:1:9468
  - Dsc: Rupchand M. Advani, HY12:Dec 73:2385:10182; Chesley J. Posey, HY1:Jan 74:238:10251; Chintu Lai, HY3:Mar 74:482:10379; Francis F. Escoffier, HY6:June 74:824:10567
  - TR:139:165
- See Murray Clamen, HY9:Sept 74:1292:10770

Mire, Ernest Lewis
- Memoir of, TR:137:1067

Miropolsky, J. Z.
- See A. I. Leonov, ISSP:Aug 72:535

Mirsky, Melvin M.
- See Kenneth R. Ware, SM12:Dec 73:1135:10239

Mirsu, Ovidiu
- See Constantin N. Avram, TB:73:III-21-318

Mirza, Jehangir F.
- Stress Strain Characteristics of Gypsum Concrete, with E. G. Kandasamy, TN: ST12:Dec 72:2831:9400
- Dsc, with W. Burton Castner, ST2:Feb 69:280:6373, of "Hyperbolic Paraboloid Structures on Four Supports", ST4:Apr 68:995:5902
- Dsc, ST3:Mar 69:493:6430, of "Single-Layer Corrugated-Steel-Sheet Hypars", ST6:June 68:1279:5977
- Dsc, with Paul Zia, ST2:Feb 71:737:7867, of "Concrete Beams with Prestressed Reinforcement", ST7:July 70:1445:7411

Mirza, M. Saeed
- See Cheng-Tzu Hsu, ST4:Apr 72:937:8802
- See Cheng-Tzu Hsu, TN: ST2:Feb 73:285:9545

Mishra, Govinda Chandra
- See Annapareddy Siva Reddy, HY7:July 71:1101:8248
- See Kanakatti Subramanya, HY12:Dec 73:2333:10197

Mishra, P. N.
- Dsc, with Liang-Tseng Fan and L. E. Erickson, EE6:Dec 73:962:10180, of "Optimal Design of Wastewater Treatment Systems by Enumeration", SA6:Dec 72:833:9403

Mishu, Louis P.
- See Adolph G. Altschaeffl, TN: SM4:July 70:1487:7387

Misiaszek, Edward T.
- A Professionally Oriented Civil Engineering Department, CEE:Feb 74:1-552

Misra, H. C.
- See Palepu V. Rao, PO:Mar 69:35:6456

Misra, Madhu S.
- Dsc, HY1:Jan 69:566:6323, of "Sedimentation in Retarding Basins", HY3:May 68:739:5951
- Dsc, IR1:Mar 69:253:6428, of "Optimal Timing of Irrigation", IR2:June 68:267:5993
- Dsc, CE:Jan 71:64, on Students Tackle Pollution Problems, CE:Sept 70:51

Misterek, Dewayne L.
- Book Review: Practical Applications of Rock Mechanics, CE:Feb 73:17

Mistetskii, G. E.
- See I. I. Lyashko, EM4:Aug 73:639:9956

Mital, B. K.
- Dsc, ST3:Mar 71:976:7944, of "Concrete Beams in Bending, Torsion and Shear", ST5:May 70:885:7270

Mital, V. P.
- See G. M. Mills, ST12:Dec 70:2673:7714

Mitchell, Dee
- Estimating Eutrophic Potential of Pollutants, with James C. Buzzell, Jr., SA4:Aug 71:453:8333
  - Dsc: Gerald C. McDonald and Nicholas L. Clesceri, SA1:Jan 72:459:8800; Madhav L. Tikhe, SA2:Apr 72:463:8800
  - TR:137:979

Mitchell, G. R.
- Loadings on Buildings, State-of-Art Report 2A, TB:73:Ib-5-19

Mitchell, Gregory C.
- Analysis and Stability of Floating Roofs, EM5:Oct 73:1037:10101
  - Dsc: Robert Schmidt and Donald A. DaDeppo, EM5:Oct 74:1060:10837; Samuel W. Chung, EM6:Dec 74:1261:10972
  - Errata: EM3:June 74:622:10565
  - TR:139:498

Mitchell, James K.
Analysis of Load-Bearing Fills over Soft Subsoils, with William S. Gardner, SM11:Nov 71:1549:8522
TR:137:972
Causes of Clay Sensitivity, with William N. Houston, SM3:May 69:845:6568
Dsc: J. Kenneth Torrance, SM1:Jan 70:360:6989; T. S. Ramanatha Iyer, SM2:Mar 70:774:7115
Clo: SM1:Jan 71:239:7785
TR:136:130
Chemico/Osmotic Effects in Fine-Grained Soils, with James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
TR:139:299
Civil Engineering Faculties and the Space Program, ESE:Apr 70:151
Clay Chemistry and Slope Stability, with Richard J. Woodward, TN: SM10:Oct 73:905:10042
Electrical Dispersion in Relation to Soil Structure, with Kandiah Arulanandan, SM2:Mar 68:447:5853
Dsc: Chin Fung Kee, SM2:Mar 69:679:6429
Clo: SM6:Nov 69:1541:6894
TR:135:818
In-place Treatment of Foundation Soils, SM1:Jan 70:73:7035
Dsc: George H. Watson, SM4:July 70:1480:7385; Byron J. Prugh, SM5:Sept 70:1833:7499
Clo: SM4:Apr 71:684:8013
TR:136:488
In-Place Treatment of Foundation Soils, PISST:71:93
Dsc: George H. Watson, PISST:71:131; Byron J. Prugh, PISST:71:134
Clo: PISST:71:134
Static Cone to Compute Static Settlement Over Sand, SM3:May 70:1011:7302
Dsc: B. Ramanathan, SM1:Jan 71:274:7785; J. Gielly, P. Lareal and Guy C. Sanglerat, SM2: Feb 71:508:7866; Desmond L. Webb and Andrew L. Melvill, SM3:Mar 71:587:7943
Clo: SM12:Dec 71:1703:8556
TR:137:24
See Awtar Singh, SM1:Jan 68:21:5728
See Raymond Lundgren, SM2:Mar 68:407:5844
See William N. Houston, SM4:July 69:1037:6666
See Nicholas C. Costes, SM6:Nov 70:2045:7704
See Ted S. Vinson, SM6:June 72:579:8947
See W. David Carrier, III, SM10:Oct 73:813:10099

Mitchell, Mance Randolph
Memoir of, TR:135:1134

Mitchell, R. J.
Failure of Submarine Slopes Under Wave Action, with K. K. Tsui and Dwight A. Sangrey, CE13:72:II-1515
Foundations on the Crust of Sensitive Clay Deposits, with Dwight A. Sangrey and G. S. Webb, PES:72:I-1051
Errata: PES:73:III-178

Mitchell, Ralph
Biological Control Of Intestinal Bacteria and Viruses, CEO-II:70:1241
Destruction of Bacteria and Viruses in Seawater, SA4:Aug 71:425:8299
TR:137:1002
See Thomas D. Waite, SA5:Oct 72:763:9293
See Gabriel Bitton, TN: EE6:Dec 74:1310:10978

Mitchell, Richard A.
High-Strength End Fittings for FRP Rod and Rope, with Ruth M. Woolley and Nixon Halsey, EM4: Aug 74:687:10716

Mitchell, Richard J.
Dsc, SU1:May 71:143:8085, of "Coordinates Versus Confusion", SU2:Sept 70:191:7528

Mitchell, Robert B.
See Wilbur F. Gaughan, EPCE:Aug 74:391

Mitchell, Robert D.
Hudson River as a Water Source for New York City, SA3:June 68:447:5967
Dsc: Michael J. O'Toole, SA3:June 69:679:6582; Roland P. Kelly and Jerome O. Stetson, SA3: June 69:679:6582
Clo: SA1:Feb 70:182:7046
TR:135:590

Mitchell, Stephen C.
Is the Romance With Technology Over?, CE:July 71:79
Opportunities for Shared Concern, CE:Feb 74:94

Mitsuyasu, Hisashi
The One-Dimensional Wave Spectra at Limited Fetch, CE13:72:I-289

Mitten, Loring G.
See C. Anthony Tsou, HY5:May 73:833:9732

Miyata, Moto
See George F. Carrier, EM6:Dec 71:1703:8611

Mizell, Buford
Oil Based Fluid Corrosion-Proofs Gas Line, CE:June 72:54
TR:138:280

Moavenzadeh, Fred
See Russel C. Jones, CE:Aug 69:28
See Joseph Soussou, EM5:Oct 72:1205:9289
See Hani Findakly, TE1:Feb 74:57:10358
See Antoine E. Naaman, EM2:Apr 74:397:10491

Moayeri, Mohammad S.
Flow in Open Channels with Smooth Curved Boundaries, HY12:Dec 73:2217:10194
Errata: HY11:Nov 74:1724:10898
TR:139:468
Potential Flow at a Two-Dimensional Conduit Outlet, with Theodor S. Strelkoff, HY4:Apr 73:653:9680
TR:139:268
Seepage Through Dams with Horizontal Toe Drain, SM5:May 72:461:8878
Dsc: Armand Mayer, SM12:Dec 72:1425:9394
Clo: SM6:June 73:475:9762
TR:139:52
See Theodor S. Strelkoff, HY4:Apr 70:879:7207

Mobarek, Ismail E.
The Nile Delta Coastal Protection Project, CE13:72: II-1409

Mobasheri, Fereidoun
See Ricardo C. Harboe, HY11:Nov 70:2297:7673

Mockros, Lyle F.
Validity of Stokes Theory for Accelerating Spheres, with Robert Y.S. Lai, EM3:June 69:629:6613
Dsc: Chin-Yih Kuo, EM2:Apr 70:177:7188
Clo: EM5:Oct 70:786:7574
TR:136:177
See Robert Y. S. Lai, CEO-II:70:945

Modi, Pashupati N.
Dsc, with S. M. Seth, HY5:Sept 68:1358:6087, of "Determination of Efficient Open Channel Sections", HY6:Nov 67:103:5567
Dsc, IR2:June 71:333:8156, of "Friction Factors for Corrugated Plastic Tubing", IR3:Sept 70:265:7531
Dsc, IR1:Mar 72:165:8750, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987
See Rupchand M. Advani, HY4:Apr 70:1044:7189
See Rupchand M. Advani, HY8:Aug 70:1763:7439
See Rupchand M. Advani, HY9:Sept 70:1910:7497
See Rupchand M. Advani, HY11:Nov 70:2384:7641
See Rupchand M. Advani, HY1:Jan 71:204:7783
See Rupchand M. Advani, HY10:Oct 71:1788:8407
See Rupchand M. Advani, HY11:Nov 71:1923:8483

Modlin, David G., Jr.
Synthetic Through Trip Patterns, TE2:May 74:363:10526

Mody, Arvind P.
See Jayant P. Patel, HY12:Dec 70:2620:7711

Moe, Johannes
See Dag Kavlie, EC5:70:27
See Dag Kavlie, ST1:Jan 71:33:7823

Moehlenpah, Arlo E.
See Ori Ishai, EM5:Oct 70:739:7616

Moeller, Dade W.
Environmental Protection for Nuclear Applications, with Abraham S. Goldin, SA3:June 69:373:6589
TR:135:117

Moellman, Dennis E.
Close-Range Photogrammetric Data Reduction Scheme, with Houssam M. Karara, SU2:Sept 68: 211:6106
TR:135:48

Moffatt, David L.
Subsurface Video Pulse Radars, EFSE:Aug 74:195

Mogaliah, Gavidi
See Annapareddy Siva Reddy, TN: SM6:Nov 70: 2175:7646

Mogel, Theodor R.
Computation of Alongshore Energy and Littoral Transport, with Robert L. Street and Byrne Perry, 12CEC:71:899
Wave Refraction and Littoral Transport Computation, with Robert L. Street, WAVES:Sept 74:790

Mogridge, Geoffrey R.
Experiments on Bed Form Generation by Wave Action, with J. William Kamphuis, CE13:72:II-1123
Testing Sediment Movement Due to Wave Action, HY7:July 70:1587:7433
Dsc: Harihar Raman and John J. Earattupuzha, HY4:Apr 71:625:8012
Clo: HY11:Nov 71:1899:8483
TR:136:1309
See Richard Silvester, 12CEC:71:651

Moh, Za-Chieh
Pore Pressures Under a Bund of Soft Fissured Clay, with Edward W. Brand and John D. Nelson, PES: 72:I-243

Mohamed, Abdel-Hady
See Doss Neely, CO2:Oct 68:181:6166

Mohamed, C. P.
See P. Suryaprakasa Rao, WW1:Feb 71:212:7868

Mohamed, S. M.M.
See T. S. Ramanatha Iyer, SM3:May 70:1074:7249

Mohan, Dinesh
The Dynamic Cone Penetration Test, with D. F. Sen Gupta, CE:Feb 70:49
TR:136:90
Dsc, with G. S. Jain, SM2:Mar 69:668:6429, of "End Bearing and Skin Friction Resistance of Piles", SM2:Mar 68:421:5846

Mohanka, Shyam S.
Theory of Multilayer Filtration, SA6:Dec 69:1079: 6959
Dsc: Arun K. Deb, SA5:Oct 70:1282:7569
Clo: SA3:June 71:375:8157
TR:136:231
Dsc, with Adnan Gur, SA1:Feb 70:183:7046, of "Theory of Sand Filtration", SA3:June 69:399:6593

Mohanrao, G. J.
See P. V.R. Subrahmanyam, SA6:Dec 70:1463:7713

Mohan Rao, Udayagiri
Dsc, HY5:May 70:1215:7248, of "Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: F. Laboratory Procedures, Task Committee on Preparation of the Sedimentation Manual", HY5:Sept 69:1515:6757

Mohr, Adolph W.
Development and Future of Dredging, WW2:May 74: 69:10513

Mohraz, Bijan
See William C. Schnobrich, ST10:Oct 72:2327:9227

Moin, Syed A.
See Vulli L. Gupta, HY10:Oct 74:1353:10880

Mok, Carson K.C.
See August J. Durelli, ST8:Aug 69:1713:6739

Mole, Robert Alan
Fiber Reinforced Composites: New Structural Material, CE:Dec 73:72
TR:139:548

Mollmann, H.
Analysis of Plane Prestressed Cable Structures, ST10: Oct 70:2059:7598
TR:136:1182

Molof, Alan H.
See Matthew M. Zuckerman, EE1:Feb 74:220:10302

Molz, Fred J.
Effect Of Axial Flow On Preforated Pipe Outflow, with Reed A. Edwards, TN: HY4:Apr 72:747:8803
Simulation of Post-Irrigation Moisture Movement, IR4:Dec 72:523:9419
TR:138:580

Monaghan, Charles A.
Centralized Treatment of Industrial Wastewaters, with Don Simmons, CE:June 73:85
TR:139:262

Monahan, Bernard P.
Commentary, with Reuben Samuels, CEWAU:74:78

Monahan, Edward J.
A Method for Specifying Percentage Soil Compaction, CE:May 74:82
Dsc: Paul M. Reed, CE:Oct 74:22

Moncure, R. W.
See W. Harrison, 12CEC:71:1201

Monev, Evelin
See Borislav V. Georgiev, ISSF:Aug 72:519

Money, Lloyd J.
Keynote Address — Our Last Unexplored Frontier — The Space Beneath Our Feet, EFSE:Aug 74:10

Moneymaker, Berlen C.
Dsc, CE:Aug 72:59, on Subsurface Freezing Used In Tunneling, CE:May 72:37

Monforton, Gerard R.
Finite Element Analysis Of Skew Sandwich Plates, with Mofreh G. Michail, TN: EM3:June 72:763: 8931
Some Orthotropic Skew Plate Finite Element Results, TN: ST4:Apr 72:955:8838

Mongan, Thomas R.
See Jack Golden, CE:Mar 74:49

Monge, Joaquin
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, with E. Calcagni, TB:73:III-21-310
See C. Martin Duke, TB:73:Ib-6-255

Moni, N. S.
Study of Mudbanks along the Southwest Coast of India, 12CEC:71:739
Systematic Study of Coastal Erosion and Defence Works in the Southwest Coast of India, CE13:72:II-1427

Monin, A. S.
Turbulence and Diffusion in Stratified Flows, ISSF: Aug 72:87

Monismith, Carl L.
Fatigue of Asphalt Paving Mixtures, with John A. Deacon, TE2:May 69:317:6543
TR:135:1066

Monismith, Louis L.
Asphalt Paving Technology-Some Current Developments and Trends, CE:Aug 69:45
TR:135:684

Monkmeyer, Peter L.
A Higher Order Theory for Symmetrical Gravity Waves, 12CEC:71:543
See Lynn W. Gelhar, EM1:Feb 68:295:5815
See Stuart G. Walesh, HY9:Sept 73:1401:10018
See Willard A. Murray, HY9:Sept 73:1573:9997

Monney, Neil T.
Arctic Construction Problems and Techniques, with Millard M. Hill, P. Oien, S. J. Rowland and F. L. Vail, CO1:Jan 68:89:5760
TR:135:1065

Monro, John C.
National Weather Service River Forecasting System, with Eric A. Anderson, HY5:May 74:621:10549

Monroe, Darrell W.
Chlorine Disinfection in Final Settling Basins, with Donald C. Philipps, NSCD:71:163
Chlorine Disinfection in Final Settling Basins, with Donald C. Phillips, SA2:Apr 72:287:8819
TR:138:296

Monsees, Melford E.
Corps of Engineers Promotes Continuing Education, CE:Jan 72:63
TR:138:39
A Success Story - Kansas City Engineering Evening Graduate Program (Discussion), CEE:Feb 74:2-320

Monsey, Arthur
Construction Expediting, CO1:June 70:19:7356
Dsc: John D. Bristor, CO1:Mar 71:167:7939
Clo: CO2:Nov 71:329:8482
TR:136:1314

Monteith, William J.
Chart Compilation-Field and Office, SU2:Sept 70: 157:7522
TR:136:885

Montgomery, H. A.L.
Dsc, SA2:Apr 69:356:6485, of "Atmospheric Oxygenation in a Simulated Stream", SA2:Apr 68: 319:5905

Montgomery, Harry M.
Long-Span Bridge: Utility, Grace at Low Cost, with Roger D. Troxell, CE:May 72:73
Dsc: Felix Kulka, CE:Aug 72:59
TR:138:269

Montgomery, James Mckee
Memoir of, TR:135:1135

Monti, T. A.
Le Chateau Champlain, TB:73:C-P-278

Moody, Charles G.
Dsc, WW2:May 71:427:8086, of "Interoceanic Canal Navigation Criteria", WW2:May 70:395:7288
Dsc, WW2:May 71:430:8086, of "Effect on Waterway Depth and Alignments", WW2:May 70: 497:7305

Moody, F. J.
Fluid Reaction and Impingement Loads, SDNPF:Dec 73:219

Moody, Martin L.
Parametric Vibration Response of Columns, EM3: June 69:665:6619
Dsc: Dusan Krajcinovic, EM2:Apr 70:180:7188
Clo: EM5:Oct 70:787:7574
TR:136:81
Response of Slender Columns to Rapid Compression, EM1:Feb 69:211:6403
TR:135:206
Dsc, with Walter L. Meyer, CO2:Oct 68:255:6131, of "Wood Design Criteria for Concrete Formwork", CO2:Sept 67:13:5432
See Ahmed E. Salama, EM1:Feb 69:195:6402

Moody, Wendell B.
See H. N. McGill, IR73:Aug 73:501

Moody, William T.
Dsc, CE:Jan 72:62, on Reservoir Storage Evacuation Time by Integration, CE:Apr 71:42

Moon, Phillip F.
See Rex K. Rainer, TB:73:Ia-4-701

Mooney, Harold M.
Seismic Shear Waves in Engineering, GT8:Aug 74: 905:10745

Moor, Julius H.
Field Tests of Ice Jam Prevention Techniques, with Carl H. Watson, HY6:June 71:777:8179
Errata: HY5:May 72:953:8859
TR:137:707

Moore, Bruce H.
Highlights — Foundation Exploration and Design — Locks and Dam No.26 (Replacement), EFFD:Mar 74:11

Moore, Charles A.
Effect of Mica on K_0 Compressibility of Two Soils, SM9:Sept 71:1275:8401
Dsc: Vegesna S. Raju, SM4:Apr 72:439:8801; Kamal Z. Andrawes and Mohamed A. El-Sohby, SM5:May 72:504:8860; Prabhakar J. Pise, SM6:June 72:644:8929; Mosaid K. Al-Hussaini, SM9:Sept 72:958:9158
Clo: SM3:Mar 73:293:9582
TR:138:33
Process Control Computers For Educational Exercises, TN: SM5:May 72:517:8865

Moore, Daniel W.
Planning for a New Town, UP1:Apr 71:79:8065
Errata: UP1:July 72:109:9005
TR:137:771
See William S. Pollard, Jr., UP1:Apr 69:27:6517

Moore, David S.
Dsc, CE:Nov 72:67

Moore, Desmond F.
On the Concept of Mean Hydraulic Radius, HY4: July 69:1305:6691
Dsc: N. Narayana Pillai, HY4:Apr 70:1066:7189; T. R. Chandrasekhara and S. Venkataramana, HY4:Apr 70:1068:7189
Clo: HY11:Nov 70:2374:7641
TR:136:84

Moore, Donald O.
Synthesizing Daily Discharge From Rainfall Records, HY5:Sept 68:1283:6119
Dsc: Robert L. McFall, HY2:Mar 69:767:6433; Walter T. Sittner, HY2:Mar 69:768:6433; Mordechai H. Diskin, HY3:May 69:1090:6524
Clo: HY1:Jan 70:263:6988
TR:135:758

Moore, Edgar T.
Design and Construction of Mossyrock Penstocks, PO1:Jan 71:49:7799
TR:137:85
Reservoir Storage Evacuation Time by Integration, CE:Apr 71:42
Dsc: William T. Moody, CE:Jan 72:62
TR:137:269
Dsc, Reservoir Storage Evacuation Time by Integration, CE:Apr 71:42

Moore, Herbert
Dsc, EE4:Aug 74:1039:10693, of "Wastewater Management Studies by the Corps of Engineers", EE5:Oct 73:653:10044

Moore, J. Robert
Urban Riverside Environmental Analysis, UP1:Apr 71:105:8066
TR:137:308

Moore, Joseph H.
Junior-Senior Bachelor of Technology Programs, CEE:Feb 74:1-221

Moore, Normand L.
Control Surveys for Major Bridges, with Richard G. Begell, SU1:May 71:83:8098
Errata: SU1:July 72:121:9004
TR:137:899

Moore, Peter J.
Calculated and Observed Vibration Amplitudes, SM1: Jan 71:141:7789
Dsc: Kolinjuvadi S. Sankaran and Madurachari S. Subrahmanyam, SM8:Aug 71:1131:8270
Clo: SM2:Feb 72:223:8683
TR:137:229
Lateral Pressures from Soft Clay, with Graham K. Spencer, SM11:Nov 72:1225:9360
TR:138:538
Settlement of Building on Deep Compressible Soil, with Graham K. Spencer, SM3:May 69:769:6547
Dsc: Jean-Pierre Giroud and J. M. Runacher, SM2:Mar 70:768:7115; Clyde N. Baker, Jr., SM2:Mar 70:771:7115; M. Anandakrishnan and T. Kuppusamy, SM2:Mar 70:772:7115; S. C. Sharda, SM2:Mar 70:773:7115; S. Boominathan, SM3:May 70:1049:7249
Clo: SM6:Nov 70:2127:7643
TR:136:113
Dsc, SM1:Jan 69:441:6324, of "Settlement of Spread Footings on Sand", SM3:May 68:735:5959

Moore, R. E.
Operation and Maintenance of an Irrigation District in an Urbanizing Environment, with D. L. Weesner and T. M. Sabin, IRS:Sept 72:243

Moore, Raymond E.
See Paul Leung, PO4:Dec 71:729:8565
See Paul Leung, PO4:Dec 71:749:8564

Moore, Robert C.
Pilot Plant Testing for Municipal Sewage Treatment, SA2:Apr 70:573:7242
TR:136:922

Moore, Stephen F.
Estimation Theory Applications to Design of Water Quality Monitoring Systems, HY5:May 73:815: 9755
TR:139:291

Moore, Walter P., Jr.
Amphitheater Roof Features Steel Box Sections, CE: Nov 69:70
TR:135:775
Structural Systems, Summary Report -- Part I, TB:73: Ia-3-647

Moore, William M.
See Frank H. Scrivner, HW2:Nov 68:229:6252

Moore, William R.
Erosion Control in Relation to Watershed Management, with C. Edwin Smith, IR3:Sept 68: 321:6126
Dsc: Richard H. Hawkins, IR2:June 69:6581
Clo: IR1:Mar 70:91:7114
TR:135:692

Moore, William W.
Needs of Engineering Education for the Future -- View of a Conuslting Engineer, CEE:Feb 74:1-327
Proposed New ASCE Policy on Engineering Education, by Ad Hoc Subcommittee for Revision of Policy C-37, with John L. Rumpf, Leo W. Ruth, James H. Schaub and Ralph H. Wallace, CEE:Feb 74:1-905
Sample Approaches to Optimum Use of Marginal Lands, with Nicholas Chryssafopoulos, SM3:Mar 72:243:8789
TR:138:207
Dsc, PWS:Nov 72:33, of "The Engineer and the Crisis of the Cities", PWS:Nov 72:19
Dsc, PWS:Nov 72:113, of "Public Service Facilities and the Environment", PWS:Nov 72:95
Dsc, PWS:Nov 72:116, of "Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment", PWS:Nov 72:81

Moorhouse, Douglas C.
Sand Densification by Heavy Vibratory Compactor, with Gerald L. Baker, SM4:July 69:985:6656
Dsc: John H. Schmertmann, SM1:Jan 70:363: 6989
TR:136:1082
Sand Densification by Heavy Vibratory Compactor, with Gerald L. Baker, PISST:71:379
Dsc: John H. Schmertmann, PISST:71:389
Shallow Foundations, PES:73:II-71
See Richard A. Millet, SDNPF:Dec 73:89

Moorman, Robert B.B.
Guide for the Design of Aluminum Formed-Sheet Building Sheathing, ST8:Aug 69:1727:6744
Dsc: Herbert S. Saffir, ST1:Jan 70:165:6990
Clo: ST12:Dec 70:2656:7714
TR:136:195
See Roy Levy, EM2:Apr 71:495:8057

Moraes, Carlos de Campos
Experiments of Wave Reflexion on Impermeable Slopes, 12CEC:71:509
Waves Induced by Non-Permanent Paddle Movements, with Fernando Silveira Ramos and Manuel Mendes de Carvalho, CE13:72:I-707
See Manuel Mendes de Carvalho, 12CEC:71:65

Morales, Ray
Youth Makes Waves About Dirty Water, with Ralph Wagner, CWFE:Mar 71:43

Morales, Walter J.
Displacement Bounds for Blast Loaded Structures, EM4:Aug 72:965:9147
TR:138:410

Moran, John
See Stephen L. Tuttle, CEE:Feb 74:1-996

Morcos, Andrew
Seismic Instrumentation for Nuclear Power Plants, with Shih-Lung Chu, PO2:Nov 73:281:10164
TR:139:524
See M. P. Singh, SDNPF:Dec 73:263

Moreadith, Frederick L.
Structural Analysis and Design of Pipe Whip Restraints, with Garry J. Patterson, C. R. Angstadt and James F. Glova, SDNPF:Dec 73:201
Dsc, with Garry J. Patterson, PO2:Nov 73:427:10111, of "Analysis and Design of Hyperbolic Cooling Towers", PO1:June 72:133:8997

Moreland, Ronald G.
Hutchinson Island Nuclear Containment Structure, with Richard L. Bentley, PO1:May 73:041:9714
TR:139:273

Morel-Seytoux, Hubert J.
See Richard L. Brustkern, HY12:Dec 70:2535:7743
See Hiroshi Nakamichi, IR2:June 71:275:8201
See Alain Noblanc, HY9:Sept 72:1527:9186
See Purushottam Dass, IR1:Mar 74:1:10397

Moreno Gomez, Edmundo
See Luis Ramirez De Arellano, PES:72:I-779

Moretto, Oreste
Dsc, 4PCSM:72:III70, of "The Standard Penetration Test", 4PCSM:71:I1
Dsc, 4PCSM:72:III156, of "The Allowable Settlement of Structures", 4PCSM:71:I171
See O. A. Varde, 4PCSM:71:II179
See Carlos A. Micucci, 4PCSM:71:II309

Morey, Rexford M.
Continuous Subsurface Profiling by Impulse Radar, EFSE:Aug 74:213

Morfeldt, Carl-Olof
Storage of Oil in Unlined Caverns in Different Types of Rock, RM14:73:409

Morgali, James R.
Laminar and Turbulent Overland Flow Hydrographs, HY2:Feb 70:441:7069
Dsc: Chun-Tsung Wang and Harry G. Wenzel, Jr., HY7:July 70:1660:7384; Arie Ben-Zvi, HY12:Dec 70:2628:7711
Clo: HY7:July 71:1136:8223
TR:136:998

Morgan, Arthur E.
Dsc, CE:Apr 73:81

Morgan, D. L.
See William O. Pruitt, IR2:June 72:177:8941

Morgan, Ernest D.
See Gilbert L. Brown, SM1:Jan 71:119:7820

Morgan, George
Hydrodynamic Force Coefficients for Oscillatory Flow, WAVES:Sept 74:879

Morgan, Jack R.
Behavior of Sands Under Surface Loads, with Charles M. Gerrard, SM12:Dec 71:1675:8577
Errata: SM3:Mar 73:293:9582
TR:137:958
Dsc, with Charles M. Gerrard, SM1:Jan 69:385:6324, of "Stress Path Method", ST6:Nov 67:309:5613
See Charles M. Gerrard, SM5:Jan 69:398:6754

Morgan, John Dwight
Memoir of, TR:135:1136

Morgan, L. R.
Sound Time-Lag Measurement for Distance Determination, with T. L. Morgan, CE:Feb 69:58
TR:135:113

Morgan, Paul E.
See Richard R. Dague, IR4:Dec 68:441:6298

Morgan, T. L.
See L. R. Morgan, CE:Feb 69:58

Morgan, T. Thurman
Nomograph for Making Compound Growth Projections, CE:July 69:63
TR:135:193

Morgan, William T.
See Joseph F. Malina, Jr., SA6:Dec 72:819:9437

Morgenroth, Dan
See Richard Crenshaw, TB:73:Ia-4-797

Morgenstern, Norbert R.
Classification of Argillaceous Soils and Rocks, with Kurt D. Eigenbrod, GT10:Oct 74:1137:10885
Methods of Estimating Lateral Loads And Deformations, with Zdenek Eisenstein, LS:70:51
See Zdenek Eisenstein, PES:72:I-765
See Sivajogi D. Koppula, SM1:Jan 72:79:8674
See Abbanki V. Gopala Krishnayya, GT9:Sept 74:1051:10828

Mori, Ruy Taiji
See Lincoln de A. Queiroz, 4PCSM:71:II293

Mori, Yasuo
See Richard de Neufville, TE1:Feb 70:11:7080

Morimoto, Thomas T.
Rehabilitating Chicago's Expressways, CE:Dec 72:59
Dsc: Albert C. Strauss, CE:May 73:57
TR:138:541

Morin, Donald A.
Highway and Modal Choice Decisions, TE1:Feb 73:145:9569
TR:139:201

Morin, Thomas L.
OPBID: Competitive Bidding Strategy Model, with Richard H. Clough, CO1:July 69:85:6690
Dsc: Ralph M. Baumgarten, CO1:June 70:88:7308; Neal B. H. Benjamin, CO1:June 70:91:7308; Marvin Gates, CO1:June 70:93:7308
Clo: CO2:Sept 72:347:9155
TR:136:1062
Optimality of Heuristic Sequencing Technique, TN: HY8:Aug 74:1195:10748
Optimal Sequencing of Capacity Expansion Projects, HY9:Sept 73:1605:9972
Errata: HY11:Nov 74:1724:10898
TR:139:351
Dsc, with Augustine O. Esogbue, UP1:Apr 71:121:8016, of "Economics of Solid Waste Investment Decisions", UP1:Mar 70:65:7151
Dsc, with Richard H. Clough, CO1:Mar 72:137:8748, of "Bidding With Competitive Strategy Models", CO1:Mar 71:113:8008
See Augustine O. Esogbue, HY10:Oct 70:2137:7568

Morlok, Edward K.
Schedule Planning and Timetable Construction for Commuter Railroad Operations, with Hugo L. Vandersypen, TE3:Aug 73:627:9922
Dsc: Donald O. Eisele, TE3:Aug 74:785:10698
TR:139:372
See Jarir S. Dajani, SA6:Dec 72:853:9414

Morris, Charles D.
Dsc, IR1:Mar 72:164:8750, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987
See Henry Liu, HY6:Nov 68:1601:6200
See Henry Liu, HY2:Feb 70:565:7101

Morris, Dale L.
Curved Beam Stiffness Coefficients, ST5:May 68:1165:5947
Dsc: A. S. Hall, ST2:Feb 69:305:6373; Semih S. Tezcan and Bulent Ovunc, ST2:Feb 69:308:6373
TR:135:651

Morris, David
Inclusion of Social Values in Facility Location Planning, UP1:July 72:17:9023
TR:138:167

Morris, Glenn A.
Approximate Yield Surface Equations, with Steven J. Fenves, EM4:Aug 69:937:6741
Dsc: Wai F. Chen and Sakda Santathadaporn, EM2:Apr 70:188:7188
Clo: EM5:Oct 70:790:7574
TR:136:225
Elastic-Plastic Analysis of Frameworks, with Steven J. Fenves, ST5:May 70:931:7293
TR:136:898

Morris, J. Carrell
Disinfectant Chemistry and Biocidal Activities, NSCD:71:609
See John E. Delaney, NSCD:71:61
See John E. Delaney, SA1:Feb 72:23:8718
See Kenneth Y. Chen, SA1:Feb 72:215:8710

Morris, John W.
Bureau of Reclamation Shotcrete Design Practices, SUSS:July 73:153
National Program for Inspection of Dams, IMROD: Sept 73:14
Recent Concrete Developments in the Corps of Engineers, ECCD:72:15

Morris, M. D.
Architects and Planners — Introduction, CEWAU: 74:209
Brooklyn Bridge -- Introduction, CEWAU:74:25
Clear Communication--Key to Professional Development, PP1:Jan 72:77:8659
TR:138:131
Communications -- Introduction, CEWAU:74:95
Engineering Education -- Introduction, CEWAU:74: 257
Exporting Expertise -- Introduction, CEWAU:74:225
The Law -- The Letter and the Spirit -- Introduction, CEWAU:74:161
Medal of Honor for City Planning -- Introduction, CEWAU:74:65
Medicine -- Introduction, CEWAU:74:135
Professional Athletics -- Introduction, CEWAU:74:73
Why Man Creates -- Introduction, CEWAU:74:3
Dsc, CE:Aug 73:20, on Foundation Failure, CE:June 73:89

Morris, Nicholas F.
Dynamic Analysis of Cable-Stiffened Structures, ST5: May 74:971:10556
Dynamic Response of Cable Networks, ST10:Oct 74: 2091:10895
See George N. Freskakis, EM5:Oct 72:1115:9247
See Robert K. Emerton, EM6:Dec 72:1417:9446
See Leo J. Galletta, EM4:Aug 74:795:10761

Morris, Paul
Memoir of, TR:136:1357

Morris, Robert E., Jr.
Dsc, CE:Dec 72:39, on Design of PVC Water-Distribution Pipe, CE:June 72:70

Morris, Robert L.
Social Considerations of Urban Transportation Systems, TE3:Aug 70:333:7471
Dsc: Labh S. Sachdev, TE1:Feb 71:168:7864; David C. Colony, TE1:Feb 71:169:7864; Norman L. Cooper, TE1:Feb 71:170:7864
Clo: TE4:Nov 71:705:8486
TR:136:1172

Morris, Thomas E.
New Role of Engineers as Trained Divers, IRS:Sept 72:257

Morrison, Edward B.
Nomograph the Design of Thrust Block, CE:June 69: 50
TR:135:459

Morrison, Ross A.
See Kenneth L. Lee, SM6:Nov 70:2025:7703

Morrison, Thomas G.
Lateral Buckling of Constrained Beams, ST3:Mar 72: 741:8793
Dsc: Tamirisa V.S.R. Apparao and Pallessena R. Natarajan, ST1:Jan 73:215:9462
Clo: ST7:July 73:1642:9826
TR:139:36

Morrone, Anthony
Vibrations of Stacks Supported on Steel Structures, ST12:Dec 69:2831:6965
Dsc: Ziva D. Jankou and Charles F. Reeves, ST9: Sept 70:1973:7567
Clo: ST4:Apr 71:1351:8015
TR:136:459

Morrow, Charles T.
Dsc, WW3:Aug 69:428:6709, of "Specifications and Design Relations", ST12:Dec 68:2751:6291

Morse, Roy W.
Dsc, TE4:Nov 69:705:6868, of "Transportation-Role for Civils", TE1:Feb 69:111:6414

Morse, Samuel A., Jr.
See Carl C. Winikka, SU1:May 74:1:10525

Morse, William L.
Stream Temperature Prediction Under Reduced Flow, HY6:June 72:1031:8962
TR:138:332

Moser, Alma P.
New Design Method for Corrugated Steel Pipe, with Reynold K. Watkins, CE:June 72:61
TR:138:291

Moses, Fred
Reliability-Based Structural Design, with John D. Stevenson, ST2:Feb 70:221:7072
Dsc: William G. Byers, ST11:Nov 70:2537:7644
Clo: ST6:June 71:1803:8159
TR:136:547
Reliability of Structural Systems, ST9:Sept 74:1813: 10780
Safety Analysis for Tall Buildings, State-of-Art Report 5, with Milik Tichy, TB:73:Ib-10-993
See Ronald L. Racicot, EM5:Oct 69:1291:6800
See Ronald L. Racicot, EM6:Dec 69:1454:6929
See John D. Stevenson, ST11:Nov 70:2409:7692
See Ronald L. Racicot, EM1:Feb 72:159:8725
See Garret N. Vanderplaats, ST3:Mar 72:671:8795
See Frank Rausche, SM9:Sept 72:917:9220

Moses, Robert
Ecology - Rage and Reason, PP3:July 72:331:9067
Dsc: Adolph J. Ackerman, PP3:July 73:412:9824
TR:139:41

Moshagen, Hermann
Density Front Between Sliding Layers, ISSF:Aug 72: 621

Mosher, Robert L.
See Orville T. Magoon, CEO-II:70:1089

Moskala, Jerzy M
Dsc, SA5:Oct 68:1038:6134, of "Filter Backwashing Tests and Upflow Equalization", SA1:Feb 68:129: 5813

Mosonyi, Emil
Dsc, with Bernd Schoppmann, HY6:Nov 68:1564: 6200, of " Vortex-Induced Oscillations at Low-Head Weirs", HY2:Nov 67:255:5597

Moss, Frank H., Jr.
See William R. Giessner, EE4:Aug 74:1013:10744

Moss, Marshall E.
Dsc, HY1:Jan 71:208:7783, of "Optimum Design of Complex Water Resource Projects", HY6:June 70: 1229:7320

Dsc, HY11:Nov 73:2165:10109, of "Information Content of Time-Variant Data", HY3:Mar 73:383:9615

Moss, Peter J.
See Nigel Cooke, ST8:Aug 74:1721:10697

Mosseri, Alberto
Dsc, with Carlos S. Ospina, PO1:Jan 71:255:7784, of "New Design Criteria for USBR Penstocks", PO1:Jan 70:129:7034

Mostafa, M. Gamal
Dsc, WW2:May 69:244:6528, of "Effects of Water Temperature on Bed-Load Movement", WW3:Aug 68:343:6083
Dsc, with Ramsay M. McDermid, HY10:Oct 71:1777:8407, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams", HY1:Jan 71:101:7786

Mota Oliveira, I. B.
Natural Flushing Ability in Tidal Inlets, 12CEC:71:1827

Motarjemi, Daryoush
Top-Supported Chimney Liners, EPCE:Aug 74:177

Mote, C. D., Jr.
Coupled, Nonconservative Stability-Finite Element, with Gerald Y. Matsumoto, EM3:June 72:595:8968
  TR:138:286
Nonconservative Stability by Finite Element, EM3:June 71:645:8204
  Dsc: Mark Levinson, EM6:Dec 71:1756:8551
  Clo: EM3:June 72:751:8924
  TR:137:614

Motheral, Joe G.
Dsc, CE:Apr 72:79, on Flood-Plain Development Must be Ecologically and Economically Sound, CE:Sept 71:81

Motta, V. F.
Rio Grande Bar - The Case History of a Lagoon Outlet into a Tideless Sea, 12CEC:71:1243

Motz, Louis H.
Surface Jet Model for Heated Discharges, with Barry A. Benedict, HY1:Jan 72:181:8669
  TR:138:136

Moughton, Frank A.
Response of Viscoelastically Restrained Beam, ST7:July 73:1607:9869
  TR:139:429

Moulton, Lyle K.
Estimation of Climatic Parameters for Frost Depth Prediction, with James H. Schaub, TE4:Nov 69:605:6872
  TR:136:190
Estimation of Pavement Surface Freezing Indices, with James H. Schaub, TE4:Nov 69:587:6871
  TR:136:150
See Roger K. Seals, SM4:Apr 72:311:8817

Moustafa, Saad E.
See Vitelmo V. Bertero, ST11:Nov 70:2267:7660
See Arthur R. Anderson, CE:Aug 71:55

Mowat, Dallas N.
See Colin D. Johnston, ST10:Oct 74:2053:10878

Moy, Lawrence M.
Career Guidance Programs for Minority Youth, with James E. Roembke, EI3:July 74:207:10691

Moyer, H. E.
See Russell L. Culp, CE:June 69:38

Moyer, Stanley
Thermal Discharges From Large Nuclear Plant, with Edward C. Raney, SA6:Dec 69:1131:6983
  Dsc: Robert R. Faddick, ST3:June 70:858:7313
  Clo: SA6:Dec 70:1444:7713
  TR:136:377

Moynihan, Daniel P.
Dsc, Special issue on Urban Development, CE:Jan 70:73
Dsc, CE:Jan 70:73, on A Black Civil Engineer Looks at His Profession, CE:Sept 69:93

Mozayeny, Bahram
Propagation of Flood Waves in Open Channels, with Charles C.S. Song, HY3:May 69:877:6561
  TR:135:70

Mozer, John D.
Time Dependent Behavior of Concrete Beams, with Kurt H. Gerstle and Leonard G. Tulin, ST3:Mar 70:597:7157
  Errata: ST2:Feb 71:722:7867
  TR:136:623
See Nicholas Mariani, ST4:Apr 73:757:9684

Mozingo, Ralph
Matrix Distribution, ST4:Apr 68:1043:5918
  Dsc: Gerald L. Goudreau, ST2:Feb 69:283:6373
  Clo: ST11:Nov 69:2511:6867
  TR:135:563

Mt. Pleasant, Russell C.
Implications of Nitrogenous BOD in Treatment Plant Design, with Warren Schlickenrieder, SA5:Oct 71:709:8469
  Dsc: Russell L. Culp, SA1:Feb 72:273:8682
  TR:138:82

Muck, Richard E.
Temperature Effects on Microbial Growth in CSTR's, with C. P. Leslie Grady, Jr., EE5:Oct 74:1147:10848

Muddappa, S.
See T. R. Chandrasekhara, HY4:July 69:1470:6641

Mueller, August C.
Pilot Study in Flood Plain Management, with John E. Hoffman, HYB:Aug 73:113

Mueller, Charles C.
See Dean M. Renner, IR3:Sept 74:255:10801

Mueller, Fred N.
See Reg A. Anderson, ECCD:72:273

Mueller, James A.
Gas Transfer Kinetics of Pure Oxygen System, with Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792
  TR:139:152
Dsc, EE3:June 73:383:9758, of "Oxygen Theory in Biological Treatment Plant Design", SA3:June 72:471:8938

Mueller, John A.
See Donald J. O'Connor, SA4:Aug 70:955:7470

Mufti, Aftab A.
Dsc, with Bharat L. Mehrotra, EM2:Apr 69:491:6484, of "Analysis of Plate Bending by Triangular Element", EM5:Oct 68:1089:6176
See Bharat L. Mehrotra, EM4:Aug 69:1021:6705
See Bharat L. Mehrotra, ST12:Dec 69:2863:6968
See Abdul Q. Khan, ST5:May 71:1646:8084

Muhlbauer, Karl C.
Behavior of Unsymmetrical-Continuous Folded Plates, with Fred W. Beaufait, ST12:Dec 69:2783:6958
  TR:136:443

Muir Wood, A. M.
Characteristics of Shingle Beaches: The Solution to Some Practical Problems, 12CEC:71:1059

Mukhamedov, A. M.
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, with Nikolai P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Mukhamedov, Y. S.
See A. M. Mukhamedov, ISSF:Aug 72:543

Mukherjee, Dipak
Dsc, HY4:Apr 73:692:9637, of "Conceptual Hydrologic Models for Urbanizing Basins", HY7: July 72:1205:9024

Mukherjee, Priya R.
Torsion, Bending and Shear in Prestressed Concrete, with Joseph Warwaruk, ST4:Apr 71:1063:8041
Dsc: Ganpat S. Pandit, ST12:Dec 71:2926:8557
Clo: ST7:July 72:1666:9003
TR:137:574

Mukhopadhyay, Madhujit
Strength at Diagonal Cracking under Uniform Load, TN: ST9:Sept 74:1989:10775
Dsc, ST4:Apr 71:1364:8015, of "Arch Action and Bond in Concrete Shear Failures", ST6:June 70: 1069:7338
Dsc, ST5:May 74:1145:10506, of "The Shear Strength of Reinforced Concrete Members", ST6: June 73:1091:9791

Muktabhant, Chai
See Edward W. Brand, PES:72:I-903

Mulawka, Stefan T.
See Benjamin H. Pringle, SA3:June 68:455:5970

Mulbarger, Michael C.
Mixed Liquor Solids Separation by Flotation, with Donald D. Huffman, SA4:Aug 70:861:7447
TR:136:983

Muller, Jean M.
Trends in Design and Construction Practice for Concrete Dams, ECCD:72:397

Mulligan, Kerry W.
Clean Water Management: Objective Decisions or Emotional Reaction, CWFE:Mar 71:1
Statewide Water Quality Control Management, CWFE:Mar 71:105

Mulligan, Thomas J.
See James A. Mueller, EE3:June 73:269:9792

Multer, Roger H.
Exact Nonlinear Model of Wave Generator, HY1:Jan 73:31:9467
TR:139:163

Mungan, Ihsan
Buckling Stress States of Cylindrical Shells, ST11: Nov 74:2289:10965

Munkeby, Einar
See Ivar Holand, ST10:Oct 71:2607:8411

Munns, Arthur R.
Memoir of, TR:137:1068

Munro, Donald
Seattle's Experiment in Free Transit, with Brian Krinbring, CE:Aug 74:86

Munse, William H.
Fatigue and Fracture, Summary Report, TB:73:II-18-818
See R. S. Fountain, ST12:Dec 68:2751:6291
See Peter C. Birkemoe, ST10:Oct 69:2011:6811
See Wallace W. Sanders, Jr., ST12:Dec 69:2763:6952
See Ramachandran Srinivasan, TB:73:II-18-814
See Rajasekharan S. Nair, ST2:Feb 74:351:10373

Munsey, Thomas E.
Diversion by Lake Piercing Snettisham Project, CE: Oct 69:48
TR:135:755

Munson, Edward D.
Houston Infiltration Abatement Program, EE5:Oct 73:729:10061
TR:139:399

Murad, Francis A.
Fatigue of Cover Plated Beams Under Varying Loads, with Conrad P. Heins, Jr., ST4:Apr 72:915: 8855
Dsc: Karl H. Frank and John W. Fisher, ST1:Jan 73:221:9462
Clo: ST7:July 73:1643:9826
TR:139:49

Mura Hari, Valupadas
Plane Jet on Sloping Floors Under Finite Submergence, HY9:Sept 73:1449:10027
Errata: HY1:Jan 74:257:10251
TR:139:400
Dsc, with P. Sreenivasulu, HY4:July 68:1153:6015, of "Determination of Efficient Open Channel Sections", HY6:Nov 67:103:5567
Dsc, HY8:Aug 73:1280:9895, of "Supercritical Flow Over Sills at Incipient Jump Conditions", HY10: Oct 72:1753:9235
See Nallamuthu Rajaratnam, HY6:June 74:731:10594

Muralikrishna, I. V.
See Harihar Raman, WAVES:Sept 74:817

Murarka, Ramesh P.
See Kaare Hoeg, GT3:Mar 74:349:10436

Murati, Efrahim
The Practice of Foundation Engineering in the Commonwealth of Puerto Rico, 4PCSM:71:II391

Murff, James D.
Low Velocity Penetration of Kaolin Clay, with Harry M. Coyle, SM5:May 73:375:9737
Dsc: Umesh Dayal and John H. Allen, GT1:Jan 74:85:10250
Clo: GT8:Aug 74:953:10695
TR:139:320
Prediction Method for Projectile Penetration, with Harry M. Goyle, TN: SM11:Nov 73:1033:10/48

Muris, Rodolfo Del Castillo
See Jose Luis Sanchez Bribiesca, HY11:Nov 73:2151: 10109

Murley, Keith A.
Irrigation Channel Structures, Victoria, Australia, IR2:June 70:131:7371
Dsc: Fred W. Blaisdell, IR2:June 71:325:8156; Gabriel Thamo, IR3:Sept 71:525:8346
Errata: IR1:Mar 71:218:7941
Clo: IR1:Mar 72:138:8750
TR:137:66

Murphree, Carl E.
Field Test of an X-ray Sediment-Construction Gage, with Gerald Bolton and J. Roger McHenry, HY2: Mar 68:515:5868
Dsc: John V. Skinner, HY1:Jan 69:531:6323; P. K. Bahattacharya, J. Glover and John F. Kennedy, HY1:Jan 69:6323; George Fleming, HY1:Jan 69:532:6988
Clo: HY1:Jan 70:255:6988
TR:135:896

Murphree, Edward L.
Airfield Pavement Systems, with Ronald W. Woodhead and Robert H. Wortman, TE3:Aug 71:389:8283
TR:137:1004
Experience With A Pol Environment, with John W. Melin, EC5:70:489
Experience with POL Environment, with John W. Melin, ST1:Jan 71:301:7835
TR:137:855
See Norman L. Scott, CO1:Mar 72:37:8758

Murphy, Benton S.
Dsc, CE:Dec 72:58, on Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), CE:June 72:56

Murphy, Donald J., Jr.
High Pressure Experiments on Soil and Rock, RM13:72:691

Murphy, Emmett J.
See James M. Murphy, WW2:May 70:251:7271
See James M. Keith, 12CEC:71:2195

Murphy, James M.
Harbor Study for San Nicholas Bay, Peru, with Emmett J. Murphy, WW2:May 70:251:7271
Dsc: Orville T. Magoon, WW1:Feb 71:218:7868; Basil W. Wilson, WW2:May 71:408:8086; Li-San Hwang and David Divoky, WW2:May 71:412:8086
TR:137:17

Murphy, Keith L.
Characterization of Mixing Aerated Lagoons, with Alfred Warren Wilson, EE5:Oct 74:1105:10865
Longitudinal Mixing in Spiral Flow Aeration Tanks, with Boris I. Boyko, SA2:Apr 70:211:7200
TR:136:1210

Murphy, Loyal W., III
Dsc, HY6:Nov 68:1589:6200, of "Experimental Examination of the Rational Method", HY6:Nov 67:353:5607

Murphy, Michael A.
Dsc, CE:Aug 72:64, on Engineering and Today's Social Problems, CE:Mar 72:64

Murphy, R. Sage
Waste-Induced Oxygen Uptake of an Alaskan Estuary, with Ann P. Miller, SA2:Apr 68:345:5908
TR:135:570
See Sherwood C. Reed, SA4:Aug 69:747:6747

Murphy, Thomas A.
Environmental Effects of Oil Pollution, SA3:June 71:361:8221
TR:137:998

Murphy, Vincent J.
See Robert V. Whitman, SM2:Mar 69:656:6429

Murray, David W.
Finite Element Large Deflection Analysis of Plates, with Edward L. Wilson, EM1:Feb 69:143:6398
Errata: EM6:Dec 69:1444:6929
TR:135:214
See Sundaramoorthy Rajasekaran, ST6:June 73:1003:9774
See Sundaramoorthy Rajasekaran, ST6:June 73:1025:9773
See Sundaramoorthy Rajasekaran, ST11:Nov 73:2315:10113
See Sundaramoorthy Rajasekaran, ST12:Dec 73:2423:10226
See Andrew Scanlon, ST9:Sept 74:1911:10833

Murray, John E.
Dsc, Political Contributions, CE:Nov 73:20

Murray, R. T.
Dsc, SM1:Jan 70:6989, of "Consolidation Under Constant Rates of Strain", SM2:Mar 69:519:6452
Dsc, SM12:Dec 72:1414:9394, of "Consolidation of Clay Layer in Two Dimensions", SM1:Jan 72:79:8674
Dsc, SM4:Apr 73:360:9639, of "Embankment Construction On Yielding Sea Bottom", SM7:July 72:727:9066

Murray, Stephen P.
Turbulence in Hurricane-Generated Coastal Currents, 12CEC:71:2051

Murray, Thomas M.
Analysis of Inelastic Suspension Structures, with Nicholas Willems, ST12:Dec 71:2791:8574
TR:137:965

Murray, Willard A.
Validity of Dupuit-Forchheimer Equation, with Peter L. Monkmeyer, HY9:Sept 73:1573:9997
Dsc: Abnish C. Amar, HY6:June 74:829:10567
TR:139:369

Murthy, Banavar
Dsc, HY6:June 71:877:8155, of "Chapter III. Sediment Measurement Techniques: Reservoir Deposits", HY12:Dec 70:2417:7781

Murthy, G. K. Narasimha
Buckling of Beams Supported by Pasternak Foundation, EM3:June 73:565:9812
Dsc: William E. Highter and Jerry E. Stoneking, EM3:June 74:615:10565
TR:139:347

Murthy, K. Keshava
Dsc, with N. Seshagiri, HY12:Dec 70:2628:7711, of "Linear Proportional Weirs", HY2:Feb 70:379:7062

Murthy, Kalayya Narayana
Optimal Design for Prescribed Buckling Loads, with Paul P. Christiano, ST11:Nov 74:2175:10912

Murthy, M. C.S.
See S. Narasimhan, HY5:May 73:847:9689

Murthy, M.V. Krishna
See P.A. Aswatha Narayana, EM1:Feb 72:71:8711

Murthy, Sridhara D.N.
Beam Columns on Elastic Foundations, with Archibald N. Sherbourne, TN: EM3:June 71:1033:8160
Nonlinear Bending of Elastic Plates of Variable Profile, with Archibald N. Sherbourne, EM2:Apr 74:251:10478
Transverse Anisotropy In Disks And Plates, with Archibald N. Sherbourne, TN: EM4:Aug 72:1005:9082
See Archibald N. Sherbourne, EM1:Feb 72:11:8694

Murthy, V. N. S.
Dsc, with S. P. Shrivastava, ST2:Feb 69:288:6373, of "Static and Dynamic Analysis of Pile Foundations", ST5:May 68:1077:5936

Murthy, V. R. Krishna
Turbulent Flow of Non-Newtonian Suspensions in Pipes, with Iraj Zandi, EM1:Feb 69:271:6427
Errata: EM1:Feb 70:88:7044
TR:135:152
Dsc, HY1:Jan 70:277:6988, of "A Theory for Heterogeneous Flow of Solids in Pipes", HY1:Jan 69:275:6354
Dsc, IR2:Mar 71:324:8156, of "One-Dimensional Infiltration into Layered Soils", IR2:June 70:121:7343

Murty, Madugula K.S.
See John B. Kennedy, ST11:Nov 72:2507:9348

Murty, T. S.
- See K. B. Yuen, CE13:72:I-215

Murty, V. V. N.
- Dsc, IR4:Dec 71:655:8553, of "Evaluating Watershed Management Alternativee", IR1:Mar 71:93:7952

Muschell, James E.
- Pile Tips and Barbs Prevent Ice Uplift, CE:June 70:41
  - TR:136:433

Muskie, Edmund S.
- See Duane L. Cronk, CE:Apr 71:40

Muspratt, Murray A.
- Behavior of Simply Supported Slabs, ST12:Dec 69:2703:6945
  - Dsc: H. A. Johansons, ST6:June 70:1256:7314; Robert E. Melchers, ST6:June 70:1257:7314; Manhar C. Thakkar and Jawalker K. Sridhar Rao, ST8:Aug 70:1837:7442; George I. N. Rozvany, ST3:Mar 71:969:7944
  - Clo: ST12:Dec 71:2881:8557
  - TR:137:9
- Relaxation Tests on Alloy Steel Bars, ST5:May 71:1533:8128
  - Dsc: Gian Mario Bo, ST2:Feb 72:520:8684
  - Clo: ST10:Oct 72:2313:9227
  - TR:137:629
- Urban Degradation and Building Systems, UP2:Sept 73:235:10003
  - TR:139:490
- Urban Transportation, TN: TE1:Feb 73:193:9529

Mustard, J. Neil
- Construction of Large Prestressed Concrete Girders, with Ram S. Ghosh, CO4:Dec 74:507:10994

Muthukumaran, S.
- End Effects in Models for Seepage Below Weirs, with V. C. Kulandaiswamy, HY3:Mar 72:541:8794
  - Dsc: S. H. Nagaraja and V. G. Palniltar, HY1:Jan 73:277:9459
  - Clo: HY7:July 73:1159:9823
  - TR:139:39
- See V. C. Kulandaiswamy, HY11:Nov 73:2131:10109

Muto, Kiyoshi
- Earthquake Loading Response, Theme Report, TB:73:Ib-6-151
- Earthquake-proof Design Gives Rise to First Japanese Skyscrapere, CE:Mar 71:49
  - TR:137:205
- Focal Points of the Studies in Our Design, TB:73:C-DM-217

Mutton, Bruce R.
- Stiffness Requirements for Lateral Bracing, with Nicholas S. Trahair, ST10:Oct 73:2167:10086
  - TR:139:492

Muzik, Ivan
- Laboratory Experiments with Surface Runoff, HY4:Apr 74:501:10463

Myer, Donald B.
- Cabin John Bridge - A Washington Landmark, PP3:July 73:353:9885
  - Errata: EI3:July 74:256:10633
  - TR:139:417

Myers, C. Kenneth
- An Evaluation of the Bachelor of Technology Program, CEE:Feb 74:1-239

Myers, Dennis E.
- Box Girder Model Studies, with Peter B. Cooper, ST12:Dec 69:2845:6966
  - Dsc: Graham M Groom, ST9:Sept 70:1975:7567
  - Clo: ST5:May 71:1635:8084
  - TR:136:449

Myers, Larry A.
- Four Win ASCE Zone Scholarships: Myers, CE:Sept 73:112

Myers, Lloyd E.
- Creating Hydrophobic Soil for Water Harvesting, with Gary W. Frasier, IR1:Mar 69:43:6436
  - TR:135:956
- Evaporation Reduction with Floating Granular Materials, with Gary W. Frasier, IR4:Dec 70:425:7741
  - TR:136:1272
- Opportunities for Water Salvage, CE:Jan 70:41
  - TR:136:19
- Sprayed Asphalt Pavements for Water Harvesting, with Gary W. Frasier and John R. Griggs, IR3:Sept 67:79:5413
  - TR:135:187
- Uniform Irrigation with Low-Pressure Trickle Systems, with Dale A. Bucks, IR3:Sept 72:341:9175
  - Dsc: Anthony L. Read and Milton F. Pietsch, IR3:Sept 73:403:9962
  - Clo: IR3:Sept 74:389:10771
  - TR:139:105
- See Keith R. Cooley, IAWM:72:27
- See Keith R. Cooley, IR3:Sept 73:353:9982

Myung, John I.
- Fracture Evaluation by the Borehole Logging Method, with R. W. Baltosser, RM13:72:31

Naaman, Antoine E.
- Networking Methods for Project Planning and Control, CO3:Sept 74:357:10814
- Probabilistic Analysis of Fiber-Reinforced Concrete, with Fred Moavenzadeh and Frederick J. McGarry, EM2:Apr 74:397:10491

Nabar, Sateesh J.
- Dsc, with Hans Gesund, ST5:May 73:953:9693, of "Shear Strength of Continuous Plates", ST5:May 72:961:8876

Nacci, Vito A.
- Structure of Deep Sea Clays, with Milton T. Huston, CEO-II:70:599
- See Lloyd Lewis, CEO-II:70:641
- See William E. Kelly, TN: GT3:Mar 74:383:10420

Nace, Raymond L.
- Dsc, HY22:Mar 69:770:6433, of "Beginning of Quantitative Hydrology", HY5:Sept 68:1299:6123

Nadeo, J. R.
- See E. P. Videla, 4PCSM:72:III85

Nadesamoorthy, T.
- Dsc, with Alexander Thomson, HY12:Dec 72:2234:9391, of "Spatially Varied Flow Over Side-Weirs", HY1:Jan 72:1:8627

Naftzger, Robert A.
- See Subrata K. Chakrabarti, WW3:Aug 74:189:10710

Nagai, Shoshichiro
- Pressures of Partial Standing Waves on Vertical Walls, WW3:Aug 68:273:6054
  - TR:135:839
- Pressures of Standing Waves on Vertical Wall, WW1:Feb 69:53:6408
  - Dsc: Yoshimi Goda, WW1:Feb 70:155:7049
  - Clo: WW3:Aug 70:727:7443
  - TR:136:34
- Relations Between the Run-Up and Overtopping of Waves, with Akira Takada, CE13:72:III-1975
- Researches on Sea-Walls, 12CEC:71:1431
- Studies on the Navigation Buoy for Strong Tidal Currents and Large Waves, with Kazuki Oda and Katsuhiko Kurata, CE13:72:III-1743

Nagaraja, S. H.
- Dsc, with V. G. Palniltar, HY1:Jan 73:277:9459, of "End Effects in Models for Seepage Below Weirs", HY3:Mar 72:541:8794

Nagataki, Shigeyoshi
Shrinkage and Shrinkage Restraints in Concrete Pavements, ST7:July 70:1333:7402
  Dsc: Bengt F. Friberg, ST5:May 71:1637:8084
  Clo: ST12:Dec 71:2883:8557
  TR:137:42

Naghdi, Amir K.
Cylindrical Shell Subject to Longitudinal Line Load, EM5:Oct 70:653:7617
  TR:136:1246

Nagler, Bruce E.
Dsc, EE3:June 74:776:10564, of "Federal Drinking Water Standards - Past, Present, and Future", EE4:Aug 73:469:9924

Nahavandi, Amir N.
Matrix Method for Analysis of Hydraulic Networks, with George V. Catanzaro, HY1:Jan 73:47:9472
  TR:139:170
Power Optimization for Prescribed Thermal Pollution, with Michael Pappas, PO3:July 71:631:8254
  Errata: PO1:June 72:178:8927
  TR:137:413

Nair, Keshavan
Pavement Evaluation by Wave Propagation Method, TE1:Feb 71:83:7900
  TR:137:178
See Chin-Yung Chang, GT74:June 74:269

Nair, Rajasekharan S.
High Strength Bolts Subject to Tension and Prying, with Peter C. Birkemoe and William H. Munse, ST2:Feb 74:351:10373

Nair, V. V. Damodaran
See Anestis S. Veletsos, GT3:Mar 74:225:10415
See Anestis S. Veletsos, TN: GT4:Apr 74:476:10454

Naish, Richard J.
See Andrew S. Balbiani, TE4:Nov 70:585:7672

Naito, Masaaki
See Takeichiro Takamatsu, EE4:Aug 74:883:10705

Najjar, Leonard J.
See Zdenek P. Bazant, ST9:Sept 73:1851:10006

Naka, Takeo
Banquet Remarks at the Tall Building Conference, TB:73:C-521
Design Limitations for Fatigue, State-of-Art Report 5, TB:73:II-18-771
See Minoru Wakabayashi, TB:73:II-16-525

Nakagawa, Kyoji
See C. Martin Duke, TB:73:Ib-6-255

Nakamichi, Hiroshi
Runoff Grouping for Detection of Change in Runoff, with Hubert J. Morel-Seytoux, IR2:June 71:275:8201
  TR:137:426

Nakamura, Shigehisa
Model Study of Transformation of Tsunamis in Urado Bay, with Yuichi Iwagaki and Yoshito Tsuchiya, 12CEC:71:2089

Nakamura, Yuji
See Ben Kato, EM4:Aug 72:891:9091

Nakao, Y.
See Y. Arita, CEO-II:70:461

Nalluswami, Marappatounder
Dsc, HY11:Nov 73:2141:10109, of "Hydrothermal Analysis by Finite Element Method", HY11:Nov 72:1983:9372
Dsc, PO2:Dec 74:215:10976, of "Transient Hydrothermal Analysis of Small Lakes", PO2:Nov 73:349:10150

Nam, Chung-Hyun
Finite Element Analysis of Concrete Beams, with Charles G. Salmon, ST12:Dec 74:2419:11016

Namikas, Daumantas
See George F. Horowitz, HY10:Oct 70:1965:7615

Nandakumaran, P.
See Jagdish Narain, SM4:July 69:969:6655

Napper, Lowell A.
Inspection Practices for Tall Buildings, TB:73:Ib-9-898

Narain, Jagdish
Model Study of Passive Pressure in Sand, with Swami Saran and P. Nandakumaran, SM4:July 69:969:6655
  Dsc: Peter L. Bransby, SM3:May 70:1061:7249; Ian K. Lee, SM3:May 70:1065:7249
  TR:136:708
Tensile Strength of Compacted Soils, TN: SM6:Nov 70:2185:7646

Narain, Jai P.
Swirling Shallow Submerged Turbulent Plumes, HY9:Sept 74:1229:10820

Narasimham, Sanivarapu V.
Dsc, with Karl Van Dalen, ST7:July 73:1653:9826, of "Ultimate Design of Hollow Thin-Walled Box Girders", ST7:July 72:1427:9021
Dsc, with Karl Van Dalen, ST8:Aug 74:1737:10697, of "Structural Response of Concrete Box Girder Bridge", ST10:Oct 73:2031:10069

Narasimhan, S.
Dsc, with Nanak V. Shah, HY9:Sept 71:1530:8345, of "Forces From Submerged Jets", HY11:Nov 70:2231:7675
Dsc, with M. C.S. Murthy, HY5:May 73:847:9689, of "Reattaching Flow Downstream of Leaf Gate", HY5:May 72:913:8919

Narasimhan, T. N.
See Paul A. Witherspoon, IR73:Aug 73:39

Narasimha Rao, Savaram
See Asuri Sridharan, TN: SM11:Nov 72:1279:9312

Narayana, P.A. Aswatha
Inviscid Shear Flow with Corner Eddies, with M.V. Krishna Murthy, EM1:Feb 72:71:8711
  TR:138:81

Narayanan, Rangaswami
Pressure Fluctuations in Reattaching Flow, with Alan J. Reynolds, HY6:Nov 68:1383:6212
  Dsc: David Ellis Wright, HY5:Sept 69:1746:6784; Mahmoud Faisal Rifai and Kenneth V.H. Smith, HY5:Sept 69:1747:6784
  Clo: HY4:Apr 70:1041:7189
  TR:135:952
Reattaching Flow Downstream of Leaf Gate, with Alan J. Reynolds, HY5:May 72:913:8919
  Dsc: M.H. Abdul Khander and K. Elango, HY5:May 73:845:9689; S. Narasimhan and M. C.S. Murthy, HY5:May 73:847:9689
  Clo: HY12:Dec 73:2383:10182
  TR:139:53
Theoretical Analysis of Flow Past Leaf Gate, HY6:June 72:993:8942
  Errata: HY4:Apr 73:691:9637
  TR:138:320

Narayanaswami, Ramakrishna
Dsc, with Chiyyarath V. Girijavallabhan, ST8:Aug 71:2152:8271, of "Earthquake Response of Arch Dams", ST11:Nov 70:2321:7681

See Chiyyarath V. Girijavallabhan, TN: ST1:Jan 72: 413:8619

Naruse, Tadaaki
Corrugated Metal Flumes, OIDS:72:219

Nash, Kevin L.
Diaphragm Wall Construction Techniques, CO4:Dec 74:605:11025
Stability of Trenches Filled with Fluids, CO4:Dec 74: 533:11006

Nasir, Ghulam A.
See Paul F. McManus, ST5:May 69:853:6546
See Charles G. Culver, ST4:Apr 71:1239:8072

Nasser, George D.
Book Review: Design Of Connections For Precast Prestressed Concrete, CE:Sept 73:38

Nasser, Jacques
Concrete Design Standards in Arab Countries, State-of-Art Report 6, TB:73:III-20-113
Use of Thin Shells for Tall Buildings, TB:73:Ia-3-643

Nasser, Mohammed Sameh
Experimental Study of Wave Transmission, with John A. McCorquodale, WW4:Nov 74:279:10928

Nassetta, Anthony F.
Structural Steel Tiered Building Frames, State-of-Art Report 3, TB:73:Ia-3-465

Nataraja, Mysore
Dsc, GT8:Aug 74:966:10695, of "Finite Element for Rock Joints and Interfaces", SM10:Oct 73:833: 10095

Natarajan, Murugesam
See A. Anthony Toprac, ST4:Apr 71:1203:8069

Natarajan, P.
See Mohammad Akram Gill, HY4:Apr 70:1086:7189

Natarajan, Pallessena R.
See Tamirisa V.S.R. Apparao, ST1:Jan 73:215:9462

Nath, John H.
Dynamics Of A Single Point Mooring In Deep Water, with Michael P. Felix, CEO-II:70:45
Dynamics of Fixed Towers in Deep-Water Random Waves, with Donald R.F. Harleman, WW4:Nov 69: 539:6924
  TR:136:340
Dynamics of Single Point Mooring in Deep Water, with Michael P. Felix, WW4:Nov 70:815:7700
  Dsc: Subrata K. Chakrabarti, WW3:Aug 71:588: 8272
  Clo: WW2:May 72:272:8863
  TR:137:163
Probability Distributions of Breaking Wave Heights, with Fred L. Ramsey, WAVES:Sept 74:379
Response of Vertical Cylinder to Random Waves, with Donald R.F. Harleman, WW2:May 70:373: 7285
  TR:136:907
Two-Point Mooring System for Spar Buoy, with Steve Neshyba, WW2:May 71:295:8115
  Dsc: Richard F. Dominguez, WW1:Feb 72:118: 8686
  Clo: WW1:Feb 73:129:9527
  TR:138:17
See Erich J. Plate, WW4:Nov 69:491:6904
See Tokuo Yamamoto, HYB:Aug 73:155
See Tokuo Yamamoto, WW1:Feb 74:35:10321
See Tokuo Yamamoto, WW2:May 74:155:10509
See Tokuo Yamamoto, WW4:Nov 74:345:10944

Nath, T. K.
See B. Sen, ST1:Jan 72:135:8644

Naudascher, Eduard
Flow-Induced Forces on Protruding Walls, with Frederick A. Locher, HY2:Feb 74:295:10347
Unified Analysis of Grid Turbulence, with Cesar Farell, EM2:Apr 70:121:7214
  TR:136:570
Dsc, HY2:Feb 74:327:10305, of "Stoplog Closure - Model Prototype Correlation", HY2:Feb 73:301: 9562

Nave, Henry J., Jr.
Construction Personnel Management, CO1:Jan 68:95: 5765
  Dsc: Paul F. Keim, CO1:July 69:137:6640; John D. Bristor, CO1:July 69:138:6640
  TR:135:1077

Nawy, Edward G.
Behavior of Fiber Glass Reinforced Concrete Beams, with Gary E. Neuwerth and Charles J. Phillips, ST9:Sept 71:2203:8353
  Dsc: Chithradurga S. Chandrasekhar, ST2:Feb 72: 538:8684; Ti Huang, ST2:Feb 72:540:8684; B. Vijaya Rangan, ST3:Mar 72:780:8752; Leon Ru-Liang Wang and Lap-Yan Chu, ST5:May 72: 1202:8861; Arthur F. Kirstein, ST5:May 72: 1206:8861; Filomeno N. Almeida, ST5:May 72: 1207:8861
  Clo: ST1:Jan 73:203:9462
  TR:137:1011
Civil Engineering Education for the 1970's, CE:Aug 71:70
  Dsc: Stephen C. Downs, CE:Feb 72:46
  TR:137:539
Crack Width Control in Reinforced Concrete Two-Way Slabs, with Glenn S. Orenstein, ST3:Mar 70: 701:7182
  Dsc: G. M. Mills and V. P. Mital, ST12:Dec 70: 2673:7714
  Clo: ST6:June 71:1804:8159
  TR:136:883
Offshore Jetport for New York-New Jersey Megalopolis, with Fred C. Koletty, TE2:May 72: 243:8891
  TR:138:179

Nayak, Gyan C.
Convenient Form Of Stress Invariants For Plasticity, with Olgierd C. Zienkiewicz, TN: ST4:Apr 72:949: 8838
Dsc, ST6:June 69:1372:6583, of "Influence Surfaces for Continuous Plates", ST1:Jan 68:211:5755

Nayak, Irvathur Vasudeva
Equilibrium Profiles of Model Beaches, 12CEC:71: 1321
See Jade Dattatri, WW4:Nov 74:399:10903

Nayak, Narayan
Dsc, SM10:Oct 71:1507:8410, of "Aging Effects on Swell Potential of Compacted Clays", SM3:Mar 71: 529:7951
Dsc, SM12:Dec 72:1425:9394, of "Subsurface Investigations for Design and Construction of Foundations of Buildings: Part I", SM5:May 72: 481:8917

Naykki, Pertti
Dsc, CO1:July 73:224:9822, of "Competitive Bidding: The Probability of Winning", CO2:Sept 72:313: 9218

Naylor, D. V.
See J. R. Busch, IRS:Sept 72:45

Naylor, David J.
Dsc, with D. Barrie Jones, SM12:Dec 73:1170:10184, of "Constructional Deformations in Rockfill Dam", SM2:Feb 73:139:9560
Dsc, GT8:Aug 74:964:10695, of "Reinforced Earth Retaining Walls", SM10:Oct 73:745:10068

Nazare, Charles V.
See Alfred E. Caswell, EPCE:Aug 74:587

Nazarian, Hagop N.
Water Well Design for Earthquake-Induced Motions, PO2:Nov 73:377:10176
TR:139:546

Nazario, Francisco
See Lincoln de A. Queiroz, 4PCSM:71:II293

Neal, John A.
Professionalism, CE:Sept 70:105

Neale, Kenneth W.
Limit Analysis of Plates Under Combined Loads, with Niels C. Lind, EM5:Oct 70:711:7610
TR:136:1151
Plastic Buckling of Shells Under Cyclic Loading, with John Schroeder, EM1:Feb 74:63:10345

Neale, Lawrence C.
Chesapeake Bay Model Study for Calvert Cliffs, PO4:Dec 71:827:8602
TR:137:966
Model Versus Field Data on Thermal Plumes from Power Stations, with George E. Hecker, ISSF:Aug 72:399
See Robert J. McAllister, PO3:June 70:289:7319

Nece, Ronald E.
Boundary Shear Stress in Rivers and Estuaries, with Dungan J. Smith, WW2:May 70:335:7280
TR:136:871
Flushing Characteristics of Small-Boat Marinas, with Eugene P. Richey, CE13:72:III-2489
Hydraulics of a Gravel-Core Fish Screen, with Milo C. Bell, HYB:Aug 73:31
Register of Selective Withdrawal Works in United States, Task Committee on Outlet Works, Committee on Hydraulic Structures, HY9:Sept 70:1841:7533
TR:136:1141
Dsc, HY7:July 70:1644:7384, of "Effect of Intake Elevation and Operation on Water Temperature", HY6:Nov 69:2081:6917

Needham, F. H.
Dsc, ST6:June 69:1376:6583, of "Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steel of Joint ASCE-AASHO Committee on Steel Flexural Members", ST9:Sept 68:2033:6112

Needham, Kenneth
See Richard E. Speece, SA4:Aug 71:433:8278

Needles, Enoch R.
See Thomas R. Camp, CE:Feb 72:54

Neely, Doss
Using Aerial Photos to Locate Granular Fill Material, with Abdel-Hady Mohamed, CO2:Oct 68:181:6166
Errata: CO1:June 70:82:7308

Neely, Gerald A.
Demonstration Sanitary Landfill in Kansas City, Kans., with Nicholas S. Artz, CE:Oct 72:72
TR:138:468

Neely, William James
Failure Loads of Vertical Anchor Plates in Sand, with John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Dsc: Gopal Ranjan, GT8:Aug 74:954:10695
TR:139:394

Neff, D. J.
Watershed Vegetation Management-A Wildlife Habitat Opportunity, with B. Bristow, IAWM:72:347

Neff, Thomas L.
Qualitative Factors for Evaluating Stability, RM14:73:311

Negoita, A.
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, with Ion G. Pop, TB:73:III-21-247

Neill, Charles R.
River Bed Transport Related to Meander Migration Rates, TN: WW4:Nov 71:783:8491
Dsc, HY1:Jan 69:560:6323, of "Effects of Density Ratio on Sedimentary Similitude", HY3:May 68:705:5948
Dsc, HY3:May 69:1092:6524, of "Design of Stable Channels in Alluvial Materials", HY2:Nov 68:1399:6217
Dsc, HY1:Jan 70:297:6988, of "Formation of Flood Plain Lands", HY3:May 69:981:6574
Dsc, HY4:Apr 70:1085:7189, of "Instability of Flat Bed in Alluvial Channels", HY5:Sept 69:1545:6770
Dsc, HY5:May 70:1224:7248, of " Movement of Sand in Tunnels", HY6:Nov 69:1835:6880
Dsc, HY5:May 70:1224:7248, of "Local Scour Around Bridge Piers", HY6:Nov 69:1919:6891
Dsc, HY1:Jan 72:303:8620, of "Sampling Procedures for Coarse Fluvial Sediments", HY8:Aug 71:1165:8279
Dsc, HY5:May 73:860:9689, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Neilson, Frank M.
See Carl J. Huval, HY8:Aug 70:1754:7439

Nelson, Arthur H.
See Oral Buyukozturk, EM3:June 72:581:8970

Nelson, Austin W.
See Denny S. Parker, SA2:Apr 72:305:8810

Nelson, Carl E.
Carl E. Nelson Named Manager of Field Services, CE:July 71:75
Professional Approach to Marketing Engineering Services, CEWAU:74:131

Nelson, Chester A.
See Robert E. Glover, HY11:Nov 74:1519:10934

Nelson, Frederick C.
Dsc, ST2:Feb 70:439:7047, of "Structural Dampers", ST8:Aug 69:1661:6725

Nelson, Harold E.
Goal Oriented Systems Approach to Building Fire Safety, TB:73:Ib-8-692

Nelson, Harold L.
Heavy Prestressed Girders Cast in Segments, CE:Feb 70:75
TR:136:210

Nelson, Harvey R., Jr.
See Neil W. Schild, IR3:Sept 72:347:9211

Nelson, Ivan
See Melvin L. Baron, EM6:Dec 73:1181:10210

Nelson, James C.
Earth Tiebacks Support Excavations 112 Ft. Deep, CE:Nov 73:40
TR:139:480

Nelson, Jerome S.
See Tsvi Meidav, OIDS:72:257

Nelson, John D.
Dsc, SM10:Oct 71:1497:8410, of "Apollo 11: Soil Mechanics Results", SM6:Nov 70:2045:7704
See Za-Chieh Moh, PES:72:I-243

Nelson, Kenneth E.
Computer Model for Highway Noise Prediction, with Joseph L. Schofer, TE2:May 74:325:10517

Nelson, Mark F.
Dsc, with Jorge Hildago, ST12:Dec 72:2820:9395, of "Algorithm for Matrix Bandwidth Reduction", ST1: Jan 72:203:8636
See William Weaver, Jr., EM6:Dec 68:1455:6293
See Robert V. Whitman, SM11:Nov 73:997:10175

Nelson, Mark L.
Flood Regulation by Columbia Treaty Projects, with David M. Rockwood, HY1:Jan 71:143:7798
  Dsc: A. H. Blyskowski, HY9:Sept 71:1565:8345; Robert L. McFall, HY9:Sept 71:1567:8345
  Clo: HY5:May 72:950:8859
  TR:137:615
Memoir of, TR:138:637

Nelson, Mark S.
CE People: Roads Come To Remote Areas Of Lesotho Thanks To Young CE, CE:Nov 73:87

Nelson, Michael D.
Oxygen Activated Sludge Selected by Philadelphia, CE:Apr 74:42
See Carmen F. Guarino, EE4:Aug 74:919:10722

Nelson, Myron K.
Water Supply and Waste Water Districts in Suburbia, with R. L. Chandler, SA2:Apr 70:593:7247
  TR:136:1190

Nelson, Paul, Jr.
Mechanical Interpretations for Invariant Imbedding, EM5:Oct 73:957:10094
  TR:139:486

Nelson, Richard B.
See Bruno Atzori, EM3:June 74:599:10620

Nelson, Robert A.
Origin, Purpose, and Status of Project, TE4:Nov 70: 439:7655
  TR:136:1244

Nelson, Sheldon D.
See Sterling Davis, IR1:Mar 70:47:7135

Nemec, Joseph, Jr.
National Environmental Policy Act of 1969 and Engineering Curriculum, CE:Mar 73:64
  TR:139:117
See Christian S. Young, TE4:Nov 74:933:10937

Nemerow, Nelson L.
Economics from the Viewpoint of Industry, CWFE: Mar 71:279
Total Dollar Benefit of Water Pollution Control, with Robert C. Faro, SA3:June 70:665:7323
  Dsc: Bruce Barker and Gerald D. Seinwill, SA1: Feb 71:124:7865
  Errata: SA5:Oct 70:1292:7569
  Clo: SA5:Oct 71:763:8409
  TR:136:1220

Nemteanu, Mihai
See Daniel W. Halpin, CO2:June 74:141:10600

Neogy, Birendra N.
Brink Depth for Trapezoidal Broad-Crested Weir, HY12:Dec 72:2171:9427
  Dsc: A. L. Swami and A. K.M. Jilani, HY1:Jan 74:235:10251
  TR:139:144

Neshyba, Steve
See John H. Nath, WW2:May 71:295:8115

Netch, George
Newtown Creek Docking Facilities, CE:June 69:64
  TR:135:469

Nethercot, David A.
Buckling of Laterally or Torsionally Restrained Beams, EM4:Aug 73:773:9903
  Errata: EM3:June 74:618:10565
  TR:139:376
Inelastic Buckling of Monosymmetric I-Beams, TN: ST7:July 73:1696:9828
Torsional-Flexural Buckling Effects in Portal Frames, TN: ST9:Sept 74:1985:10775
Dsc, ST3:Mar 71:1000:7944, of "Experimental Study of Flexural-Torsional Buckling", ST7:July 70:1481: 7414
Dsc, EM1:Feb 72:274:8680, of "Lateral Stability of Nonuniform Cantilevers", EM3:June 71:673:8172
Dsc, EM1:Feb 72:280:8680, of "Inelastic Flexural-Torsional Buckling", EM4:Aug 71:1103:8294
Dsc, EM1:Feb 74:136:10303, of "Inelastic Lateral Buckling of Restrained Beams", EM2:Apr 73:343: 9666

Nettleton, Douglas A.
Dsc, ST2:Feb 71:739, of "Analysis of Curved Girder Bridges", ST8:Aug 70:1657:7462

Neu, Hans A.
Transverse Flow in a River due to Earth's Rotation, HY5:Sept 67:149:5434
  TR:135:348

Neubert, Vernon H.
Lumped Parameter Beams Based on Impedance Methods, with Hong T. Hahn and Hae Lee, EM1: Feb 70:69:7099
  TR:136:544

Neufeld, Ronald D.
Dsc, with Edward R. Hermann, EE6:Dec 73:966: 10180, of "Effects of Iron on Activated Sludge Treatment", EE2:Apr 73:135:9679

Neuhaus & Taylor
2001 Bryan Street Tower, TB:73:C-P-282

Neuman, Shlomo P.
Saturated-Unsaturated Seepage by Finite Elements, HY12:Dec 73:2233:10201
  TR:139:474
Variational Principles for Flow in Porous Media, with Paul A. Witherspoon, EM2:Apr 71:359:8023
  TR:137:139

Neuman, W. R.
See Kip Payne, HY4:July 69:1163:6665

Neumann, Edward S.
Helicopter Emergency Medical Care Delivery Systems, with Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
  TR:139:532

Neuwerth, Gary E.
See Edward G. Nawy, ST9:Sept 71:2203:8353

Neuzil, Dennis R.
Dsc, CE:Oct 73:34, on "Quo Vadis, ASCE?", CE: June 73:59
See William S. Gaither, CE:Dec 70:35

Neville, Adam M.
Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, TB:73: III-25-765

Newbold, J. Denis
Oxygen Depletion Model for Cayuga Lake, with James A. Liggett, EE1:Feb 74:41:10346
  Dsc: David A. Bella, EE6:Dec 74:1293:10971

Newby, Frank
Stiffness Related to Nonstructural Elements, TB:73: Ia-12-1141

Newlin, David E.
See Wai F. Chen, TN: ST9:Sept 73:1978:9968

Newman, Alvin
Student Development, Guidance and Minorities in Civil Engineering, CEE:Feb 74:2-191

Newman, F. Barry
See William M. Kirkpatrick, TN: GT2:Feb 74:190:10310

Newman, Henry L.
Land Use Planning, ASC73:Mar 73:87

Newman, Howard S.
See David A. Novick, CE:Jan 72:45

Newman, James E.
Photogrammetric Surveying in Highway Programs, SU2:Nov 71:297:8539
Errata: SU1:Sept 73:134:9965
TR:139:77

Newman, James Roy
Memoir of, TR:136:1359

Newman, Malcolm
See Irving U. Ojalvo, EM5:Oct 68:1067:6156

Newmark, Nathan M.
External Blast, State-of-Art Report 7, TB:73:Ib-8-661
Seismic Design Spectra for Nuclear Power Plants, with John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142
Dsc: Allen S. Bartu, PO2:Dec 74:213:10976
TR:139:442
See John D. Haltiwanger, CEE:Feb 74:1-149

Newville, Jack R.
Dsc, Development Building: The Team Approach, CE:Dec 72:93

Neyer, Jerome C.
Dsc, with Sachinder N. Gupta, SM6:Nov 70:2138:7643, of "Precompression for Improving Foundation Soils", SM1:Jan 70:111:7020
Dsc, with Sachinder N. Gupta, PISST:71:87, of "Precompression for Improving Foundation Soils", PISST:71:53

Ng, C. P.
See Amruthur S. Ramamurthy, EM4:Aug 73:755:9905

Ng, Simon F.
Empirical Frequency Analysis of Bridge Deck Slabs, with Garnesh G. Kulkarni, TN: ST4:Apr 74:842:10456

Nguyen-Thanh-Long
See Francois Schlosser, CO3:Sept 74:223:10800

Ni, Chi-Mou
Finite Earthquake-Response of Inelastic Structure, with Lawrence H.N. Lee, EM6:Dec 72:1529:9429
TR:138:549

Nibler, John C.
Changing Crop Priorities and Drainage Requirements, with Royal H. Brooks, IRS:Sept 72:25

Nichol, John M.
See Allen L. Ely, WW4:Nov 73:415:10137

Nicholls, Harry R.
See John F. Wiss, DRS:74, 80pp.

Nicholls, Jack I.
Dsc, with Clayton E. Lofthus, ST11:Nov 71:2769:8485, of "Collapse Load Analysis Using Linear Programming", ST5:May 71:1561:8127

Nicholls, Robert L.
Design and Testing of Cone and Hypar Footings, with Mohammad V. Izadi, SM1:Jan 68:47:5732
TR:135:612

Nichols, M. Starr
See Neal E. Minshall, SA2:Apr 70:513:7238

Nichols, Marvin Curtis
Memoir of, TR:135:1136

Nichols, Maynard M.
Coastal Processes from Space Photography, 12CEC:71:641
Sequential Photography of Coastal Water, CE13:72:II-747

Nicholson, Horace B.
Memoir of, TR:139:569

Nicholson, J.
See Johan A. Zwamborn, CE13:72:I-75

Nickell, Robert E.
Direct Integration Methods in Structural Dynamics, EM2:Apr 73:303:9652
TR:139:290

Nicklen, Robert R.
See Charles A. McCullough, SA1:Feb 71:81:7927

Nickson, Ronald G.
Dsc, CE:May 74:20, on Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, CE:Nov 73:79

Nicol, Kenneth J.
See Earl O. Heady, HY10:Oct 73:1795:10074

Nicolaescu, Ion
Automatic Cutback Furrow Irrigation System Design, with E. Gordon Kruse, IR3:Sept 71:343:8358
TR:137:572

Nicolaou, Stavros N.
Berth Planning by Evaluation of Congestion and Cost, WW4:Nov 67:107:5577
Dsc: John D. Mettam, WW3:Aug 68:378:6053; Alvin S. Goodman and Austin E. Brant, Jr., WW4:Nov 68:513:6204
Clo: WW3:Aug 69:419:6709
TR:135:518

Nicoletti, Joseph P.
External 'Shell' Stops Soil Movement and Saves Tunnel, with James M. Keith, CE:Apr 69:72
Dsc: Travis Smith and Raymond H. Forsyth, CE:Aug 69:62
TR:135:542

Nieberlein, Vernon A.
See Bernard Steverding, TE3:Aug 74:583:10726

Nieble, Carlos M.
An Interesting Case of Stability in a Rock Fill Slope, with Paulo T. Cruz, 4PCSM:71:II167

Niece, James E.
See Dennis W. Weeter, EPCE:Aug 74:633
See Anthony M. Di Gioia, Jr., CE:Dec 74:64

Niedenfuhr, Francis W.
See Christopher C. Lo, TN: EM4:Aug 70:535:7444

Nielsen, Arne Hasle
See Per Roed Jakobsen, 12CEC:71:1513

Nielsen, E. F.
Containerport Engineering for the Port of Oakland, CE:Jan 69:40
TR:135:37

Nielsen, George V.
Dsc, HY1:Jan 70:278:6988, of "Control of Transient Free-Surface Flow", HY1:Jan 69:347:6360

Nielsen, John P.
Implications of Using Layered Theory in Pavement Design, TE4:Nov 70:495:7662
  Dsc: Richard G. Ahlvin, Yu Tang Chou and Harry H. Ulery, Jr., TE4:Nov 71:711:8486
  TR:137:844

Nielsen, N. Norby
See Tsuruzo Takeda, ST2:Dec 70:2557:7759

Nieves, J.
See Harold W. Conner, CE:Nov 69:47

Nigam, Navin C.
Yielding in Framed Structures Under Dynamic Loads, EM5:Oct 70:687:7613
  Errata: EM5:Oct 71:1558:8406
  TR:136:1125

Nihoul, Jacques C.J.
A Simple Model of Entrainment and Thermocline Erosion, ISSF:Aug 72:627

Nikai, Sei N.
See W. H. Arch, TB:73:Ia-4-823

Nikhed, Rajendra P.
See James G. MacGregor, ST11:Nov 72:2351:9351

Nikitin, I. K.
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, with V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635

Niles, Thomas M.
Priorities: Engineering education; ASCE; Pollution Control, CE:July 70:60
  Dsc: Lawrence P. Kolb, CE:Nov 70:61
  TR:135:1106

Nilson, Arthur H.
Finite Element Analysis of Metal Deck Shear Diaphragms, with Albert R. Ammar, ST4:Apr 74:711:10467
Dsc, ST12:Dec 69:3004:6932, of "Buckling of Light-Gage Corrugated Metal Shear Diaphragms", ST7:July 69:1497:6683
See Tony C.Y. Liu, ST5:May 72:1025:8905

Nimr, Ahmed El
Dsc, HY2:Feb 72:402:8681, of "Vertical Recharge of Unconfined Aquifer", HY7:July 71:1017:8257

Nir, Dov
See Nathan Buras, IR1:Mar 73:43:9586

Nisbet, James W.
Dsc, WW4:Nov 71:761:8488, of "Framework Plan for Ohio Basin Navigation to 2020", WW3:Aug 70:665:7473

Nishida, Susumu
See Hiroshi Yoshida, TN: ST7:July 73:1713:9828

Nishikawa, Fujio
See Toshiharu Hisatoku, TB:73:Ia-3-501

Nishiki, Tatsuo
Overloads on Japan's 130 mph Railroad Structures, with Shunta Shiraishi, ST6:June 70:1017:7325
  Clo: ST4:Apr 71:1363:8015
  TR:136:945
Structural-Design Innovations in Japanese National Railways, with Hidehiko Abe and Yoshio Ozaka, CE:Nov 69:60
  TR:135:971

Nishino, Fumio
See Chitti Vijakkhana, ST3:Mar 74:645:10433
See Chesada Kasemset, EM5:Oct 74:965:10881

Nitzsche, Ray N.
Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, with Robert E. Miller, EM4:Aug 72:867:9130
  Errata: EM3:June 73:601:9759
  TR:139:87

Nixon, Paul R.
Coastal California Evapotranspiration Frequencies, with G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
  TR:138:279

Niyogi, Sanat Kumar
Bearing Strength of Concrete--Geometric Variations, ST7:July 73:1471:9853
  Errata: ST7:July 74:1530:10637
  TR:139:402
Concrete Bearing Strength—Support, Mix, Size Effect, ST8:Aug 74:1685:10765

Nizlek, Martin C.
Learning Games: The Transportation Planning Game, with Frederick J. Wegmann, TE1:Feb 74:41:10339

Nnaji, Soronadi
Flow Resistance from Cylindrical Roughness, with I-pai Wu, IR1:Mar 73:15:9612
  Dsc: Theodor S. Strelkoff and Delmar D. Fangmeier, IR3:Sept 74:390:10771
  TR:139:259
Dsc, IR2:June 71:340:8156, of "Optimal Design of Furrow Length of Surface Irrigation", IR3:Sept 70:319:7543

Noakes, Edward H.
Architectural Barriers and the Problems of the Handicapped, MTI:May 72:51

Nobari, Esmail S.
Movements in Dams Due to Reservoir Filling, with James M. Duncan, PES:72:I-797

Nobili, Fiorenzo
See Pericle Quadrio Curzio, SUSS:July 73:79

Noblanc, Alain
Perturbation Analysis of Two-Phase Infiltration, with Hubert J. Morel-Seytoux, HY9:Sept 72:1527:9186
  Dsc: E. G. Youngs, HY7:July 73:1185:9823; Charles B. England, Chin-lien Yen and Robert M. Dixon, HY9:Sept 73:1630:9961; Willem F. Brutsaert, HY9:Sept 73:1632:9961
  Clo: HY4:Apr 74:598:10441
  TR:139:88

Noble, H. Morgan
Wave-Maze Floating Breakwater, CEO-II:70:929

Noble, Herbert L
Residual Strength and Landslides in Clay and Shale, SM9:Sept 73:705:10023
  Dsc: Richard J. Chandler, GT5:May 74:560:10504; Yudhbir, GT8:Aug 74:956:10695
  TR:139:413

Noble, Ronald M.
Deterministic and Probabilistic Design Wave Approach to Engineering Application, with Richard B. Dornhelm, WAVES:Sept 74:856

Noda, Edward K.
Equilibrium Beach Profile Scale-Model Relationship, WW4:Nov 72:511:9367
  Dsc: John J. Earattupuzha and Harihar Raman, WW3:Aug 73:409:9897
  TR:139:68
Fourier Analysis of Transient Wave System, WW4:Nov 71:663:8535
  TR:137:952
Rip-Currents, CE13:72:I-653
Water Waves Generated by Landslides, WW4:Nov 70:835:7699
  TR:137:846

See Robert L. Wiegel, WW2:May 70:307:7279
See Anat Arbhabhirama, HY12:Dec 70:2674:7711

Noland, Jimmy L.
Formulation Of Decision Logic Tables, with Chuan C. Feng, EC5:70:731
Formulation of Decision Logic Tables, with Chuan C. Feng, ST1:Jan 71:439:7855
Dsc: Surendra K. Goel, ST12:Dec 71:2892:8557

Noma, Thoshifumi
See Juichi Kato, WW3:Aug 69:337:6733

Nonnenman, Kenneth W.
Drafting Transformed by Plotter, Computer and Digitizer, CE:Feb 74:48

Noonan, Mark E.
See William R. Giessner, EE4:Aug 74:1013:10744

Noor, Ahmed K.
Multiple Configuration Analysis Via Mixed Method, TN: ST9:Sept 74:1991:10775
Noncircular Cylinder Vibration by Multilocal Method, EM2:Apr 73:389:9677
TR:139:308
Nonlinear Analysis of Space Trusses, ST3:Mar 74:533:10419
Dsc, EM1:Feb 72:265:8680, of "Free Vibration of Hyperbolic Cooling Towers", EM2:Apr 71:253:8037

Noorany, Iraj
Effect of Sampling on Compressibility of Soft Clay, with Iraj Poormand, TN: SM12:Dec 73:1184:10189
Engineering Properties of Sea Floor Sediments from La Jolla Canyon, with Robert A. Zinser, CE13:72:II-1559
Engineering Properties of Submarine Soils: State-of-the Art Review, with Stanley F. Gizienski, SM5:Sept 70:1735:7536
Dsc: Adolph G. Altschaeffl and Philip J. Valent, SM5:May 71:820:8083; Michel Ph. Gambin, SM6:June 71:937:8158
Clo: SM2:Feb 72:219:8683
TR:137:121

Norco, J. E.
Modeling Alternative Vehicle Related Pollutant Emission Control Strategies in Chicago, with K. G. Croke and R. E. Wendell, UT73:May 73:89

Nordby, Gene M.
See Billy J. Harris, ST4:Apr 69:585:6494

Nordin, Carl F.
See Ronald E. Rathbun, HY9:Sept 71:1305:8364
See Harvey E. Jobson, HY9:Sept 71:1541:8345

Nordlund, Reymond L.
Collapse of Fargo Grain Elevator, with Don U. Deere, SM2:Mar 70:585:7172
Errata: SM1:Jan 71:257:7785
TR:136:847

Nordmo, Kyrre P.
Dsc, SM7:July 73:566:9825, of "Subsurface Investigation for Design and Construction of Buildings: Part II", SM6:June 72:557:8944

Norling, Leonard T.
See Carl R. Wilder, SM4:July 70:1476:7385

Normann, Jerome M.
Dsc, HY8:Aug 71:1243:8267, of "Effects of Helix Angle on Flow in Corrugated Pipes", HY11:Nov 70:2253:7685

Norrie, Kenneth P.
Licensure of Planners and Its Effect on Civil Engineers, PP1:Oct 71:161:8463
TR:137:992

Norris, Charles H.
New Honorary Members: 1974, CE:Oct 74:93

Norris, Dan P.
See Joseph A. Cotteral, Jr., SA4:Aug 69:715:6735
See Denny S. Parker, SA2:Apr 72:305:8810

Norris, Robert A.
See Michael D. Disko, 12CEC:71:1847

North, Wheeler J.
Effects of Wastewaters on Marine Biota, CE13:72:III-2099

Norton, James
Jim Norton, CE Advertising Manager, Retires, CE:Nov 73:83

Norton, Paul Willard
Memoir of, TR:135:1137

Norum, Donald I.
Infiltration Equations from Rate-of-Advance Data, with Don M. Gray, IR2:June 70:111:7331
TR:136:696
Dsc, IR4:Dec 73:513:10183, of "Shape Factors in Irrigation Water Advance Equation", IR3:Sept 72:443:9212

Noskiewicz, Ted M.
See John V. Bartlett, CO2:Nov 71:241:8498

Notess, Charles B.
Demand Activated Transportation for The Elderly, with Robert E. Paaswell, TE4:Nov 72:807:9320
TR:138:456
Life-Style Factors Behind Modal Choice, TE3:Aug 73:513:9953
TR:139:439
Shopping and Work Trips in the Black Ghetto, UP1:July 72:71:9039
TR:138:325
Social Factors in Health Care Systems Planning, with George C. Lee, PP1:Jan 73:59:9493
TR:139:123
Trends in Urban Transportation, TE3:Aug 73:655:9955
TR:139:446
Dsc, CE:May 72:40, on Anti-Technology--The New Myth, CE:Jan 72:68

Nouel, Manuel
See Richard B. Dornhelm, PO1:June 72:29:8975

Novak, James R.
Major Research Studies on Signs, Lights and Guardrails, with Krieger W. Henderson, Jr., TE4:Nov 70:523:7663
TR:136:1263

Novak, John T.
Influence of Free CO_2 on Q_{10} for Chlorella vulgaris, with H. David Sanders, TN: EE3:June 74:798:10571

Novak, Milos
Aeroelastic Galloping of Prismatic Bodies, EM1:Feb 69:115:6394
TR:135:190
Aeroelastic Instability of Prisms in Turbulent Flow, with Alan G. Davenport, EM1:Feb 70:17:7076
TR:136:495
Data Reduction from Nonlinear Response Curves, EM4:Aug 71:1187:8300
TR:137:715
Effect of Turbulence on Galloping Instability, with Hiroshi Tanaka, EM1:Feb 74:27:10338
Galloping Oscillations of Prismatic Structures, EM1:Feb 72:27:8692
TR:138:50
Prediction of Footing Vibrations, SM3:May 70:837:7268
TR:136:923

Vertical Vibration of Embedded Footings, with Youpele O. Beredugo, SM12:Dec 72:1291:9412
  Errata: SM10:Oct 73:896:10038
  TR:139:188
Dsc, with Alan G. Davenport, EM1:Feb 69:291:6371, of "Aerodynamic Instability of Suspension Bridges", EM2:Apr 68:489:5889
Dsc, EM2:Apr 70:186:7188, of "Finite Dynamic Model for Infinite Media", EM4:Aug 69:859:6719
Dsc, GT5:May 74:562:10504, of "Response of Embedded Footings to Vertical Vibrations", SM10: Oct 73:863:10092

Novick, David A.
The Civil Engineer in the Multidisciplinary Design Team, PP2:Apr 72:221:8826
  Dsc: John F. Hoban, PP1:Jan 73:126:9460; Donald R. Strombom, PP1:Jan 73:128:9460
  TR:138:277
The Civil Engineer of the Future - A Renaissance Man, with Sheldon Schumacher, PP1:Jan 73:9:9489
  Dsc: Donald R. Goodkind, PP3:July 73:416:9824; Merle H. Goedjen, PP4:Oct 73:537:10040; Louise Greenebaum, EI1:Jan 74:81:10252; Eben Vey, EI1:Jan 74:82:10252
  Clo: EI4:Oct 74:359:10835
  TR:139:93
Practitioners Teach Students Art of Highway Engineering, with Howard S. Newman and Eben Vey, CE:Jan 72:45
  Dsc: L. Lawrence Lewis, CE:Nov 73:24
  TR:138:16
Promising Trends in Interchange between Education and Practice, CEE:Feb 74:2-180
See James W. McPhillips, PP2:Apr 72:181:8797
See Eben Vey, CEE:Feb 74:1-927
See Edward J. Rhomberg, CEE:Feb 74:1-955

Nowatzki, Edward A.
A Theoretical Assessment of the SPT, 4PCSM:71: II45

Nowlin, Charles L.
Water Resources Management In South Florida, SEA:70:27

Nowotny, B.
See L. K. Liu, SDNPF:Dec 73:435

Nugent, Maynard Charles
Community Service and Urban Problems: Can Civil Engineers Make a Contribution?, CE:Jan 70:53
  TR:136:54
How A Construction Industry Organization Provides Educational Opportunities, CEE:Feb 74:1-865

Nuhn, Albert C.
See Harold P. Bakke, CE:Nov 69:56

Nunez, E.
See O. A. Varde, 4PCSM:71:II179

Nunnally, Stephens W.
Management Education for Civil Engineers, with William H. Wisely, CEE:Feb 74:1-696

Nur, Amos M.
See Joseph J. Spranza, SM12:Dec 71:1623:8586

Nussbaum, Herbert
Recent Development of New Austrian Tunneling Method, CO1:July 73:115:9836
  TR:139:401

Nutter, Wade L.
See John D. Hewlett, IAWM:72:65

Nuzzo, William L.
See Anthony M. DiGioia, Jr., PO1:June 72:77:8980

Nwachukwu, Ben A.
Dsc, HY8:Aug 74:1186:10696, of "Design Criteria for Submarine Pipeline Crossings", HY10:Oct 73: 1659:10070

Nwokoye, Daniel N.
Dsc, ST9:Sept 74:1963:10772, of "Inelastic Bending of Wood Beams", ST10:Oct 73:2079:10071

Nylander, S.
See Karl Arthur Scherman, IMROD:Sept 73:157

Obermuller, John C.
See Raymond Eugene Davis, ST3:Mar 74:599:10404

Obert, Leonard
See H. Douglas Dahl, RM14:73:747

Obi, Boniface C.
Soil-Cement Bases Under Thin Bituminous Surfacing, TE2:May 72:167:8871
  Dsc: E. Otte, TE2:May 73:424:9691
  Clo: TE1:Feb 74:279:10307
  TR:139:11

Obin, Jean-Pierre
See J. P. Boehler, SM10:Oct 71:1493:8410

Obrician, Vladimir
See John Lowe, III, SM1:Jan 69:77:6327

O'Brien, James J.
Project Control Using CPM, CE:Apr 74:68

O'Brien, John T.
Full Scale Observation of Berthing Impacts: Their Interpretation, BMS:71:203
  Dsc: Theodore T. Lee, BMS:71:206
Full Scale Observation of the Behavior of Moored Ships, BMS:71:130
  Dsc: Robert C. H. Russell, BMS:71:143; John T. O'Brien, BMS:71:144
Seiches and Other Causes of the Motion of Ships Already Moored, BMS:71:20
Dsc, BMS:71:144, of "Full Scale Observation of the Behavior of Moored Ships", BMS:71:130

O'Brien, Morrough P.
Equilibrium Flow Areas of Inlets on Sandy Coasts, WW1:Feb 69:43:6405
  TR:135:76
Field and Laboratory Studies: Navigation Channels of the Columbia River Estuary, CE13:72:III-2465
Hydraulics and Sedimentary Stability of Coastal Inlets, with Robert G. Dean, CE13:72:II-761
Some Comments on Coastal Engineering, CE13:72:I-3
Dsc, HY6:Nov 69:2168:6866, of "Salinity Intrusion Effects in Estuary Shoaling", HY1:Jan 69:9:6340
Dsc, CE:Feb 72:39, on Professional Input to Engineering Education, CE:Aug 71:27
Dsc, WW2:May 74:164:10509, of "Regime Equations and Tidal Inlets", WW3:Aug 73:393:9952
Dsc, WW4:Nov 74:398:10903, of "Characteristics and Behavior of Pacific Coast Tidal Inlets", WW3: Aug 73:325:9927

O'Brien, Thomas J.
Orthophotomapping for Prudhoe Bay Development, SU2:Nov 71:199:8499
  TR:137:1008

O'Brien, W. Terence
Behavior of Loaded Cable Systems, ST10:Oct 68: 2281:6162
  TR:136:627

Obrist, Alfred
Dsc, Special Issue on Urban Development, CE:Jan 70:73
Dsc, CE:Jan 70:73, on A Black Civil Engineer Looks at His Profession, CE:Sept 69:93

Ockert, William C.
See Robert N. Young, TE2:May 71:347:8131

Ockleston, Alan J.
See Konstant E. Bruinette, ST2:Feb 74:335:10361

O'Connell, P. Enda
Multivariate Synthetic Hydrology: A Correction, TN: HY12:Dec 73:2393:10192

O'Connor, Brian A.
Suspended Load Calculations in a Tidal Estuary, 12CEC:71:1931

O'Connor, Colin
See James H. Lee, ST11:Nov 69:2371:6889

O'Connor, Donald J.
Photosynthesis and Oxygen Balance in Streams, with Dominic M. Di Toro, SA2:Apr 70:547:7240
  TR:136:1201
Water Quality Model of Chlorides in Great Lakes, with John A. Mueller, SA4:Aug 70:955:7470
  TR:136:1144
See Robert V. Thomann, EE3:June 74:699:10576

O'Connor, John T.
Control of Bacterial Growths in Rapid Sand Filters, with Kalyanpur Y. Baliga, SA6:Dec 70:1377:7767
  Dsc: Hans S. Posselt, SA5:Oct 71:771:8409
  Clo: SA3:June 72:595:8928
  TR:137:537
Iron Removal Using Magnesium Oxide, with Barrett E. Benson, SA6:Dec 70:1335:7740
  TR:136:1328
See Surinder K. Kapoor, NSCD:71:179

O'Connor, Kevin J.
See Walter D. Pilkey, TN: ST7:July 73:1702:9828

Oda, Kazuki
See Shoshichiro Nagai, CE13:72:III-1743

Odar, Fuat
See Yin-Chao Yen, EM5:Oct 70:641:7607

O'Day, D. Kelly
Dsc, CE:Jan 73:59, on Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, CE: Sept 72:54

O'Dell, Martin
See A. Roy Halliwell, 12CEC:71:1959

Odello, Robert J.
Shells for Standard Floor and Roof Elements, with Jay R. Allgood, ST10:Oct 73:1999:10096
  Dsc: Kenneth P. Buchert, ST7:July 74:1532:10637; Anil K. Kar, ST7:July 74:1533:10637; M. N. Keshava Rao, ST9:Sept 74:10772
  TR:139:502

Oden, J. Tinsley
Finite-Element Analogue Of Navier-Stokes Equation, TN: EM4:Aug 70:529:7444
Imbedding Technique For Weak-Weak Approximations Of Linear And Nonlinear Operations, TN: EM5:Oct 72:1327:9228
Thermo-Plastic Materials With Memory, with Dev R. Bhandari, EM1:Feb 73:131:9554
  Dsc: Alvin M. Strauss, EM1:Feb 74:132:10303
  Clo: EM6:Dec 74:1255:10972
  TR:139:224
Dsc, ST6:June 69:1379:6583, of " Finite-Element Analysis of Nonlinear Structures", ST9:Sept 68:2081:6115
See Gerald A. Wempner, EM6:Dec 68:1273:6259

Odgaard, Jacob
Relative Diffusion in Nonisotropic Turbulence, HY1: Jan 73:239:9503
  Errata: HY11:Nov 73:2157:10109
  TR:139:197

Odom, James Julius
Memoir of, TR:136:1360

O'Donnell, James J.
See Andrew Heubeck, Jr., SA2:Apr 68:283:5900

O'Donnell, Terence
Dsc, with F. Victor Appleby and Richard P. Ibbitt, HY6:Nov 69:2160:7248, of "Analytically Derived Unit Graph and Runoff", HY6:Nov 68:1489:6256
See Eric M. Laurenson, HY6:Nov 69:1899:6887
See Richard P. Ibbitt, HY9:Sept 71:1331:8370
See Nazar M. Awan, IR3:Sept 72:459:9167

Odum, Eugene P.
Territorial Behavior and Preservation in Relation to Environmental Quality, ABS:71:53

Oeler, R. H.
See R. J. Gozikowski, CE:Aug 74:49

Offner, Franklin F.
Computer Simulation of Storm Water Runoff, HY12: Dec 73:2185:10216
  Dsc: Jong-Song Chien, HY8:Aug 74:1189:10696; Pedro C.C. Da Costa, HY10:Oct 74:1499:10839
  TR:139:475

Ofuya, A. O.
Dsc, WW3:Aug 69:435:6709, of "Characteristics of Open Tube Wave Attenuation System", WW4:Nov 68:465:6234

Oganovic, Nicholas J.
Civil Engineer in Federal Government, PP1:Sept 70:9:7546
  TR:136:879

Ogden, Daniel M., Jr.
Politics Of Water Resources Development, SEA:70:353

Ogden, David W.
See Graham H. Powell, ST5:May 69:909:6563

Ogden, Kenneth W.
See Angus J. McKenzie, TE4:Nov 74:855:10920

Oglesby, Clarkson H.
See James Douglas, CO1:July 69:142:6640
See John D. Borcherding, CO3:Sept 74:413:10826

Oglesby, R. T.
Intertidal Communities as Monitors of Pollution, with David Jamison, SA3:June 68:541:6008
  TR:135:649

Oh, Hilario L.
See Neng-Ming Wang, EM4:Aug 73:867:9929

O'Hara, G. J.
Dsc, with Richard A. Skop, ST3:Mar 73:590:9583, of "Dynamic Analysis of Cable Systems", ST8:Aug 72:1817:9127

O'Hara, John W.
See J. George Thon, PO1:Jan 70:157:7039

O'Hara, Wayne G.
Dsc, CE:Dec 71:59, on Rapid Determination of Plasticity Index, CE:May 71:74

O'Hargan, Paul T.
The Boundary of the Sovereign, SU1:Sept 73:15:9979
  Dsc: John F. Michel, SU2:Nov 74:173:10900
  TR:139:397

Ohba, Hiroshi
See Sansei Miki, TB:73:Ib-9-817

Ohira, Takuya
Pressurized-Slurry Shields Bore Submarine Tunnels, with Shunta Shiraishi, CE:May 72:55
  Errata: CE:Sept 72:94
  TR:138:248

Ohrn, Carl E.
Estimating Potential Bicycle Use and Public Investment, BP73:Dec 73:582

Ohstrom, Eric G.
See Edward S. Neumann, TE4:Nov 73:827:10155

Oien, P.
See Neil T. Monney, CO1:Jan 68:89:5760

Ojalvo, Irving U.
Buckling of Naturally Curved and Twisted Beams, with Malcolm Newman, EM5:Oct 68:1067:6156
Clo: EM4:Aug 69:1013:6705
TR:135:890

Ojalvo, Morris
Out-Of-plane Buckling of Curved Members, with Edvins Demuts and Frank J. Tokarz, ST10:Oct 69: 2305:6865
Errata: ST3:Mar 70:743:7116
TR:135:1086
Dsc, ST1:Jan 70:165:6990, of "Limit Analysis of Structures", ST9:Sept 69:1901:6778
See Shyam N. Shulka, ST6:June 71:1763:8209

Ojha, Surendra K.
Dsc, ST3:Mar 71:983:7944, of "Arch Action and Bond in Concrete Shear Failures", ST6:June 70: 1069:7338

Ojo, John
See Frederick J. Wegmann, TE3:Aug 74:643:10728

Okazaki, Clyde
See Anil K. Kar, ST3:Mar 73:321:9601

Okcuoglu, Cetin A.
See Frank C. Hartzell, Jr., PO3:June 70:486:7312

Okey, Charles William
Memoir of, TR:137:1069

O'Kon, James A.
Energy Conservation, Noise, and Vibration Control in Construction of Floating Offshore Power Plants, TN: CO2:June 74:195:10570

Okun, Daniel A.
Health Aspects of Water Management, PWS:Nov 72: 133
Dsc: Samuel S. Baxter, PWS:Nov 72:159; John G. Watson, PWS:Nov 72:161
Clo: PWS:Nov 72:164
New Directions for Wastewater Collection and Disposal, CWFE:Mar 71:157

Okuto, Koichiro
See Toshio Kai, ST9:Sept 74:1954:10772

Ola, Samuel A.
Need for Estimated Cement Requirements for Stabilizing Lateritic Soils, TE2:May 74:379:10534

Olander, Harvey C.
Design of Cylindrical Concrete Water Tanks, ST5: May 70:947:7303
TR:136:924
Study of Pipe with Concrete Bedding-Part II, with Gordon G. Robertson, TE1:Feb 70:25:7087
TR:136:324

Oldenziel, Daniel M.
Influence of Suction and Blowing on Entrainment of Sand Particles, with Warner E. Brink, HY7:July 74: 935:10672

Oldham, Mason B., Jr.
Water Resources Planning For Pascagoula Basin, with John W. Rushing, WW1:Feb 70:65:7060
TR:136:383

Oline, Larry W.
Strain Rate Effects in Particulate-Filled Epoxy, with Russell Johnson, EM4:Aug 71:1159:8314
Dsc: R. L. Sierakowski and G. W. Hemp, EM2: Apr 72:481:8798
Clo: EM6:Dec 72:1596:9390
TR:137:1026

Olitt, Arnold
Retirement Plan Study, PP1:Sept 70:39:7552
TR:136:921

Olivieri, Vincent P.
Inactivation of Virus in Sewage, with Thomas K. Donovan and Kazuyoshi Kawata, NSCD:71:365
Inactivation of Virus in Sewage, with Thomas K. Donovan and Kazuyoshi Kawata, SA5:Oct 71:661: 8419
Dsc: Harvey F. Collins, Robert E. Selleck and George C. White, SA4:Aug 72:664:9077
TR:138:41
See Karl Longley, EE5:Oct 73:757:10035
See Kazuyoshi Kawata, TN: EE6:Dec 74:1307:10978

Olko, Stephen M.
Legislative Involvement, PP4:Oct 72:491:9278
TR:138:573
Overseas Work and the Smaller Consulting Engineering Firm, CEWAU:74:252

O'Loughlin, Emmett M.
Dsc, with David L. Short, &HY10:Oct 71:1771:8407, of "Implicit Flood Routing in Natural Channels", HY12:Dec 70:2481:7773

Olsen, Harold W.
Dsc, with Albert T.F. Chen, SM3:May 69:927:6525, of "Seismic Response of Horizontal Soil Layers", SM4:July 68:1003:6043

Olsen, J. C.
Dsc, CE:June 70:44, on Civil Engineering Today: A Profession in Crisis-Part II, CE:Feb 70:51

Olsen, Robert N.
Open-Shop Movement Slithers Into Construction Contracting, CE:Nov 71:40
TR:137:666

Olshesky, Dale H.
Dsc, CE:Jan 74:29, on The Civil Engineer In Construction, CE:July 73:97

Olson, Benjamin R., Jr.
Development of Large Scale Drip Irrigation Systems, IR73:Aug 73:311

Olson, Don L.
See Donald T. Lauer, ESE:Apr 70:93

Olson, James P.
A Flexible Civil Engineering Curriculum, with Joseph C. Oppenlander, CEE:Feb 74:1-48
Predicting Effective Stress Paths, with Harvey E. Wahls, TN: SM8:Aug 71:1139:8307
See Richard S. Haupt, PES:72:I-1

Olson, John B.
See Henry J. Miedema, TE3:Aug 74:733:10756

Olson, Robert M.
Design Requirements for Safer Highway Bridge Rails, with Edward R. Post and Don L. Ivey, TE2:May 71:291:8125
TR:137:347

Olson, Roy E.
Control of Deformation Rates in Soil Testing, with Vincent J. McDonald and James N. Sterner, TN: SM1:Jan 71:283:7787
Finite Difference Analyses for Sand Drain Problems, with David E. Daniel and Thomas K. Liu, GT74: June 74:85

Mechanisms Controlling Compressibility of Clays, with Gholamreza Mesri, SM6:Nov 70:1863:7649
  Dsc: Asuri Sridharan and Guda Venkatappa Rao, SM6:June 71:940:8158; Kolinjuvadi S. Sankaran and D. Venkateswara Rao, SM7:July 71:1038:8224; Sam Frydman, Jan Kinsky and Israela Ravina, SM8:Aug 71:1124:8270
  Errata: SM1:Jan 72:118:8622
  Clo: SM2:Feb 72:220:8683
  TR:137:161
Pile-Driving Formulas For Friction Piles in Sand, with Kaare S. Flaate, SM6:Nov 67:279:5604
  Dsc: Edward K. Anderson, SM1:Jan 69:375:6324; Ian G. Cameron, SM1:Jan 69:377:6324
  Clo: SM5:Sept 69:1264:6754
  TR:135:508
Session IV: Other Improvement Techniques (Additives, Grouting, Thermal, Electro, Vibroflotation, Blasting, Compaction, Piles), PISST:71:91
Shearing Strength of Kaolinite, Illite, and Montmorillonite, GT11:Nov 74:1215:10947
See David E. Daniel, GT10:Oct 74:1123:10869

Olsson, W. A.
See Fred A. Donath, RM14:73:189

Oluonye, Peter C.
Dsc, TE4:Nov 72:1074:9309, of "Effect of Load Placement on Rigid Pavement Behavior", TE4:Nov 71:681:8543

Omid'varan, Cyrus
See Donald L. Dean, ST3:Mar 69:411:6474

O'Neil, Robert S.
Washington D.C.'s Metro--A Progress Report, CE:Apr 72:56
  TR:138:194

O'Neill, Ian C.
See Frank W.F. Waitt, HY3:May 69:787:6531
See Alan K. Parkin, HY7:July 70:1645:7384

O'Neill, Michael W.
Behavior of Bored Piles in Beaumont Clay, with Lymon C. Reese, SM2:Feb 72:195:8741
  Dsc: Vasant N. Vijayvergiya, SM12:Dec 72:1418:9394
  Clo: SM7:July 73:563:9825
  TR:139:36
Dsc, ST2:Feb 69:289:6373, of "Static and Dynamic Analysis of Pile Foundations", ST5:May 68:1077:5936
Dsc, SM9:Sept 71:1350:8347, of "Lumped Parameter Beams Based on Impedance Methods", SM4:Apr 71:661:8052
See Lymon C. Reese, SM1:Jan 70:235:7032
See Lymon C. Reese, WW2:May 70:433:7291

O'Neill, Robert S.
Escalators in Rapid Transit Stations, TE1:Feb 74:1:10333

Ongerth, Jerry E.
See Truett V. DeGeare, SA6:Dec 71:843:8589

Onitsuka, Masamitsu
See Tonia Eemura, CEO-II:70:247

Onstott, E. I.
Electroprecipitation of Phosphate from Sewage, with William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196
  TR:139:454

Oosterbaan, Marvin D.
A Case Study of the Bauer Earth Anchor, with Douglas G. Gifford, PES:72:I-1391

Oppenheim, Irving J.
See Wai F. Chen, TN: ST1:Jan 74:279:10264
See Robert Burnham, CEE:Feb 74:1-179

Oppenlander, Joseph C.
See Salim S. Hejal, TE2:Feb 71:1:7877
See James P. Olson, CEE:Feb 74:1-48

Oran, Cenap
Buckling of Uniformly Compressed Circular Arches, with Ronald S. Reagan, EM4:Aug 69:879:6732
  TR:135:1003
Complementary Energy Method for Buckling of Plates, EM2:Apr 68:621:5911
  Clo: Robert Schmidt, EM1:Feb 69:295:6371
  TR:135:497
Complementary Energy Method for Buckling of Arches, EM2:Apr 68:639:5912
  Dsc: Donald A. DaDeppo and Robert Schmidt, EM1:Feb 69:296:6371
  Clo: EM5:Oct 69:1285:6800
  TR:135:548
Geometric Nonlinearity in Nonprismatic Members, ST7:July 74:1473:10679
Influence Surfaces for Curved Multibeam Bridges, with Sheng Ching Lin, ST7:July 73:1349:9846
  TR:139:385
Tangent Stiffness in Plane Frames, ST6:June 73:973:9810
  TR:139:368
Tangent Stiffness in Space Frames, ST6:June 73:987:9813
  TR:139:368
Upper Bounds in Complementary Energy Method, EM4:Aug 71:1093:8289
  TR:137:1022

Oravec, Ralph J.
See Woodrow W. Rankin, TE2:May 73:405:9745

Orchard, R. J.
Dsc, SM6:Nov 70:2162:7643, of "State of Predictive Art in Subsidence Engineering", SM2:Mar 70:721:7187

Ordon, Chester J.
Volume of Storm Water Retention Basins, EE5:Oct 74:1165:10889
Dsc, SA3:June 68:579:5965, of "Recent Approaches for Trickling Filter Design", SA1:Feb 68:65:5798
Dsc, SA4:Aug 68:762:6049, of "Dispersion Conduits", SA1:Feb 68:31:5781

Orenstein, Glenn S.
See Edward G. Nawy, ST3:Mar 70:701:7182

Orlob, Gerald T.
Systems Approach to Water Quality Management, with Bill B. Dendy, HY4:Apr 73:573:9660
  TR:139:252
Temperature Variations in Deep Reservoirs, with Lawrence G. Selna, HY2:Feb 70:391:7063
  Dsc: Yu-Leuk Choi, HY10:Oct 70:2154:7568
  TR:136:913
Water-Quality Management in Irrigation Systems, with Philip C. Woods, IR2:June 67:49:5280
  TR:135:200
See George K. Young, Jr., HY4:Apr 70:911:7209
See Carl W. Chen, PO1:June 72:65:8984

Orman, J. C.
Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, ASC73:Mar 73:107

Orme, Donald H.
Construction Self-Weight Stresses Of Precast Shear Walls, with Reginald G. Smith and William R. Tinch, EC5:70:645
Construction Self-Weight Stresses of Precast Shear Walls, with Reginald G. Smith and William R. Tinch, ST1:Jan 71:393:7840
  TR:137:323

Orosco, Rudolph
See Richard E. Speece, SA3:June 70:715:7348

O'Rourke, John E.
Performance Instrumentation Installed in Oroville Dam, GT2:Feb 74:157:10363

O'Rourke, Michael J.
Fundamental Frequency of Shear Flexible Buildings, TN: EM5:Oct 74:1080:10856
Natural Frequency on Programmable Calculator, TN: ST10:Oct 74:2169:10858
Dsc, PP4:Oct 73:545:10040, of "An Educator-Practitioner Interaction Program", PP2:Apr 73:259:9674
Dsc, with Richard A. Parmelee, ST2:Feb 74:476:10306, of "Modal Analysis for Structures with Foundation Interaction", ST3:Mar 73:399:9603
Dsc, EM:Dec 74:1270:10972, of "Modal Damping for Soil-Structure Interaction", EM2:Apr 74:323:10490

Orozco, Luis F.
See Arley G. Franklin, SM7:July 73:541:9873

Orr, V. Darryl
See Ralph H. Clark, TN: SA5:Oct 72:809:9229

Orrett, Leland M.
Dsc, UP1:Mar 74:113:10382, of "Towards New Towns for America-Slowly", UP1:Mar 73:47:9591

Orsborn, John F.
Determining Streamflows from Geomorphic Parameters, IR4:Dec 74:455:10986
Drainage Density in Drift-Covered Basins, HY1:Jan 70:183:7033
  Dsc: Michael C. Roberts and Peter C. Klingeman, HY7:July 70:1656:7384
  Clo: HY2:Feb 71:352:7863
  TR:136:436
Predicting Low Flows and Floods from Ungaged Drainage Basins, HYB:Aug 73:383
Rectangular-Bar Trashrack and Baffle Headlosses, PO2:Nov 68:111:6223
  TR:135:874

Orth, H. Richard
Public Attitude Toward Transportation Issues, with Walter Cherwony, TE3:Aug 70:365:7478
  TR:136:1147

Orth, P. G.
See E. H. Stewart, SEA:70:63

Orth, William A.
Continuing Education in the Strategic Air Command, CEE:Feb 74:1-874

Ortiz, Jaime
Movement of Salts in Ponded Anisotropic Soils, with James N. Luthin, IR3:Sept 70:257:7530
  TR:136:1186

Ortolano, Leonard
Cost of Thermal Effluent Standards for Power Plants, with Frank A. Smith, PO1:July 74:15:10649
Environmental Impacts of Reservoirs -- A Case Study, HYB:Aug 73:93
Issues in Water Resources Impact Assessment, HY1:Jan 74:173:10292

Orton, Ivan
See David A. Alley, CE:Sept 71:88

Osawa, Yutaka
Observation of Structural Behavior, State-of-Art Report 4, TB:73:Ib-6-213

Osborn, Herbert B.
Management of Ephemeral Stream Channels, with Kenneth G. Renard, IR3:Sept 73:207:10005
  TR:139:447
Thunderstorm Runoff in Southeastern Arizona, with Emmett M. Laursen, HY7:July 73:1129:9871
  Dsc: Thunderstorm Runoff in Southeastern Arizona, John R. Christofferson, HY9:Sept 74:1274:10770
  TR:139:335
See Kenneth G. Renard, HY3:Mar 70:773:7161
See Leonard J. Lane, HY12:Dec 74:1854:10974

Osborn, John A.
Charting New Transportation Environment, SU2:Sept 70:265:7565
  TR:137:701

Osborne, J. Michael
Economic Design of Low Pressure Air Piping Systems, EE6:Dec 74:1263:11031
Marginal Economics Applied to Pipeline Design, with L. Douglas James, TE3:Aug 73:637:9933
  TR:139:405

O'Shea, John B.
The CPM-by-Calendar Algorithm, CO2:Oct 68:139:6142
  TR:136:572

Oshier, E. H.
See E. R. Hoskins, RM14:73:299

Ospina, Carlos S.
See Alberto Mosseri, PO1:Jan 71:255:7784

Ossenbruggen, Paul J.
Steel Column Failure Under Thermal Gradients, with Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
  TR:139:298
See Charles G. Culver, ST4:Apr 73:715:9682
See William P. Darby, EE3:June 74:577:10577

Ostenfeld, Christen
Denmark's Lillebaelt Suspension Bridge, CE:Dec 72:35
  TR:138:526

Ostensen, Raymond J.
See Barclay G. Jones, TN: EM1:Feb 73:233:9528

Oster, Clarence A.
See John C. Sonnichsen, Jr., SA2:Apr 70:353:7219

Ostlund, Lars
Limits of Usefulness, State-of-Art Report 2, TB:73:II-19-841

Ostrom, Dennis K.
See Richard B. Fallgren, PO1:July 74:1:10652

O'Sullivan, Michael J.
See J. Christopher Rutherford, EE2:Apr 74:369:10461

Oswald, William J.
See Gedalia Shelef, SA1:Feb 70:91:7105

Otani, Shunsuke
Inelastic Analysis of R/C Frame Structures, ST7:July 74:1433:10686
Simulated Earthquake Tests of R/C Frames, with Mete A. Sozen, ST3:Mar 74:687:10435

Oteo, Carlos S.
Dsc, SM2:Feb 72:226:8683, of "Behavior of Laterally Loaded Piles: II-Pile Groups", SM5:May 71:733:8093
Dsc, GT4:Apr 74:463:10440, of " Analysis of Piles in Soil Undergoing Lateral Movement", SM5:May 73:391:9740

O'Toole, Michael J.
Dsc, SA3:June 69:679:6582, of "Hudson River as a Water Source for New York City", SA3:June 68:447:5967

Ott, Charles R.
Theoretical Analysis of Activated Sludge Dynamics, with Richard H. Bogan, SA1:Feb 71:1:7879
  Dsc: Ritchie D. Mikesell, SA5:Oct 71:773:8409
  Errata: SA2:Apr 72:441:8800
  Clo: SA3:June 72:596:8928
  TR:137:554
Theoretical Evaluation of Filter Modeling Experiments, with Richard H. Bogan, SA2:Apr 70:455:7233
  Dsc: Kenneth J. Ives, SA6:Dec 70:1458:7713; Jerry Y.C. Huang and E. Robert Baumann, SA6:Dec 70:1460:7713
  Clo: SA4:Aug 71:526:8269
  TR:136:838

Otte, E.
Dsc, TE2:May 73:424:9691, of "Soil-Cement Bases Under Thin Bituminous Surfacing", TE2:May 72:167:8871

Ou, Chin-Der
See Adel S. Saada, SM12:Dec 73:1091:10225

Ou, Shan-Hwei
Relationship Between the Significant Waves and the Directional Wave Spectrum, with Charles L. Bretschneider and Frederick L.W. Tang, WAVES:Sept 74:728
See Frederick L.W. Tang, CE13:72:I-271

Oudheusen, Albert J.
International Standards on Steel, TB:73:II-13-135

Ouellet, Yvon
Consideration on Factors in Breakwater Model Tests, CE13:72:III-1809
Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, WW1:Feb 72:1:8693
  Dsc: Per Moller Bruun, WW4:Nov 72:594:9310; Jade Dattatri, WW1:Feb 73:134:9527
  TR:138:119
On the Need of Wave Data for the Design of Rubble-Mound Breakwaters, WAVES:Sept 74:500

Oulman, Charles S.
See E. Robert Baumann, IR73:Aug 73:711

Oursler, Will
The Creative Force, CEWAU:74:10

Oury, Robert F.
Ribbon Batch and Conveyor Placing Systems for Concrete Dams, RCCD:70:281

Overbeek, Norman J.
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), PP1:Jan 72:131:8658
  TR:138:119

Overby, Ragnar
See J. Donald Johnson, NSCD:71:37
See J. Donald Johnson, SA5:Oct 71:617:8425

Overton, Donald E.
Dsc, HY1:Jan 73:273:9459, of "Obtaining Overland Flow Resistance by Optimization", HY3:Mar 72:429:8773
See Chin-lien Yen, HY1:Jan 73:219:9506
See William J. Gburek, HY9:Sept 73:1433:10026

Overton, W. Scott
See David A. Bella, SA3:June 72:579:8994

Ovesen, N. Krebs
Design Method for Vertical Anchor Slabs in Sand, with Helle Stromann, PES:72:I-1481

Ovunc, Bulent
Dsc, ST6:June 69:1379:6583, of " Finite-Element Analysis of Nonlinear Structures", ST9:Sept 68:2081:6115
See Semih S. Tezcan, ST2:Feb 69:308:6373
See Semih S. Tezcan, ST3:Mar 69:543:6430

Owada, Yoshimasa
See Yoichi Higashi, TB:73:III-21-259

Owen, John A.
Dsc, CE:Nov 72:56, on Pullman Tackles its Flooding Problems, CE:Aug 72:42

Owen, Langdon W.
Water Resources Management, SEA:70:157

Owen, M. W.
Dsc, HY2:Mar 69:749:6433, of "Erosion of Cohesive Sediments, Task Commitee on Erosion of Cohesive MaterialH", HY4:July 68:1017:6044
Dsc, HY3:June 69:1085:6524, of "Deposition of Suspended Particles in a Gravel Bed", HY5:Sept 68:1197:6102

Owens, E. H.
The Cleaning of Gravel Beaches Polluted by Oil, CE13:72:III-2539

Ownbey, Charles R.
Regulation of Low Streamflows, HYB:Aug 73:241

Oyler, John F.
Alternate Approaches to the Education of Designers, with Howard H. Hobson, CEE:Feb 74:1-390

Ozaka, Yoshio
See Tatsuo Nishiki, CE:Nov 69:60

Ozaki, Shigeo
See Takeshi Ijima, 12CEC:71:1537

Ozer, E.
Tall Buildings: Major Characteristics, State-of-Art Report 1, with N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93
See N. Abaya, TB:73:C-AC14-113

Ozmen, Gunay
See Adam Cakiroglu, EM3:June 68:711:5968

Ozmidov, R. V.
Some Peculiarities of Turbulence in the Stratified Ocean, with V. S. Belyaev, ISSF:Aug 72:595

Paaswell, Robert E.
The Engineer and Social Responsibility, CE:June 71:82
Homogeneity Analysis and Planning Studies, UP2:Dec 71:125:8561
  TR:137:921
Dsc, HY2:Mar 69:751:6433, of "Erosion of Cohesive Sediments, Task Commitee on Erosion of Cohesive MaterialH", HY4:July 68:1017:6044
See Emmanuel Partheniades, HY3:Mar 70:755:7156
See Charles B. Notess, TE4:Nov 72:807:9320

Pabst, Arthur F.
See Charles C.S. Song, EE6:Dec 73:785:10209

Pacelli, Alfred J.
Surveys for South Shore Rapid Transit Construction, SU1:May 71:133:8148
  TR:137:1000

Packard, Robert G.
Fatigue Concepts for Concrete Airport Pavement Design, TE3:Aug 74:567:10702
Dsc, TE4:Nov 73:959:10110, of "Keyed Joint Performance Under Heavy Loaded Aircraft", TE4:Nov 72:931:9376

Padmanabhan, G.
Dsc, HY12:Dec 72:2243:9391, of "Spillway Gate Vibration on Arkansas River Dams", HY1:Jan 72:219:8676
See Ramaswamy Sakthivadivel, HY10:Oct 71:1767:8407
See Stuart G. Sriramulu, HY3:Jan 73:269:9459

Padmanabhan, M.
Dsc, HY1:Jan 69:546:6323, of "Profile of the Hydraulic Jump", HY3:May 68:663:5931
Dsc, HY10:Oct 71:1789:8407, of "Hydraulic Jump Within Gradually Expanding Channel", HY1:Jan 71:31:7831

Paduart, Andre
Current Application of Limit State Philosophy -- State-of-Art Report No. 1, TB:73:III-26-859

Pagan, Alfred R.
An Engineer Looks at Drainage Law, PP4:Oct 72: 535:9255
TR:138:511
The Johnstown Flood Revisited, CE:Aug 74:60
New Culvert Carries Creek Underneath Canal, CE: Oct 72:50
TR:138:440
Temporary Bypass Bridge Designed for Salvage, CE: Mar 70:51
Dsc: C. F. Hamlin, CE:Sept 70:72
TR:136:267

Pagan, Luis Alfonso
Los Manantiales, TB:73:C-P-484

Pagay, Shriniwas N.
Dsc, ST8:Aug 74:1714:10697, of "Finite Element for Reinforced Concrete Frame Study", ST7:July 73: 1371:9835
Dsc, ST8:Aug 74:1715:10697, of "Evaluation of Computer Charging Policies", ST7:July 73:1423: 9849

Page, Bobby G.
Dsc, TE2:May 69:393:6527, of "Criteria for Maintenance of Multilane Highways, Committee on Construction, Maintenance, and Operation of Highways", HW1:June 68:43:5986

Page, Daniel G.
See Grant S. Anderson, CE:Sept 72:74

Pages, Andre Pierre X.
Model Investigation of Berthing Impacts, BMS:71: 209
Dsc: Pierre Giraudet, BMS:71:220; Albert Steenmeyer, BMS:71:220
Dsc, BMS:71:264, of "Design Criteria for Fenders and Berthing Structures", BMS:71:256

Pages, Richard E.
See William D. Alexander, CE:Oct 72:77

Pahl, Peter J.
See John M. Biggs, EC5:70:1
See John M. Biggs, ST1:Jan 71:13:7816

Pai, Shi-I
One Dimensional Lunar Ash Flow With and Without Heat Transfer, with Tsuying Hsieh, ISSF:Aug 72: 641

Paily, Poothrikka P.
Winter-Regime Thermal Response of Heated Streams, with Enzo O. Macagno and John F. Kennedy, HY4:Apr 74:531:10479
Dsc: Edward Silberman, HY12:Dec 74:1859: 10974

Paine, Nicholas
Dsc, HY3:Mar 71:462:7940, of "Optimum Design of Complex Water Resource Projects", HY6:June 70: 1229:7320

Paintal, A. S.
Dsc, SA:Dec 69:1182:6931, of "Hydraulic Design of Self-Cleaning Sewage Tunnels", SA1:Feb 69:17: 6404

Painter, David J.
See Alex J. Sutherland, HY7:July 71:1031:8233
See Alex J. Sutherland, HY4:Apr 72:724:8799

Painter, William T.
See Vinton W. Bacon, URC:72:115

Pais-Cuddou, I. C. dos M.
Sedimentation of Reservoirs, with Shri N. C. Rawel, IR3:Sept 69:415:6789
Dsc: Abhimanyu Swain, IR2:June 70:226:7311
Clo: IR1:Mar 71:214:7941
TR:136:183

Pal, Anil K.
See Jitendra N. Kar, ST5:May 72:1053:8909

Pal, Shubendu
See Lorne J. Butler, ST5:May 72:989:8874

Palacios H., P.
See Hans Hasen, CE:Dec 71:55

Palaniswamy, Ranga
Fracture and Stress-Strain Relationship of Concrete Under Triaxial Compression, with Surendra P. Shah, ST5:May 74:901:10547

Palazotto, Anthony N.
Dsc, EM5:Oct 71:1576:8406, of "Inelastic Buckling of Axisymmetric Shells", EM6:Dec 70:1107:7765
Dsc, ST1:Jan 72:366:8623, of "Inelastic Flange Buckling of Curved Plate Girders", ST4:Apr 71: 1239:8072

Palevsky, Gerald
Commentary, CEWAU:74:259
Opening Remarks, CEWAU:74:138

Palmer, Andrew C.
Optimal Structure Design by Dynamic Programmino, ST8:Aug 68:1887:6057
TR:135:702
Settlement of Pipeline on Thawing Permafrost, TE3: Aug 72:477:9090
Dsc: Edwin J. Chamberlain and Paul A. Lilienthal, TE3:Aug 73:678:9896
Clo: TE2:May 74:525:10508
TR:139:27
Dsc, ST1:Jan 69:123:6325, of "Grid Moment Maximization by Mathematical Programming", ST2:Feb 68:529:5818
Dsc, TE1:Feb 74:284:10307, of "The Trans-Alaska Pipeline Story", TE1:Feb 73:139:9573

Palmer, Harold D.
Wave-Induced Scour On The Sea Floor, CEO-II:70: 703

Palmer, Mervin D.
Dispersion Prediction from Current Meters, with J. Bryan Izatt, HY8:Aug 70:1667:7464
Dsc: Hugo B. Fischer, HY6:June 71:875:8155
Errata: HY4:Apr 71:626:8012
Clo: HY9:Sept 71:1527:8345
TR:136:1114
Instrument Support Structure, CEO-II:70:401

Palmer, Robert K.
List of Information Sources for Airport Planners, TE1:Feb 72:131:8721
TR:138:65

Palmer, Robert Q.
Honolulu Reef Runway Dike, with James R. Walker, 12CEC:71:1629
See James R. Walker, CE13:72:III-2597

Palniltar, V. G.
See S. H. Nagaraja, HY1:Jan 73:277:9459

Paloheimo, Eero
Structural Design Based on Weighted Fractiles, with Matti Hannus, ST7:July 74:1367:10663

Panak, John J.
See Hudson Matlock, EM4:Aug 71:1083:8282

Pande, G. N.
Dsc, PO2:Oct 69:360:6801, of "Prestressed Concrete Transmission Line Structures", PO1:May 68:25:5934

Pandit, Ganpat S.
Tests of Concrete Columns in Torsion, with Manak B. Mawal, ST7:July 73:1409:9850
  Dsc: Himat T. Solanki, ST4:Apr 74:827:10442; Kashi T. Sundara Raja Iyengar, Prakash Desayi and S. Sethunarayanan, ST5:May 74:1150:10506; Madhusudan Chakraborty, ST8:Aug 74:1716:10697
  TR:139:396
Thermal Movement Of Bridge Decks, TN: ST8:Aug 72:1899:9086
Ultimate Torque of Rectangular Reinforced Concrete Beams, TN: ST9:Sept 70:1987:7503
Dsc, ST1:Jan 70:153:6990, of "Ponding of Liquids on Flat Roofs", ST5:May 69:797:6539
Dsc, ST2:Feb 70:433:7047, of " Horizontally Curved Girders-State of the Art", ST5:May 69:853:6546
Dsc, ST3:Mar 70:732:7116, of "Rotation Capacity of Beams Under Moment Gradient", ST6:June 69:1173:6599
Dsc, ST3:Mar 70:739:7116, of "Elastic Stability of Continuous Beams", ST6:June 69:1295:6632
Dsc, ST4:Apr 70:852:7191, of "Safety Factors and Probability in Structural Design", ST7:July 69:1389:6667
Dsc, ST4:Apr 70:870:7191, of "Photoelastic Study of Beams on Elastic Foundations", ST8:Aug 69:1713:6739
Dsc, ST5:May 70:734:7116, of "Reinforced Concrete Beams Under Repeated Loads", ST6:June 69:1189:6601
Dsc, ST6:June 70:1212:7314, of "Plastic Bending of A514 Steel Beams", ST9:Sept 69:1851:6762
Dsc, ST6:June 70:1241:7314, of "Local Plastic Buckling of A514 Steel Members", ST9:Sept 69:1837:6761
Dsc, ST6:June 70:1245:7314, of "Diagonal Tension Cracking in Concrete Beams with Axial Forces", ST9:Oct 69:1887:6776
Dsc, ST7:July 70:1606:7386, of "Analysis of Shear Walls with Openings", ST10:Oct 69:2093:6824
Dsc, ST8:Aug 70:1813:7442, of "Behavior of Stiffened Curved Plate Model", ST11:Nov 69:2353:6876
Dsc, ST8:Aug 70:1823:7442, of "Deep Slabs Subjected to Static and Blast Loading", ST11:Nov 69:2449:6919
Dsc, ST9:Sept 70:1970:7567, of "Behavior of Concrete under Compressive Loadings", ST12:Dec 69:2543:6935
Dsc, ST9:Sept 70:1972:7567, of "Nonuniform Torsion of Steel Beams in Inelastic Range", ST12:Dec 69:2813:6964
Dsc, ST2:Feb 71:732:7867, of "Concrete Beams in Bending, Torsion and Shear", ST5:May 70:885:7270
Dsc, ST2:Feb 71:735:7867, of "What Do We Know About Torsion in Concrete Members", ST6:June 70:1185:7372
Dsc, ST4:Apr 71:1374:8015, of "Torsion, Shear, and Bending on Stirruped L-Beams", ST7:July 70:1271:7419
Dsc, ST6:June 71:1826:8159, of "Plastic Design of Coupled Frame-Shear Wall Structures", ST9:Sept 70:1861:7505
Dsc, ST7:July 71:2025:8225, of " Horizontal Thermal Movement of Curved Bridge Decks", ST10:Oct 70:2037:7590
Dsc, ST8:Aug 71:2155:8271, of "Fatigue Tests of Prestressed Concrete I-Beams", ST11:Nov 70:2443:7705
Dsc, ST9:Sept 71:2435:8348, of "Analysis of Orthotropic Reinforced Concrete Structures", ST12:Dec 70:2607:7782
Dsc, ST11:Nov 71:2766:8485, of "Flexural Rigidity of Concrete Column Sectione", ST2:Feb 71:573:7933
Dsc, ST12:Dec 71:2922:8557, of "Hypothesis for Shear Failure of Brickwork", ST4:Apr 71:1055:8029
Dsc, ST12:Dec 71:2926:8557, of "Torsion, Bending and Shear in Prestressed Concrete", ST4:Apr 71:1063:8041
Dsc, ST2:Feb 72:526:8684, of "Analysis of Dowel Action", ST5:May 71:1611:8147
Dsc, ST3:Mar 72:774:8752, of "Flexural Members with Confined Concrete", ST7:July 71:1969:8243
Dsc, ST4:Apr 72:940:8802, of "Stability and Load Capacity of Members with No Tensile Strength", ST7:July 71:1913:8253
Dsc, ST4:Apr 72:941:8802, of "Plastic Analysis of Transversely Loaded Frames", ST8:Aug 71:2047:8284
Dsc, WW3:Aug 72:422:9081, of "Ultimate Energy Design of Prestressed Concrete Fender Piling", WW4:Nov 71:647:8527
Dsc, ST3:Mar 73:582:9583, of "Structural Safety—A Literature Review", ST4:Apr 72:845:8842
Dsc, ST4:Apr 73:791:9640, of "Plastic Collapse of Horizontally Curved Bridge Girders", ST4:Apr 72:899:8848
Dsc, ST4:Apr 73:793:9640, of "Strength of Fiber-Reinforced Concrete", ST5:May 72:1053:8909
Dsc, ST5:May 73:957:9693, of "Biaxial Stress-Strain Relations for Concrete", ST5:May 72:1025:8905
Dsc, ST7:July 73:1675:9826, of "Total Interaction Method for Torsion Design", ST9:Sept 72:2097:9209
Dsc, ST10:Oct 74:2150:10834, of "Torsion and Bending of Prestressed Concrete Beams", ST11:Nov 73:2229:10129

Pandya, Amarendra C.
See Radhey Lal, IR4:Dec 70:451:7748

Panet, Marc
Dsc, SM2:Mar 69:685:6429, of "Graphical Stability Analysis of Slopes in Jointed Rock", SM2:Mar 68:497:5865

Panfill, Robert N.
See Allen F. Lubina, TE4:Nov 71:651:8516

Pani, Bidya Sagar
See Nallamuthu Rajaratnam, HY7:July 72:1101:9009
See Nallamuthu Rajaratnam, HY1:Jan 74:69:10294

Panicker, Narayana N.
Directional Spectra From Wave-Gage Arrays, with Leon Emry Borgman, 12CEC:71:117
Review of Techniques for Directional Wave Spectra, WAVES:Sept 74:669

Pant, Shiva K.
Computer Algorithm for Routing Oversized Trucks, with Frederick J. Wegmann, TE1:Feb 73:151:9570
  TR:139:208
Grouping Algorithms for Statewide Loadmeter Surveys, with Frederick J. Wegmann, TE3:Aug 71:421:8288
  TR:137:790

Panuzio, Frank L.
Jamaica Bay Hurricane Barrier, 12CEC:71:2069

Pao, H. P.
See Timothy W. Kao, ISSF:Aug 72:581

Papadakis, Constantine N.
Bedrock Motions Computed from Surface Seismograms, with Victor L. Streeter and E. Benjamin Wylie, GT10:Oct 74:1091:10853
Earthquake Wave Transmission Through Saturated Soil, with Frank E. Richart, Jr., GT74:June 74:1
Infiltration and Antecedent Precipitation, with Herbert C. Preul, HY8:Aug 73:1235:9940
  Dsc: Sebastian W. Bauer, HY5:May 74:707:10505
  Clo: HY12:Dec 74:1839:10974
  TR:139:345

Testing Methods for Determination of Urban Runoff, with Herbert C. Preul, HY9:Sept 73:1319:9987
Dsc: Jong-Song Chien, HY7:July 74:1081:10635; Pedro C.C. Da Costa, HY8:Aug 74:1178:10696; Harry C. Torno, HY8:Aug 74:1179:10696
TR:139:356
University of Cincinnati Urban Runoff Model, with Herbert C. Preul, HY10:Oct 72:1789:9298
Dsc: Vijay P. Singh, HY7:July 73:1194:9823
Clo: HY4:Apr 74:608:10441
TR:139:121

Papadopoulos, George T.
Programming for Pavlovsky's Ground-Water Problem, with Joakim G. Laguros, IR1:Mar 68:49:5840
Clo: IR2:June 69:352:6581
TR:135:844

Paparoni, Mario
Model Studies of Coupling Beams, State-of-Art Report 3, TB:73:III-24-671

Papo, Haim B.
See M. Geisler, SU2:Oct 67:103:5531
See Ron K.H. Adler, SU1:Oct 69:93:6846

Papp, Remig A.
New Pier in Jamaica Bay, CE:Aug 72:52
TR:138:372

Pappas, Michael
See Amir N. Nahavandi, PO3:July 71:631:8254

Paramasivam, P.
Buckling of Plates of Abruptly Varying Stiffness, with Jawalker K. Sridhar Rao, ST6:June 69:1313:6635
TR:136:744
Dsc, with Jawalker K. SridharRao, ST9:Sept 69:1981:6755, of "Discrete-Element Analysis for Discontinuous Plates", ST10:Oct 68:2257:6157
Dsc, ST7:July 70:1613:7386, of "Buckling Loads of Nonuniform Columns", ST11:Nov 69:2419:6908

Parcher, James V.
See Venkatraman Srinivasan, SM10:Oct 71:1504:8410

Pardee, Lyall A.
Use of Air Space Over Freeway Systems, UP1:Apr 69:61:6519
Dsc: Robert L. McFall, UP1:Mar 70:102:7119
TR:136:788

Pardus, Ivo
See Peter Kos, SA2:Apr 70:642:7190

Parekh, Chandrakant J.
See Olgierd C. Zienkiewicz, ST8:Aug 70:1838:7442
See Peter W. France, IR1:Mar 71:165:7959

Parimi, S. R.
See M. Z. Cohn, EM5:Oct 72:1133:9246

Pariseau, William G.
Open Pit Mine Slope Stability: The Berkeley Pit, with Koehler Stout, RM13:72:367
Support Potential of Hydraulic Backfill, with C. Daniel Kealy, RM14:73:501
See Barry Voight, SM2:Mar 70:721:7187

Parisi, A. M.
See Cheng Y. Yang, 12CEC:71:2011

Parisi, Paul A.
Three Staff Men Named Assistant Secretaries, CE:Dec 72:71

Park, Junesun
See Kuang-Han Chu, TN: PO2:Nov 73:441:10115

Park, Robert
Reinforced Concrete Members with Cyclic Loading, with Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011
TR:138:310
See Robert B. Knowles, ST12:Dec 69:2565:6936
See Robert B. Knowles, ST10:Oct 70:2125:7597
See Dudley Charles Kent, ST7:July 71:1969:8243
See Roger W.G. Blakeley, ST8:Aug 73:1717:9906

Parker, Albert D.
Construction Systems for Concrete Dams, ECCD:72:219

Parker, Alsey Clements
Memoir of, TR:135:1138

Parker, Denny S.
Floc Breakup in Turbulent Flocculation Processes, with Warren J. Kaufman and David Jenkins, SA1:Feb 72:79:8702
TR:138:164
Tidal Exchange at Golden Gate, with Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810
TR:138:276
Dsc, SA5:Oct 71:793:8409, of "Physical Behavior of Flocculent Suspensions in Upflow", SA2:Apr 71:209:8054

Parker, Frank L.
Status of Radioactive Waste Disposal in U.S.A., SA3:June 69:439:6597
TR:136:796
See Peter A. Krenkel, SA1:Feb 69:37:6406
See Edward M. Polk, Jr., HY10:Oct 71:1639:8446
See Jerry L. Anderson, ISSF:Aug 72:469
See Thomas M. Walski, EE3:June 74:593:10601

Parker, Frazier
See James P. Sale, SM12:Dec 73:1077:10240

Parker, Harvey W.
Current Field Research Program on Shotcrete, SUSS:July 73:330

Parker, Henry W.
Civil Engineering's Role in Construction Education, CEE:Feb 74:1-573
See James Douglas, CO1:July 69:142:6640

Parker, Jacob S., Jr.
Dsc, CE:July 73:28, on Residential Community Features Novel Dam and Sewer, CE:May 73:46

Parker, William H., III
Two AWT Plants for Fitchburg, with William F. Callahan, CE:Sept 74:90

Parkhurst, John D.
Oxygen Adsorption in Streams, with Richard D. Pomeroy, SA1:Feb 72:101:8701
Errata: EE1:Feb 73:92:9521
TR:138:156
Regional Planning Sewerage Systems, CWFE:Mar 71:337
Wastewater Reuse--A Supplemental Supply, SA3:June 70:653:7318
Errata: SA2:Apr 71:231:8013
TR:136:942

Parkin, Alan K.
Field Solutions for Turbulent Seepage Flow, SM1:Jan 71:209:7794
Errata: SM1:Jan 72:119:8622
TR:137:256
Dsc, SM3:May 70:1080:7249, of "Elastic Behavior of Sand", SM6:Nov 69:1393:6916
Dsc, with Ian C. O'Neill, HY7:July 70:1645:7384, of "Nonlinear Flow in Porous Media by Finite Elements", HY6:Nov 69:2093:6927

Parkin, Gene F.
Optimal Design of Wastewater Treatment Systems by Enumeration, with Richard R. Dague, SA6:Dec 72:833:9403
  Dsc: Jonathan A. French, EE3:June 73:392:9758; P. Khanna, EE5:Oct 73:748:10035; Masaru Tanaka and Kach Boonyakachon, EE5:Oct 73:749:10035; Andrew C. Middleton and Alonzo W. Lawrence, EE6:Dec 73:960:10180; P. N. Mishra, Liang-Tseng Fan and L. E. Erickson, EE6:Dec 73:962:10180
  Clo: EE5:Oct 74:1181:10836
  TR:139:451

Parkinson, Geoffrey V.
Dsc, EM3:June 71:1023:8154, of "Lift-Oscillator Model of Vortex-Induced Vibration", EM5:Oct 70:577:7606

Parks, Gary A.
See H. Gordon Jensen, ST1:Jan 70:49:7007
See H. Gordon Jensen, ST8:Aug 70:1814:7442

Parks, Vincent J.
Dsc, EM4:Aug 70:503:7438, of "Determination of Signs in Moire Method", EM6:Dec 69:1379:6963
See August J. Durelli, ST5:Oct 67:383:5524
See August J. Durelli, ST5:May 69:871:6552
See August J. Durelli, ST8:Aug 69:1713:6739
See August J. Durelli, EM4:Aug 70:407:7481

Parme, Alfred L.
Arch Dam Layout Facilitated by Use of Computer, PO2:Oct 67:69:5523
  Dsc: Ronald Sharpe, PO2:Nov 68:245:6201
  TR:135:506
Rapid Construction - Design Considerations, RCCD:70:151

Parmele, Leslie H.
See J. L. McGuinness, IR2:June 72:207:8943

Parmelee, Louis Ray
Memoir of, TR:139:570

Parmelee, Richard A.
Seismic Design of Soil-Structure Systems, with John H. Wronkiewicz, ST10:Oct 71:2503:8437
  TR:137:1035
Seismic Response of Structure-Foundation Systems, with David S. Perelman, Seng-Lip Lee and Leon M. Keer, EM6:Dec 68:1295:6264
  Dsc: Farrokh N. Screwvala, EM3:June 69:799:6580; Johann H. Rainer, EM5:Oct 69:1290:6800
  Clo: EM3:June 70:368:7309
  TR:135:947
See William Y.J. Shieh, EM5:Oct 68:1089:6176
See David S. Perelman, ST11:Nov 68:2597:6235
See Raymond J. Krizek, SM12:Dec 72:1347:9421
See Michael J. O'Rourke, ST2:Feb 74:476:10306
See John F. Wiss, ST4:Apr 74:773:10495

Parmeter, David L.
Is Management The Answer?, CE:May 73:89
  Dsc: Norman D. Falk, CE:Oct 73:26

Parnes, Raymond
Dynamic Response of Imbedded Cylindrical Shell, EM2:Apr 71:421:8073
  TR:137:894

Parr, Dennis H.
Ultimate Design of Hollow Thin-Walled Box Girders, ST7:July 72:1427:9021
  Dsc: Sanivarapu V. Narasimham and Karl Van Dalen, ST7:July 73:1653:9826
  Clo: ST4:Apr 74:815:10442
  TR:139:85

Parrett, Charles
Flood Plain Management in Montana, HYB:Aug 73:85

Parrillo, D.
See A. Depman, RM13:72:443

Parrillo, Thomas P.
See Sudershan Malhotra, SA5:Oct 71:629:8432

Parsanejed, S.
See S. Covarrubias, TB:73:C-AC11-63

Parsons, Donald A.
Dsc, with William C. Harmon, HY4:Apr 73:687:9637, of "Flow Processes in Open Channel Bends", HY5:May 72:795:8886
Dsc, HY8:Aug 74:1162:10696, of "Rainfall Effect on Sheet Flow Over Smooth Surface", HY5:May 73:771:9733

Parsons, Roland M.
System for Control of Construction Quality, CO1:Mar 72:21:8757
  TR:138:159

Parsonson, Peter S.
Annual Surveillance of Urban Traffic Growth, TE3:Aug 72:679:9113
  TR:138:346
Instruction in Urban Planning for Civil Engineers, UP1:Mar 70:23:7127
  Dsc: Myron M. Jacobs, UP2:Oct 70:166:7571
  Clo: UP2:Dec 71:241:8558
  TR:136:1303

Partenscky, Hans-Werner
See Calude Marche, CE13:72:III-2395

Partheniades, Emmanuel
Coastline Changes Near a Tidal Inlet, with James A. Purpura, CE13:72:II-843
Erodibility of Channels With Cohesive Boundary, with Robert E. Paaswell, HY3:Mar 70:755:7156
  Dsc: Rakhishwar N. Bhasin, HY9:Sept 70:1918:7497; Muthusamy Krishnamurthy and K. V.N. Sarma, HY12:Dec 70:2658:7711; Thomas Blench, HY12:Dec 70:2659:7711
  Clo: HY12:Dec 71:2078:8552
  TR:137:19
Dsc, with Paul H. Blinco, HY1:Jan 69:515:6323, of "Measurement of Turbulence in Water", HY2:Mar 68:411:5855
Dsc, HY3:May 69:10:6524, of "Erosion of Cohesive Sediments, Task Commitee on Erosion of Cohesive MaterialH", HY4:July 68:1017:6044
Dsc, HY1:Jan 70:264:6988, of "Salinity Intrusion Effects in Estuary Shoaling", HY1:Jan 69:9:6340
Dsc, with Paul H. Blinco, HY1:Jan 70:272:6988, of "Some Turbulence Measurements in Open-Channel Flow", HY1:Jan 69:209:6349

Parti, Ernest W.
See Tung Au, CO1:July 69:1:6645
See Tung Au, CO1:July 69:11:6646
See Tung Au, CO1:July 69:25:6647
See Tung Au, PP4:Oct 72:693:9286

Partos, Antal
See Robert M. Koerner, GT3:Mar 74:265:10405

Partridge, Lawrence J., Jr.
Multivariate Study of Refuse Collection Efficiency, with Joseph J. Harrington, EE4:Aug 74:963:10729
Dsc, SA2:Apr 72:467:8800, of "Cost of Residential Solid Waste Collection", SA5:Oct 71:563:8403

Paslay, Paul R.
Analysis of the Triaxial Test for Granular Soils, with Jay B. Weidler, EM3:June 69:587:6611
  TR:136:1063
Stability of a Submerged Stiffened Cylinder, EM6:Dec 67:179:5690
  TR:135:388
See Jay B. Weidler, EM2:Apr 69:379:6491
See Jay B. Weidler, EM4:Aug 70:395:7475

Passonneau, Joseph R.
Full Compensation and Transportation Corridor Analysis, TE2:May 73:393:9746
TR:139:319
Neighborhood Objectives as Generators of Regional Transportation Networks, UP2:Sept 73:217:10032
TR:139:547
Dsc, CE:Sept 72:61, on Cable Suspended Roof for Munich Olympics, CE:July 72:41

Patarapanich, Mana
See Richard Silvester, CE13:72:III-2171

Patel, Jayant P.
Dsc, with Arvind P. Mody, HY12:Dec 70:2620:7711, of "Channel Slope Effect on Peak Discharge of Natural Streams", HY2:Feb 70:307:7052

Patel, Kanu S.
Computer-Aided Design-Standard Oil of Indiana Building, with Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4:Apr 73:621:9643
Errata: ST3:Mar 74:706:10381
TR:139:282

Patel, Y. A.
See F. L. Cho, SDNPF:Dec 73:343

Paton, John
Dsc, PWS:Nov 72:91, of "Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment", PWS:Nov 72:81
Dsc, PWS:Nov 74:31, of "The Engineer and the Crisis of the Cities", PWS:Nov 72:19

Paton, Thomas A.L.
Historical Impact of Transportation Systems, Power Plants, Water Resources Projects on the Environment, PWS:Nov 72:81
Dsc: John Paton, PWS:Nov 72:91; Samuel S. Baxter, PWS:Nov 72:115; William W. Moore, PWS:Nov 72:116

Patrick, Donald A.
Construction Contracting Systems, by William J. Gregg, Philip G. Read, and Ralph C.nash, Jr. (Book Reviewe, CE:Feb 71:14
Multi-year Construction Contracts, CE:Jan 71:65
TR:137:74

Patrick, James G.
Development of Wells Hydroelectric Project, PO2:Mar 71:267:7967
TR:137:873
Wells Dam: Powerplant and Spillway Combined, with Harris H. Burke, Robert T. Loder and Michael W. Erho, CE:Oct 70:61
TR:136:1061

Patterson, Garry J.
See Frederick L. Moreadith, PO2:Nov 73:427:10111
See Chang Chen, PO2:Nov 73:429:10111
See Frederick L. Moreadith, SDNPF:Dec 73:201

Patterson, James W.
Dsc, with Patrick L. Brezonik, SA4:Aug 70:775:6706, of "Problems of Toxicity Measurements in Activated Sludge", SA2:Apr 68:247:5894
See Patrick L. Brezonik, SA6:Dec 71:813:8581

Patterson, Theodore C.
Water Use and Production of Trickle Irrigated Onions, IR73:Aug 73:317

Patton, E. L.
The Trans-Alaska Pipeline Story, TE1:Feb 73:139:9573
Dsc: A. Roger Kelly, TE3:Aug 73:689:9896; Andrew C. Palmer, TE1:Feb 74:284:10307
Clo: TE4:Nov 74:999:10901
TR:139:215

Patton, F. D.
See Don U. Deere, 4PCSM:71:I87

Paul, Charles Kendall
Theoretical Weighting of Photogrammetric Equations, SU2:Nov 72:127:9346
Dsc: Hartmut Zieman, SU1:Sept 73:142:9965
TR:139:302

Paul, M. J.
Similarity of Equilibrium Beach Profiles, with J. William Kamphuis and A. Brebner, CE13:72:II-1217

Paul, Stanley L.
Structural Behavior of Prestressed Concrete Reactor Vessels, ST7:July 71:1879:8249
Dsc: Roland L. Sharpe and Garrison Kost, PO1:June 72:172:8927
TR:137:696

Paulay, Thomas
Coupling Beams of Reinforced Concrete Shear Walls, ST3:Mar 71:843:7984
TR:137:395
Simulated Seismic Loading of Spandrel Beams, ST9:Sept 71:2407:8365
TR:137:767
See R. C. Fenwick, ST10:Oct 68:2325:6167

Paulding, Bartlett W., Jr.
Coefficient of Friction of Natural Rock Surfaces, SM2:Mar 70:385:7121
Dsc: James V. Hamel, SM5:Sept 70:1833:7499
Clo: SM4:Apr 71:685:8014
TR:136:538

Paulsen, Lloyd D.
See Donald C. Tillman, UP2:Nov 74:191:10935

Paulson, Boyd C., Jr.
Civil Engineering: An Education for Professional Management, CEE:Feb 74:1-580
Man-Computer Concepts for Planning and Scheduling, CO2:Sept 72:275:9204
TR:138:546
Project Planning and Scheduling: Unified Approach, CO1:July 73:45:9830
TR:139:321

Pauw, Adrian
Tensile Ties in Precast Concrete Systems, TB:73:III-23-623
See Bohdan Lewicki, TB:73:III-21-171

Pavate, Trimbak V.
See Ramanath K. Katti, GT8:Aug 74:953:10695

Pavone, Anthony
Comprehensive Public Water Supply Planning, SA5:Oct 71:745:8450
TR:137:1035

Pavoni, Joseph L.
Dsc, with D. Joseph Hagerty, SA2:Apr 71:243:8013, of "Adsorption of Pesticides by Clay Minerals", SA5:Oct 70:1057:7603
See Wayne F. Echelberger, Jr., NSCD:71:563
See D. Joseph Hagerty, SA3:June 71:384:8157
See Wayne F. Echelberger, Jr., SA5:Oct 71:721:8472

Pawka, Steven S.
Study of Wave Climate in Nearshore Waters, WAVES:Sept 74:745

Paxson, George S.
Memoir of, TR:139:571

Payne, Harold J.
Freeway Traffic Control and Surveillance Model, TE4:Nov 73:767:10124
TR:139:484

Payne, Kip
Daily Streamflow Simulation, with W. R. Neuman and Kenneth D. Kerri, HY4:July 69:1163:6665
  Dsc: Krishan P. Singh, HY4:Apr 70:1046:7189; David McGinnis, Jr. and William H. Sammons, HY5:May 70:1201:7248
  Clo: HY1:Jan 71:167:7783
  TR:136:140

Payne, Meredith L.
See E. Gordon Kruse, TN: IR4:Dec 70:503:7752
See Howard R. Haise, TN: IR3:Aug 72:517:9160

Payton, Aubrey E.
Dsc, with Audrey P. Rabb, CO1:July 73:218:9822, of "Pertinent Techniques for Compacting Concrete", CO2:Sept 72:173:9181

Pazwash, Hormoz
Fluid-Dynamic Consideration Of Bottom Materials, with James M. Robertson, CEO-II:70:1135
Fluid-Dynamic Consideration of Bottom Materials, with James M. Robertson, HY9:Sept 71:1317:8374
  Dsc: Robert L. McFall, HY4:Apr 72:728:8799
  Clo: HY12:Dec 72:2222:9391
  TR:138:18
See W. Hall C. Maxwell, HY4:Apr 73:637:9675

Peacock, Harold G.
CERC Field Wave Gaging Program, WAVES:Sept 74:170

Peacock, William H.
Sand Liquefaction Under Cyclic Loading Simple Shear Conditions, with H. Bolton Seed, SM3:May 68:689:5957
  Dsc: Jogeshwar P. Singh, SM4:July 69:1118:6643
  Clo: SM5:Sept 69:1276:6754
  TR:135:181
See H. Bolton Seed, SM8:Aug 71:1099:8330

Pearce, Marcelle G.I.
Dsc, SU1:Apr 70:116:7192, of "Slope Taping", SU2: Sept 68:137:6098

Pearson, James R.
Impact Statements -- Present and Potential, PP4:Oct 73:449:10066
  Dsc: Joel E. Haggard, EI4:Oct 74:363:10835
  TR:139:454

Pearson, Morris W.
See B. Frank McCullough, TE4:Nov 74:921:10929

Peattie, Kenneth R.
Dsc, TE3:Aug 73:685:9896, of "Current Methods For Improved Tire-Pavement Interaction", TE4:Nov 72: 915:9347
Dsc, TE3:Aug 73:688:9896, of "Dynamic Response of Model Pavement Structure", TE4:Nov 72:1005: 9363

Peck, D. A.
See R. P. Kassawara, SDNPF:Dec 73:73

Peck, Eugene L.
Effect of Snow Cover on Upward Movement of Soil Moisture, IR4:Dec 74:405:10989

Peck, Ralph B.
Experience in Teaching Engineering Judgment by Case Histories in Foundation Engineering, with Herbert O. Ireland, CEE:Feb 74:1-187
Soil-Structure Interaction, PES:73:II-145
Soil-Structure Interaction -- Opening Remarks, PES: 73:III-249
Dsc, with Abdel Rahman S. Bazaraa, SM3:May 69: 905:6525, of "Settlement of Spread Footings on Sand", SM3:May 68:735:5959
Dsc, 4PCSM:72:III59, of "The Standard Penetration Test", 4PCSM:71:I1
Dsc, 4PCSM:72:III126, of "Slope Stability in Residual Soils", 4PCSM:71:I87
See J. Ronald Sallen, PO2:Oct 69:227:6841
See D. Joseph Hagerty, SM11:Nov 71:1513:8497

Peckham, Richard C.
Role of Ground Water in Texas Water Plan, IR1:Mar 68:137:5874
  TR:135:536

Peckham, William T.
See Harold D. Pritchett, CEE:Feb 74:1-670

Pecknold, David A.
Finite-Element Analysis of Skewed Shallow Shells, with William C. Schnobrich, ST4:Apr 69:715:6523
  TR:136:725
Inelastic Structural Response to 2D Ground Motion, EM5:Oct 74:949:10846
See William C. Schnobrich, ST8:Aug 72:1885:9079
See William C. Schnobrich, ST10:Oct 72:2327:9227
See Frank R. Hand, ST7:July 73:1491:9860
See A. Emin Aktan, ST10:Oct 74:1999:10864

Peddieson, John, Jr.
Finite Deflections of Circular Membranes, TN: EM3: June 73:634:9765
See Chien-Yung Wei, TN: EM4:Aug 71:1343:8273

Peddle, Thorp and Walker
AMP Centre, TB:73:C-P-402
Bank of New South Wales, TB:73:C-P-408
Exchange Centre, TB:73:C-P-406
Royal Exchange Building, TB:73:C-P-414

Pedersen, B.
See O. G. Houmb, WAVES:Sept 74:25

Pedersen, Flemming Bo
Gradually Varying Two-Layer Stratified Flow, HY1: Jan 72:257:8679
  Errata: HY3:Mar 73:534:9580
  TR:138:155
Gradually Varying Two-Layer Stratified Flow in Fiords, ISSF:Aug 72:415
Dsc, HY2:Feb 72:397:8681, of "Two-Dimensional Surface Warm Jets", HY6:June 71:819:8186
See Frank Engelund, HY3:Mar 73:405:9588

Pedersen, Pauli
Optimal Joint Positions for Space Trusses, ST12:Dec 73:2459:10199
  TR:139:524

Peeples, Henry Cook
Memoir of, TR:135:1139

Peer, Shlomo
Economic Analysis of Housing Construction Methods, with Abraham Warszawski, CO2:Sept 72: 287:9166
  TR:138:355
Network Analysis and Construction Planning, CO3: Sept 74:203:10792

Peir, Jong-Cherng
Spatial and Temporal Variability of Live Loads, with C. Allin Cornell, ST5:May 73:903:9747
  Dsc: David T. Bickley, ST7:July 74:1528:10637
  TR:139:333
See Alfred G. Bishara, ST12:Dec 68:2913:6305

Peirce, Robert W.
Dsc, PO1:Jan 71:258:7784, of "Basic Structural Design of Concrete Chimneys", PO3:June 70:309: 7334
Dsc, PO1:Jan 71:264:7784, of "Concrete Chimney Design, Construction and Operation", PO3:June 70: 449:7368

Pekor, Charles B.
Dsc, Bidding Move Overdue, CE:Mar 72:69

Pekoz, Teoman B.
Torsional-Flexural Buckling of Thin-Walled Sections Under Eccentric Load, with George Winter, ST5: May 69:941:6571
TR:135:125
See John T. DeWolf, ST10:Oct 74:2017:10875

Pell, Elwin M.
Multi-level Parking Structure, CE:Feb 69:49
TR:135:132

Pell, Peter S.
See James McElvaney, TE3:Aug 74:701:10730

Pellegrini, Sergio E.
Construction in South America, State-of-Art Report 5, TB:73:Ia-12-1135

Pen, M.
See E. M. Davis, NSCD:71:539

Pence, George D.
Time-Varying Dissolved Oxygen Model, with John M. Jeglic and Robert V. Thomann, SA2:Apr 68: 381:5915
Dsc: Richard H. Gould, SA5:Oct 68:1041:6485; Joseph S. Mamelak and Joseph V. Radziul, SA2:Apr 69:365:6485
Clo: SA1:Feb 70:179:7046
TR:135:582

Pendakur, V. Setty
Accessibility and Environmental Quality, with Gerald R. Brown, UP1:Apr 69:43:6518
Dsc: Jeromy C. Barford, UP1:Mar 70:100:7119
Clo: UP2:Oct 70:164:7571
Dsc, with K. Sukumaran, TE4:Nov 71:717:8486, of "Planning for Campus Traffic and Parking", TE1: Feb 71:63:7880
Dsc, with Henry Ropertz, UP2:Dec 71:246:8558, of "A Program For New Towns", UP1:Apr 71:55: 8059
Dsc, with Henry Ropertz, UP1:Mar 73:121:9584, of "Games for Simulating Urban Development Process", UP2:Dec 71:149:8568

Penman, Alexander
Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, CE:Nov 73:65
TR:139:502

Penman, Arthur D.
Constructional Deformations in Rockfill Dam, with Andrew Charles, SM2:Feb 73:139:9560
Dsc: Nigel A. Skermer, SM8:Aug 73:644:9892; David J. Naylor and D. Barrie Jones, SM12: Dec 73:1170:10184; Daniel Resendiz, GT3:Mar 74:370:10378
Errata: GT8:Aug 74:952:10695
Clo: GT10:Oct 74:1159:10838
TR:139:250
Dsc, 4PCSM:72:III218, of "Accuracy of Field Deformation Measurements", 4PCSM:71:I313

Penn, Henry
Memoir of, TR:136:1361

Pentz, D. L.
See C. O. Brawner, RM13:72:329

Penzien, Joseph
See Mostafa Dibaj, SM2:Mar 69:541:6453
See Anil K. Malhotra, CEO-II:70:65
See Anil K. Malhotra, ST10:Oct 70:2155:7626
See Anil K. Malhotra, EM6:Dec 70:985:7777
See Te-ming Hsueh, TE3:Aug 74:743:10755
See Maharaj K. Kaul, EM5:Oct 74:1025:10884

Perchat, J.
Serviceability Factors, State-of-Art Report 5, TB:73: III-26-923

Peregrine, D. Howell
Surface Shear Waves, HY9:Sept 74:1215:10809

Perelman, David S.
Seismic Response of Single-Story Interaction Systems, with Richard A. Parmelee and Seng-Lip Lee, ST11:Nov 68:2597:6235
Dsc: Ramzi H. Ferahian, ST7:July 69:1591:6644; Alberto Castellani, ST8:Aug 69:1779:6707
Clo: ST3:Mar 70:727:7116
TR:135:809
See Richard A. Parmelee, EM6:Dec 68:1295:6264

Perez, Adrian J.
Estimating Beam Size, CE:Dec 71:67
Dsc: Winfield A. McCracken, CE:Apr 72:65
TR:137:815

Perez, Armando I.
Simulation Model for Flow Augmentation Costs, with John C. Schaake, Jr. and Edwin E. Pyatt, HY1:Jan 70:131:7026
TR:136:429

Perez, Himerio J.
See Henry Liu, HY7:July 71:923:8235

Perez M., Andres
Circular Discontinuously Braced Excavation (In Spanish), 4PCSM:71:II203
Dsc, 4PCSM:72:III241, of "Financial Tools for a Geotechnical Consulting Firm", 4PCSM:71:II345

Peri, Gideon
See David Karmeli, IR3:Sept 74:309:10831

Perkins, Bertram L.
Cost Reduction Considerations for New Dam Projects, ECCD:72:489

Perloff, William H.
Embankments on Soft Ground -- Reporter's Summary, PES:73:III-49
See George Y. Baladi, SM1:Jan 69:431:6324
See William R. Judd, URC:72:487

Perold, Roland P.
Economic Pipe Sizing for Gravity Sprinkler Systems, IR2:June 74:107:10583
Economic Pipe Sizing in Pumped Irrigation Systems, IR4:Dec 74:425:10988

Perrine, Richard L.
See Richard M. Clever, HY3:Mar 73:485:9611

Perrone, Nicholas
Response of Rate-Sensitive Frames to Impulsive Loads, EM1:Feb 71:49:7890
TR:137:880

Perrotta, J. H.
See S. Redner, PL1:Oct 68:107:6180

Perrott, Lyon, Timlock & Kesa
Nauru House, TB:73:C-P-428

Perry, Byrne
See Joseph M. Colonell, WW2:May 68:159:5941
See Theodor R. Mogel, 12CEC:71:899

Perry, Peter G.
Rapid Design of Orthotropic Floor Beams, with Conrad P. Heins, Jr., ST11:Nov 72:2491:9326
TR:138:526

Persons, Bob
Dsc, CE:Feb 71:66, on Is Technology Relevant?, CE: Oct 70:44

Perumalswami, Parambakatoor R.
Earthquake Hydrodynamic Forces on Arch Dams, with Lakshmidhar Kar, EM5:Oct 73:965:10060
TR:139:455

Pesman, Gerard H.
Dsc, SU2:Nov 71:337:8487, of "Coordinates Versus Confusion", SU2:Sept 70:191:7528

Peterka, Alvin J.
Dsc, HY11:Nov 73:2149:10109, of "Damage to Karnafuli Dam Spillway", HY12:Dec 72:2155:9452

Petermann, Thomas E.
Railroad Crossings at Berwick Bay, CO1:July 73:93:9833
  Errata: CO2:June 74:189:10563
  TR:139:363
Removal of Timber Piles in Deep Water, CE:Aug 69:56
  TR:135:610

Peters, John
See Bill S. Eichert, HY7:July 70:1455:7412

Peters, John C.
Impact on Fish and Wildlife from Land-Use Practice, IAWM:72:387
Montana Highway and Wildlife Professions Cooperate, CE:Nov 70:58
  Dsc: Montana's Preservation System, John C. Peters, CE:Apr 71:71
  TR:136:1123
Dsc, CE:Apr 71:71, on Montana Highway and Wildlife Professions Cooperate, CE:Nov 70:58
See Peter W. France, IR1:Mar 71:165:7959

Peters, John H.
Water Conservation by Reclamation and Recharge, with John L. Rose, SA4:Aug 68:625:6065
  Dsc: C. Charles Evans, SA4:Aug 69:790:6706
  Clo: SA3:June 70:841:7313
  TR:135:662

Peters, Simon
Civil Engineering Features of Geothermal Power Plant, PO2:Dec 74:157:11000

Peters, Stanley L.
New Directions and Techniques in Highway Location Planning, TE2:May 74:305:10518

Petersen, C. F.
See D. A. Shockey, RM14:73:709

Peterson, Allan W.
See Richard H. Cooper, HY9:Sept 70:1880:7497
See Richard H. Cooper, TN: HY10:Oct 70:2167:7575
See Richard H. Cooper, HY5:May 72:827:8873

Peterson, C. B.
A Space Shuttle Design Consideration, ESE:Apr 70:29

Peterson, Carl R.
Force Reduction in Excavation Devices, CO1:July 73:21:9845
  TR:139:525

Peterson, D. E.
Thermal Capacity of Our Nation's Waterways, with John C. Sonnichsen, Jr., S. L. Engstrom and P. M. Schrotke, PO1:May 73:193:9736
  Clo: PO1:July 74:135:10636
  TR:139:308

Peterson, Dean F.
See S. Abdollah Jenab, IR3:Sept 69:361:6768
See J. K. Virmani, HYB:Aug 73:73

Peterson, Edward W.
Soft-Ground Tunneling Technology on the BART Project, with Peter Frobenius, CE:Oct 71:72
  Dsc: Robert S. Mayo, CE:Mar 72:39
  TR:137:636
Tunnel Survey and Tunneling Machine Control, with Peter Frobenius, SU1:Sept 73:21:10008
  Dsc: Ralph J. Angarola, Jr., SU2:Nov 74:175:10900
  TR:139:467

Peterson, Floyd D.
Peterson Named to Sanitary Post, CE:Feb 72:79

Peterson, Frank L.
See Doak C. Cox, HY12:Dec 71:2095:8552

Peterson, George L.
Civil Engineering and Urban Systems, with Robert S. Gemmell and Richard D. Worrall, UP1:Apr 69:1:6501
  TR:135:308
See Harvey O. Haack, UP2:Dec 71:149:8568
See Gorman Gilbert, TE3:Aug 72:691:9112

Peterson, Jerald P.
Enhanced Dispersion in Drag Reducing Open Channel Flow, with Walter E. Castro, Paul B. Zielinski and William F. Beckwith, HY6:June 74:773:10622

Peterson, Theodore I.
See Pran N. Wahi, SA5:Oct 72:693:9253

Peterson, William S.
Dsc, with Celal N. Kostem and John M. Kulicki, ST9:Sept 74:1980:10772, of "Full Range Analysis of Eccentrically Stiffened Plates", ST1:Jan 74:143:10286

Petersson, Hans
See Gunnar Karrholm, TB:73:III-21-302

Petrauskas, Charles
Dsc, WW2:May 71:414:8086, of "Regression Model of Wave Forces on Ocean Outfalls", WW2:May 70:289:7275

Petroni, Ricardo V.
See Chiang C. Mei, WW2:May 73:209:9700

Petrov, V. P.
See V. N. Anuchin, ISSF:Aug 72:527

Petryk, Sylvester
Direct Measurement of Shear Stress in a Flume, with Hsieh W. Shen, TN: HY6:June 71:883:8161
Dsc, EM5:Oct 69:1288:6800, of "Influence of Secondary Flow on Drag Force", EM5:Oct 68:1249:6193
Dsc, HY10:Oct 74:1491:10839, of "Energy Losses at 90° Pipe Junctions", HY9:Sept 73:1353:10022

Pettersson, Ove
Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, TB:73:Ib-8-585

Pettibone, Howard C.
Engineering Properties of Mine Tailings, with C. Daniel Kealy, SM9:Sept 71:1207:8382
  Dsc: Melvin W. Jackson, SM4:Apr 72:437:8801
  Clo: SM12:Dec 72:1404:9394
  TR:137:1007

Pettigrew, Neal
See Choule J. Sonu, WAVES:Sept 74:621

Pettis, Charles Robert
Memoir of, TR:135:1140

Pettitt, Roland A.
Bridge Deck Protection and Resurfacing, ST4:Apr 70:791:7217
  Dsc: John W Frazier, ST11:Nov 70:2546:7644
  Clo: ST6:June 71:1805:8159
  TR:136:909
Rapid Determination of Plasticity Index, CE:May 71:74
  Dsc: Elias Zolkov, CE:Dec 71:47; Wayne G. O'Hara, CE:Dec 71:59
  TR:137:373

Petulla, Louis W.
See Stewart F. Taylor, TE2:May 70:175:7277

Peurifoy, Robert L.
Dsc, CO1:July 69:135:6640, of "Optimizing Haul Fleet Size Using Queueing Theory", CO1:Jan 68:75:5753

Peyronnin, Chester A., Jr.
Evolution of Tidewater Port, WW2:May 70:387:7287
 Dsc: Gerald A. Leonards and Adolph G. Altschaeffl, SM1:Jan 71:269:7785
 TR:136:949

Peyrot, Alain H.
Probabilistic Response of Nonlinear Buildings During Earthquakes, ST11:Nov 72:2363:9328
 TR:138:531

Pfaffinger, Dieter D.
Column-Plate Interaction in Flat Slab Structures, ST1:Jan 72:307:8670
 Dsc: A. Akesson, ST12:Dec 72:2825:9395
 Clo: ST6:June 73:1324:9763
 TR:139:26

Pfeffer, Fred M.
See Marion R. Scalf, SA5:Oct 69:817:6817

Pfeffer, Jerry L.
See Reed H. Winslow, TE4:Nov 72:757:9354

Pfeffermann, O.
Reinforced Masonry and the Pathology of Masonry, TB:73:III-27-1088

Pfeifer, Donald W.
Full-Size Lightweight Concrete Column4, ST2:Feb 71:495:7903
 Dsc: Benjamin E. Lazar, ST7:July 71:2031:8225
 TR:137:375
Reinforced Lightweight Concrete Columns, ST1:Jan 69:57:6362
 Errata: ST12:Dec 69:2990:6932
 TR:135:920

Pfister, Hans J.
Industry Builds on a Refuse Dump, CE:Nov 72:50
 TR:138:487

Pfitzenmeyer, H. T.
See David A. Flemer, SA4:Aug 68:683:6081

Phang, Michael K.S.
See Ali A. Hamoudi, ST12:Dec 74:2403:11011

Phelps, Richard R.
Bachelor of Civil Engineering Technology at the University of North Carolina at Charlotte, CEE:Feb 74:1-254

Philip, M. Hugh
See David H. Trollope, SM2:Feb 72:235:8683

Philipps, Donald C.
See Darrell W. Monroe, NSCD:71:163

Philleo, Robert E.
Introductory Remarks, ECCD:72:31

Phillips, Charles J.
See Edward G. Nawy, ST9:Sept 71:2203:8353

Phillips, Donald C.
See Darrell W. Monroe, SA2:Apr 72:287:8819

Phillips, H. Boyd
Analog of Ground Water in East-Central New Mexico, with Harris R. McDonald, IR1:Mar 69:27:6435
 Dsc: Robert A. Longenbaugh and Gary L. Guymon, IR4:Dec 69:639:6930
 Clo: IR3:Sept 70:345:7498

Phillips, James W.
Contact Stresses in Twisted Wire Cables, with George A. Costello, EM2:Apr 73:331:9676
 TR:139:301
See George A. Costello, TN: EM5:Oct 74:1096:10856

Phillips, John O.
Electronic Traverse Versus Triangulation, SU2:Oct 67:29:5491
 Clo: SU1:Oct 69:172:6084
 TR:135:433

Phillips, Robert D.
Phillips Assumes Meetings Post, CE:Sept 73:110

Phillips, Robert V.
Brittle Fracture of Steel Pipe Analyzed, with Stephen M. Marynick, CE:July 72:70
 Dsc: James F. Sato, CE:Sept 72:57
 TR:138:345

Phillips, Rufus C., III
Application of Computers to Airport Planning and Design, TE3:Aug 70:341:7472
 TR:136:1160

Phillips, Thorton A.
Reliability of Electric Power Supplies, EPCE:Aug 74:7

Piasecki, F. N.
The Role of VTOL Aircraft in Urban Mass Transportation, NA:Mar 71:85

Piasecki, Richard J.
Dsc, CE:Oct 70:51, on A Hard Look at Civil Engineering Salaries, CE:May 70:33

Pica, Marco
Dsc, HY1:Jan 69:487:6323, of "Scale Effects in Swirling Flow", HY1:Jan 68:285:5767
See Michele Viparell, HY2:Dec 70:622:7711

Picard, Andre
See Arthur D. Edwards, ST12:Dec 72:2687:9428

Picardi, E. Alfred
Standard Oil of Indiana Building in Chicago, TB:73:C-P-244
Structural System- Standard Oil of Indiana Building, ST4:Apr 73:605:9642
 TR:139:282

Pichumani, Raman
Finite Element Analysis of Pile-Supported Pavement Structures, with John E. Crawford and George E. Triandafilidis, TE2:May 74:293:10516
Prismatic Solid Analysis of Pavement Structures, with John E. Crawford, GT74:June 74:303

Pickens, Patrick R.
Transportation Planning for Urban School Systems, with John M. Tyler, TE2:May 74:461:10555

Pickering, Dennison J.
Drained Liquefaction Testing in Simple Shear, TN: SM12:Dec 73:1179:10189
See W. D. Liam Finn, SM6:Nov 70:1917:7670
See W. D. Liam Finn, SM4:Apr 71:639:8039

Pickett, Ellis B.
See Robert W. Whalin, WAVES:Sept 74:466

Pickett, Richard M., Jr.
See Moshe F. Rubinstein, TN: EM2:Apr 73:429:9641

Pickford, John
See Y. R. Reddy, SA4:Aug 72:609:9093
See Y. R. Reddy, EE3:June 73:177:9794
See Y. R. Reddy, HY11:Nov 74:1685:10969

Piech, Kenneth R.
Aerial Color Analyses of Water Quality, with J. E. Walker, SU2:Nov 71:185:8507
TR:137:1033

Pierce, Bernard T.
The Flood Management Project for Atchison, Kansas, IAWM:72:209

Pierce, Ira N.
Eastern Younger Member Conference Organized, CE:Aug 71:48
Philadelphia Regions' Urban Corridor Demonstration Program, NA:Mar 71:161

Pierce, Jack W.
Professionalism and Unionization-Starting a Program, PP1:Sept 70:25:7550
TR:136:962

Pierce, L. F.
Oregon Gets a Segmental Post-Tensioned Bridge, CE:Mar 72:67
TR:138:151

Pierce, Louis D.
See Robert W. Kwiatkowski, PO1:May 73:205:9738

Piercy, John P.
Dsc, CE:Mar 73:89, on Specialty Registration for Engineers, CE:Dec 72:32

Pietsch, Milton F.
See Anthony L. Read, IR3:Sept 73:403:9962

Pigeon, Yves
Manicouagan 3 Cut-Off, EFFD:Mar 74:289

Pignataro, Louis J.
Selected Bus Demonstration Projects, with John C. Falcocchio and Roger P. Roess, TE3:Aug 70:251:7454
TR:136:947

Pikarsky, Milton
Chicago's Crosstown Expressway, CE:Sept 70:84
TR:136:800
Chicago's Northwest Incinerator, CE:Sept 71:55
TR:137:552
The City Viewpoint on Environmental Issues, UT73:May 73:1
The Engineer and the Crisis of the Cities, PWS:Nov 72:19
Dsc: J. Peter Cunliffe, PWS:Nov 72:29; John Paton, PWS:Nov 74:31; William W. Moore, PWS:Nov 72:33; William H. Wisely, PWS:Nov 72:34
Clo: PWS:Nov 72:35
The Legislation of Balance, TE3:Aug 73:483:9938
TR:139:412
Sixty Years of Rock Tunneling in Chicago, CO2:Nov 71:189:8504
TR:137:975
Some Thoughts on Urban Transportation Goals and Objectives, NA:Mar 71:25
Dsc, PWS:Nov 72:197, of "Role of Government in Public Works", PWS:Nov 72:187

Pikul, Mary F.
See Eduardo Aguado, HY7:July 74:869:10639

Pilkey, Walter D.
Lumped Parameter Model for Stability Analysis, with Kevin J. O'Connor, TN: ST7:July 73:1702:9828
Dsc, CE:Oct 74:24, on Sources of Computer Programs, CE:June 74:51

Pillai, N. Narayana
Dsc, HY4:Apr 70:1066:7189, of "On the Concept of Mean Hydraulic Radius", HY4:July 69:1305:6691

Pillai, Unnikrishna S.
Hollow Tubular Beam-Columns in Biaxial Bending, with John S. Ellis, ST5:May 71:1399:8094
TR:137:438
Ultimate Strength of Cellular Flat Plate, with K. Sapru, TN: ST5:May 74:1162:10536
See John F. Lott, ST5:May 71:1445:8108

Pillsbury, Arthur F.
Environmental Quality in California, CE:July 73:50
Dsc: Raphael G. Kazmann, CE:Dec 73:22
Clo: CE:Apr 74:28
TR:139:275
Problems of Water Quality Management in Western River Basin Systems, IR73:Aug 73:729

Pilon, J. J.
Wave Gages in Coastal Areas, WAVES:Sept 74:585

Pilot, Georges
Study of Five Embankment Failures on Soft Soils, PES:72:I-81

Pincince, Albert B.
Oxygen Relationships in Intermittent Sand Filtration, with Jack E. McKee, SA6:Dec 68:1093:6295
Errata: SA6:Dec 69:1182:6931
TR:135:789
See E. J. List, HY10:Oct 73:1888:10037

Pincus, George
Behavior of Wood-Concrete Composite Beams, ST10:Oct 70:2009:7592
TR:136:1170
Bonded Wood-Concrete T-Beams, ST10:Oct 69:2265:6842
Dsc: Gajanan M. Vaidya, ST5:May 70:1001:7250
Clo: ST11:Nov 70:2527:7644
TR:136:314
Marketing Principles Applied to Engineering Education, CEE:Feb 74:1-1006
See Abolhassan Vafai, ST6:June 73:1205:9788

Pinder, George F.
See Peter C. Trescott, WW3:May 70:1115:7264

Pingry, David E.
Application of Multigoal Water Quality Planning Model, with Andrew B. Whinston, EE1:Feb 74:61:10322
Multigoal Water Quality Planning Model, with Andrew B. Whinston, EE6:Dec 73:909:10208
TR:139:515

Pinjarkar, Suresh G.
See Kuang-Han Chu, ST10:Oct 71:2481:8453

Pinkayan, Subin
Routing Storm Water Through a Drainage System, HY1:Jan 72:123:8642
Errata: HY12:Dec 72:2243:9391
TR:138:102

Pinkham, C. W.
Evaluation of Earthquake Damage, State-of-Art Report 5, TB:73:Ib-6-229

Pinkham, Richard E.
Novel Features on Lindenwold Line, TE2:May 72:367:8892
TR:138:187

Pinkney, Bruce R.
See Egor P. Popov, ST3:Mar 69:327:6441

Pinnell, Steven S.
Turnkey Contracts for Sewage Treatment Plants?, CE:Jan 74:86

Piper, Heinz P.
Hannover Regional Complex Including Airport, TE2:May 69:245:6534
TR:136:1233

Pipes, D. M.
Dsc, with W. G. Characklis and J. V. Matson, EE1: Feb 74:225:10302, of "Substrate Removal Mechanism of Trickling Filters", EE3:June 73:187: 9769

Pipes, Wesley O.
Issues of Environmental Engineering Education, CEE:Feb 74:1-496
Recommendations for Environmental Engineering Education, EE2:Apr 74:243:10459
Dsc: Paul J. Fleming, EE5:Oct 74:1194:10836

Pirie, Douglas M.
See Orville T. Magoon, CE13:72:III-2027
See Orville T. Magoon, CE13:72:III-2065

Pirtz, David
Investigation of Deteriorated Concrete Arch Dam, with Arthur G. Strassburger and Richard C. Mielenz, PO1:Jan 70:23:6997
TR:136:300

Pirtz, Joseph, Jr.
Economic Consideration for Construction, ECCD:72: 507

Pisano, William C.
See George K. Young, Jr., HY4:July 68:909:6034

Pise, Prabhakar J.
Dsc, SM5:May 71:810:8083, of "Pile Tests-Arkansas River Project", SM5:Sept 70:1545:7509
Dsc, SM5:May 71:811:8083, of "Lateral Load Tests on Piles-Arkansas River Project", SM5:Sept 70: 1583:7510
Dsc, SM5:May 71:813:8083, of "Model Study of Laterally Loaded Piles", SM5:Sept 70:1605:7511
Dsc, SM3:Mar 72:300:8751, of "Behavior of Laterally Loaded Piles: II-Pile Groups", SM5:May 71:733:8093
Dsc, 87513:Mar 72:298:8751, of "Behavior of Laterally Loaded Piles: 1-Single Piles", SM5:May 71:711:8092
Dsc, SM6:June 72:644:8929, of "Effect of Mica on K_o Compressibility of Two Soils", SM9:Sept 71: 1275:8401
See Herbert Breth, SM8:Aug 73:617:9919

Piteau, Douglas R.
Cumulative Sums Technique: A New Approach to Analyzing Joints in Rocks, with Lindsay Russell, RM13:72:1

Pitlo, R. H.
Dsc, with M. Smit, IR3:Sept 70:364:7498, of " Triangular Broad-Crested Weir", IR4:Dec 69:493: 6954

Pitts, Jack
See Stephen L. Tuttle, CEE:Feb 74:1-996

Pitts, Kerry F.
Surveys and Mapping in Water Resource Development, SU1:May 71:69:8088
TR:137:125

Pixton, Charles E.
See Robert N. Young, TE2:May 71:347:8131

Plakida, M. E.
Pressure of Waves Against Vertical Walls, 12CEC:71: 1451
Pressure Upon Vertical Walls from Overtopping Waves, CE13:72:III-1661

Plate, Erich J.
Modeling of Structures Subjected to Wind Waves, with John H. Nath, WW4:Nov 69:491:6904
TR:136:309
Rotary Flow Meter as Turbulence Transducer, with James P. Bennett, EM6:Dec 69:1307:6955
TR:136:364
Water Surface Velocities Induced by Wind Shear, EM3:June 70:295:7351
TR:136:860
See Aziz F. Eloubaidy, HY1:Jan 72:153:8651

Platou, Knut S.
Dsc, CE:Jan 73:73, on Elastomeric Bridge Bearings, CE:May 72:46

Plaut, Raymond H.
Dsc, with Koncay Huseyir, EM1:Feb 72:278:8680, of "Column Instability Under Weight and Follower Loads", EM3:June 71:629:8196

Pletta, Dan H.
Educating Engineers for Professional and Ethical Responsibility (Discussion), CEE:Feb 74:2-305
The Making of a "Pro"—A Faculty Viewpoint, EI3: July 74:217:10645
To Practice or Perish, with George A. Gray, PP1:Oct 71:131:8474
TR:137:831
Trends in Faculty Qualifications and Objectives, CEE:Feb 74:2-168
Ut Prosimus et Ducamus, CEE:Feb 74:1-459

Plinston, David
See Patrick H. Kemp, HY5:Sept 68:1183:6100

Plodowski, Thomas F.
Breakwater Built With Concrete Piles, CE:Apr 72:80
TR:138:219

Ploeg, J.
Some Results of a Directional Wave Recording Station, CE13:72:I-131

Plude, George H.
See Frederick E. Krauss, WW4:Nov 72:549:9389

Plumb, Mahlon J.
Dsc, ST5:May 70:1006:7250, of "Load Distribution in Steel Railway Bridges", ST12:Dec 69:2763:6952

Plummer, Charles C.
See Wayne E. Wruble, TN: EE5:Oct 74:1199:10855

Poad, Melvin E.
See Grant L. Anderson, SUSS:July 73:277

Poblete, Mauricio
See Ricardo Dobry, SM2:Mar 69:659:6429

Podolny, Walter, Jr.
Historical Development of Cable-Stayed Bridges, with John F. Fleming, ST9:Sept 72:2079:9201
Dsc: Stanley W. Woods, ST4:Apr 73:797:9640; Thomas C. Kavanagh, ST7:July 73:1669:9826
TR:139:125

Podolske, Richard C.
Investing in Urban Bicycle Facilities: How Much? What Type? Where?, BP73:Dec 73:596
Investing in Urban Bicycle Facilities, TE3:Aug 74: 687:10742

Poellot, William N., Jr.
Dsc, ST1:Jan 70:157:6990, of " Horizontally Curved Girders-State of the Art", ST5:May 69:853:6546

Poertner, Herbert G.
Better Storm Drainage Facilities at Lower Cost, CE: Oct 73:67
Dsc: Bayard F. Snow, CE:Apr 74:22
TR:139:461
Noise Control at Construction Sites, ECCD:72:375

Poffenberger, James C.
Static Ending Strain in Stranded Conductor, with Puran R. Mehta, ST11:Nov 70:2429:7687
TR:136:1332

Pohland, Frederick G.
Dsc, with J. C. Martin, SA6:Dec 69:6931, of "Dynamic Model of the Anaerobic Digestion Process", SA1:Feb 69:95:6418

Pohlenz, Wolfang
See Raul J. Marsal, PES:72:I-489

Pointner, Norbert
Ecological Impacts of Freeway Construction, UT73: May 73:215

Polak, Jean H.
Architectural Elements in European Practice, State-of-Art Report 2A, TB:73:Ia-12-1079

Poland, J. F.
Subsidence in United States Due to Ground-Water Overdraft—A Review, IR73:Aug 73:11

Polatty, James M.
Comments on United States Grouting Practices, EFFD:Mar 74:47

Polder, Jaap v.d.
See Hemmat H. Safwat, HY11:Nov 73:1933:10158

Pole, Gordon M.
Dsc, ST1:Jan 70:140:6990, of "New Rectangular Finite Element for Shear Wall Analysis", ST3:Mar 69:399:6464

Polincsik, Stephen
See Eugene I. Chaiken, CE:May 73:49

Polk, Edward M., Jr.
Cooling Water Density Wedges in Streams, with Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
  Dsc: John Eric Edinger and Norio Yanagida, HY2:Feb 72:412:8681; W. Hall C. Maxwell, HY8:Aug 72:1459:9076
  Clo: HY3:Mar 73:531:9580
  TR:138:37

Polkowski, Lawrence B.
See Paul M. Berthouex, SA5:Oct 70:1183:7633

Pollan, R. Gene
Managing Multiriver System—Past, Present, and Future, HY10:Oct 74:1429:10873

Pollard, William S., Jr.
The State Of The Art of Planning, with Daniel W. Moore, UP1:Apr 69:27:6517
  TR:135:218

Polvi, Robert L.
Construction of a Pumped Storage Power Plant on Soil Foundations, EFFD:Mar 74:143

Polychrone, D. A.
Programmable Calculators: A Consultant Reports, with Dieter Franz, CE:Nov 72:44
  TR:138:483

Pombo, Luis E.
See Milton E. Harr, SM4:July 69:933:6651

Pomeroy, Richard D.
Design of Sludge Digestion Tanks, SA5:Oct 68:769:6137
  Dsc: Ivan Spicka, SA4:Aug 69:795:6706
  TR:135:669
See Loren E. Blakely, SA3:June 68:563:5965
See John D. Parkhurst, SA1:Feb 72:101:8701

Pommeret, M.
Vertical Wall Joints, TB:73:III-21-277

Pompidou, George
Comments in Favor of "La Defense" Project, TB:73:Ia-1-277

Pona, Marian
Seismic Design Criteria for Hydroelectric Plant, with A. B. Arnold, PO2:Nov 73:305:10145
  TR:139:460

Ponce, V. Miguel
Shear Strength Of Sand At Extremely Low Pressures, with James M. Bell, SM4:Apr 71:625:8062
  TR:137:427

Ponder, C. A.
Prestressed Concrete Simplifies Construction of Breakwater/Wharf, with P. S. Belyea, CE:Jan 69:58
  TR:135:29

Poodle, Thomas
See George Fleming, HY2:Feb 69:431:7068

Poole, Allan L.
See Charles V. Gibbs, CWFE:Mar 71:65
See Charles V. Gibbs, SA3:June 72:491:8960

Poon, Calvin P.C.
Competitive Growth of Sewage Organisms, with Kuang K. Wang, EE4:Aug 73:489:9944
  Dsc: Thiruvenkatachari Viraraghavan, EE3:June 74:779:10564
  TR:139:287
Metal Toxicity to Sewage Organisms, with Kiran L. Bhayani, SA2:Apr 71:161:8020
  Dsc: Malay Chaudhuri and Richard S. Engelbrecht, SA6:Dec 71:944:8555
  Clo: EE1:Feb 73:87:9521
Viability of Long-Storaged Airborne Bacterial Aerosols, SA6:Dec 68:1137:6299
  Dsc: Fred C. Ladd and Raymond A. Mill, SA5:Oct 69:982:6802; Clifford W. Randall, SA5:Oct 69:983:6802
  Clo: SA2:Mar 70:615:7190
  TR:135:312

Poormand, Iraj
See Iraj Noorany, TN: SM12:Dec 73:1184:10189

Poowannachaikul, Thepchai
Dsc, with Sritawat Kitipornchai and Nicholas S. Trahair, EM1:Feb 74:134:10303, of "Inelastic Lateral Buckling of Restrained Beams", EM2:Apr 73:343:9666

Pop, Ion G.
See A. Negoita, TB:73:III-21-247

Pope, Richard G.
Dsc, SM1:Jan 70:356:6989, of "Contact Pressure of a Rigid Circular Foundation", SM3:May 69:791:6554
Dsc, SM11:Nov 73:1020:10112, of "Bearing Capacities by Plasticity Theory", SM1:Jan 73:25:9497

Popelar, Carl H.
Assured Upper Bounds via Complementary Energy, EM4:Aug 74:623:10704
Dynamic Stability of Thin-Walled Column, EM3:June 72:657:8978
  TR:138:304

Popkin, Ronald A.
Feasibility of Improved Subsurface Disposal, with Thomas W. Bendixen, SA2:Apr 68:271:5899
  Dsc: Thomas F. Zimmie, SA6:Dec 68:1299:6262
  Clo: SA5:Oct 69:948:6802
  TR:135:545

Popoff, Alexander, Jr.
Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, TB:73:III-23-571

Popov, Egor P.
Additional Items Affecting Frame Strength, TB:73:II-16-595

Cyclic Loading of Steel Beams and Connections, with Vitelmo V. Bertero, ST6:June 73:1189:9790
Errata: ST12:Dec 73:2506:10185
TR:139:356
Cyclic Yield Reversal in Steel Building Joints, with Bruce R. Pinkney, ST3:Mar 69:327:6441
Dsc: William P. Vann, ST1:Jan 70:137:6990
Clo: ST8:Aug 70:1798:7442
TR:136:39
Inelastic Behavior Under Cyclic Loading, TB:73:II-15-383
Kelvin's Solution of Torsion Problem, EM6:Dec 70:1005:7734
TR:136:1311
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, TB:73:II-18-741
Dsc, with James L. Tocher, ST11:Nov 72:2626:9307, of "Collapse Load Analysis Using Linear Programming", ST5:May 71:1561:8127
See Mahmoud Khojasteh-Bakht, EM3:June 70:327:7354
See Parviz Sharifi, EM5:Oct 71:1397:8417
See Vitelmo V. Bertero, ST5:May 72:1137:8915

Popovich, Michael L.
Cost-Effectiveness Analysis of Disposal Systems, with Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104
Dsc: James F. Hudson and David H. Marks, EE3:June 74:784:10564
TR:139:426

Popovics, Sandor
Fracture Mechanism in Concrete: How Much do We Know?, EM3:June 69:531:6604
Dsc: Madhav S. Marathe, EM1:Feb 70:95:7044; Sushil Chandra, EM1:Feb 70:98:7044; Henry J. Cowan, EM1:Feb 70:101:7044; David J. Cook, EM1:Feb 70:102:7044; Neil M. Hawkins, EM2:Apr 70:167:7188; C. V.S. Kameswara Rao and Jawalker K. Sridhar Rao, EM2:Apr 70:169:7188; Kashi T. Krishnaswamy, EM2:Apr 70:171:7188
Clo: EM5:Oct 70:785:7574
TR:136:118
Polymer-Cement Concretes for Field Construction, CO3:Sept 74:469:10806
Dsc, CO4:Dec 74:654:10970, of "Basic Construction Principles in Higher Latitudes", CO1:Mar 74:33:10399

Popowich, Daniel W.
See Samuel J. Errera, ST6:June 74:1279:10618

Popp, William E.
See Labh S. Sachdev, TE1:Feb 71:167:7864

Popper, Steven H.
Beaver Valley Containment Structure, PO1:May 73:051:9709
TR:139:236

Pora, Serif
See Aysen Ergin, WW2:May 71:279:8114

Porat, Mark M.
See Gunnar A. Harstead, PO2:Mar 71:475:7966

Porcella, Donald B.
Biological Effects on Sediment-Water Nutrient Interchange, with James S. Kumagai and E. Joe Middlebrooks, SA4:Aug 70:911:7460
TR:136:1156
See E. Joe Middlebrooks, TN: SA1:Feb 71:135:7859
See James H. Reynolds, EE3:June 74:557:10580

Poreh, Michael
Drag Reduction in Hydraulic Transport of Solid, with Jacques L. Zakin, Aviel Brosh and Moshe Warshavsky, HY4:Apr 70:903:7208
TR:136:698
Sediment Sampling Efficiency of Slots, with Abraham Sagiv and Ido Seginer, HY10:Oct 70:2065:7637
Dsc: Satya P. Garg and Ashutosh K. Agrawal, HY7:July 71:1148:8223
TR:137:837

Porges, Ralph
Regional Water Quality Standards, SA3:June 69:423:6596
Dsc: Irving Grossman, SA2:Apr 70:623:7190
Clo: SA5:Oct 70:1267:7569
TR:136:78

Portela, Antonio G.
The Moored Ship as an Oscillating System - The Non-linear Problem, BMS:71:67

Portelo, Alferdo
See J. Laginha Serafim, ST8:Aug 70:1711:7492

Porter, D. Melville
Elastic Stability of Symmetrical Single-Bay Frames, TN: ST8:Aug 70:1857:7446
Dsc, EM6:Dec 69:1442:6929, of "Dynamic Response of Frames with Nonrigid Connections", EM1:Feb 69:95:6393
Dsc, ST4:Apr 70:873:7191, of "Analysis of Shear Walls with Openings", ST10:Oct 69:2093:6824
Dsc, ST3:Mar 71:978:7944, of "Analytical Model for Lateral Load Effect on Buildings", ST6:June 70:1025:7328

Porter, D. S., Jr.
Dsc, with D. David Fowler, ST3:Mar 69:506:6430, of "Materials for Structural Models", ST6:June 68:1353:5990

Porter, Dennis
See Jerry B. Schneider, TE4:Nov 74:943:10936

Porter, Lloyd R.
Geothermal Resource Investigations, HY11:Nov 73:2097:10136
Dsc: Martin Goldsmith, HY10:Oct 74:1493:10839
TR:139:441

Posey, Chesley J.
Analysis of Natural Roughness Profiles, TN: SM11:Nov 72:2065:9311
Protection of Offshore Structures Against Underscour, HY7:July 71:1011:8230
Dsc: Richard Silvester, HY1:Jan 72:301:8620
Clo: HY8:Aug 72:1455:9076
TR:137:713
Tests of Scour Protection for Bridge Piers, HY12:Dec 74:1773:11017
Dsc, HY1:Jan 69:479:6323, of "Boundary-Layer Development at Curved Conduit Entrances", HY1:Jan 68:195:5756
Dsc, HY6:June 70:1373:7310, of "Manning Formula-A Misnomer", HY1:Jan 70:193:7036
Dsc, HY4:Apr 71:600:8012, of "136", HY7:July 70:1403:7399
Dsc, HY5:May 71:736:8081, of "Computer Determination of Flow Through Bridges", HY7:July 70:1455:7412
Dsc, HY5:May 71:752:8081, of "Linear-Momentum Flux to Overbank Sections", HY9:Sept 70:1781:7517
Dsc, with Milo S. Ketchum, PP1:Jan 73:128:9460, of "Aesthetics -- Part of Civil Engineering", PP2:Apr 72:275:8850
Dsc, HY5:May 73:859:9689, of "Effects of Inflow Condition on Hydraulic Jump", HY8:Aug 72:1367:9088
Dsc, EM4:Aug 73:883:9894, of "Experiments on Unstable Vortices", EM3:June 72:539:8948
Dsc, HY8:Aug 73:1278:9895, of "Supercritical Flow in Rectangular Expansions", HY9:Sept 72:1691:9216
Dsc, HY1:Jan 74:238:10251, of "Unified Nondimensional Formulation for Open Channel Flow", HY1:Jan 73:1:9468

Dsc, HY1:Jan 74:254:10251, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Posey, Frank H., Jr.
Effects of Reservoir Impoundment on Water Quality, with Joseph W. DeWitt, PO1:Jan 70:173:7041
TR:136:1209

Poskitt, Trevor J.
Consolidation of Clay and Peat with Variable Properties, SM6:June 71:841:8178
TR:137:645
See Laing Barden, SM1:Jan 69:406:6324

Posokhin, M. B.
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, TB:73:Ia-1-183

Pospisil, Jaroslav
Design of Boundary Arch Dam, with Michael D. Hayes, PO1:Jan 70:73:7012
TR:136:842

Posselt, Hans S.
Dsc, SA5:Oct 71:771:8409, of "Control of Bacterial Growths in Rapid Sand Filters", SA6:Dec 70:1377:7767

Post, Edward R.
See Robert M. Olson, TE2:May 71:291:8125

Potter, William E.
Walt Disney World -- A Philosophy of Planning, PWS:Nov 72:71

Potts, Richard Reed
Dsc, PP3:July 72:466:9001, of "Pollution, Politics and Protest", PP1:Oct 71:23:8468

Potyondy, Julius G.
Dsc, ST10:Oct 70:2235:7570, of "Strength of Concrete Filled Steel Tubular Columns", ST12:Dec 69:2565:6936

Poulos, Harry G.
Analysis of Longitudinal Behavior of Buried Pipes, GT74:June 74:199
Analysis of Piles in Soil Undergoing Lateral Movement, SM5:May 73:391:9740
Dsc: Joram M. Amir and Avigdor Rutenberg, GT3:Mar 74:375:10378; Rene Marche and Edouard Recordon, GT3:Mar 74:376:10378; Carlos S. Oteo, GT4:Apr 74:463:10440
Clo: GT10:Oct 74:1162:10838
TR:139:326
Behavior of Laterally Loaded Piles: I-Single Piles, SM5:May 71:711:8092
Dsc: Peter Kocsis, SM1:Jan 72:124:8622; Wallace Estill Wilson, SM2:Feb 72:225:8683; Prabhakar J. Pise, 87513:Mar 72:298:8751
Clo: SM11:Nov 72:9306
TR:137:946
Behavior of Laterally Loaded Piles: II-Pile Groups, SM5:May 71:733:8093
Dsc: Carlos S. Oteo, SM2:Feb 72:226:8683; Prabhakar J. Pise, SM3:Mar 72:300:8751
Clo: SM11:Nov 72:9306
TR:137:954
Behavior of Laterally Loaded Piles: III -- Socketed Piles, SM4:Apr 72:341:8837
Errata: SM2:Feb 73:221:9524
TR:138:243
Difficulties In Prediction Of Horizontal Deformations Of Foundations, TN: SM8:Aug 72:843:9085
Load Settlement Prediction for Piles and Piers, SM9:Sept 72:879:9170
Errata: SM8:Aug 73:635:9892
TR:139:125
Settlement of Pile Groups Bearing on Stiffer Strata, with Neil S. Mattes, TN: GT2:Feb 74:185:10310
Dsc, with L. P. de Ambrosis, SM7:July 71:1040:8224, of "Deformation and Stability of Viscoelastic Soil Media", SM6:Nov 70:2081:7708
Dsc, SM9:Sept 71:1343:8347, of "Performance of Four Foundations on End Bearing Piles", SM1:Jan 71:77:7807
Dsc, SM12:Dec 71:1716:8556, of "Lumped Parameter Beams Based on Impedance Methods", SM4:Apr 71:661:8052
See Edward H. Davis, SM1:Jan 70:334:6989
See David J. D'Appolonia, SM6:June 71:881:8213
See David J. D'Appolonia, SM10:Oct 71:1359:8438

Poulos, Steve J.
Session III: Densification after Placement (Drains), PISST:71:43

Powell, G. Morgan
See Robert W. Charley, IR73:Aug 73:251

Powell, Graham H.
Analysis of Multibeam Bridges, with Amitava Ghose and Ian G. Buckle, ST9:Sept 69:1953:6796
TR:136:1090
Analysis of Orthotropic Steel Plate Bridge Decks, with David W. Ogden, ST5:May 69:909:6563
TR:136:1103
Elastic Lateral Buckling of Steel Beam, with Richard Klingner, ST9:Sept 70:1919:7555
Dsc: Ernest F. Masur, ST3:Mar 71:1008:7944; Dusan Krajcinovic, ST4:Apr 71:1377:8015
TR:137:454
Subassemblage Concept for Tall Frame Analysis, with M. Bassam El Hafez, ST8:Aug 74:1611:10739
Theory of Nonlinear Elastic Structures, ST12:Dec 69:2687:6943
Dsc: Robert D. Cook, ST7:July 70:1621:7386; Ted B. Belytschko, ST8:Aug 70:1836:7442
TR:136:766
See Dag Kavlie, ST1:Jan 71:377:7846
See Eberhard Haug, ST4:Apr 71:1360:8015
See M. Bassam El Hafez, ST9:Sept 74:1837:10796

Powell, Harry R.
Multiple Use of City Transportation Corridor, with F. G. Alden, TE3:Aug 72:633:9096
TR:138:285
See Jim D. King, CE:Nov 70:37

Powell, Ralph W.
Dsc, HY2:Feb 71:365:7863, of "Resistance Studies on Smooth Open Channels", HY5:May 70:1129:7266

Power, Edward H.
Behavior and Design of Shingle Joints, with John W. Fisher, ST9:Sept 72:1923:9200
TR:138:454

Powers, J. Patrick
Dsc, HY3:Mar 72:580:8749, of "Unsteady Drawdown in Well Groups", HY10:Oct 71:1625:8436

Powers, James J.
Underwater Bridge Inspection, with Thomas J. Collins, CE:Mar 73:66
TR:139:122
See M. K. Mehta, CE:Mar 74:74

Powsey, Stuart
See Colin B. Brown, ST4:Apr 68:905:5888

Prabhakara, Mandanapalli K.
Large Deflections of Arbitrarily Loaded Plated, with Chun-Yuan Chia, TN: EM6:Dec 74:1282:10979
See Kashi T. Sundara Raja Iyengar, ST3:Mar 71:807:7961

Prabhu, Mudlapur S. Suryanarayana
Thermal Buckling of Restrained Skew Plates, with Somayajulu Durvasula, TN: EM6:Dec 74:1292:10979

Pracy, George Wesley
Memoir of, TR:138:638

Praeger, Emil H.
Emil Praeger, ASCE Honorary Member, Dies, CE: Dec 73:81

Prakash, Shamsher
Bearing Capacity of Eccentrically Loaded Footings, with Swami Saran, SM1:Jan 71:95:7814
  Errata: SM12:Dec 71:1711:8556
  TR:137:273
Dsc, with V. Chandrasekaran, ST4:Apr 69:762:6486, of "Static and Dynamic Analysis of Pile Foundations", ST5:May 68:1077:5936

Prandle, David
Numerical Model of St. Lawrence River Estuary, with Norman L. Crookshank, HY4:Apr 74:517:10472
A Numerical Model of the St. Lawrence River, CE13:72:III-2281
See Donald M. McDowell, WW2:May 72:225:8866

Pranesh, Mysore R.
See Annapareddy Siva Reddy, TE3:Aug 71:511:8332

Prasad, B.
See Yudhbir, SM11:Nov 73:1023:10112

Prasad, H. S. Srinivas
Dsc, ST3:Mar 69:517:6430, of "Nonlinear Analysis of Elastic Framed Structures", ST6:June 68:1525:6011

Prasad, Rama
See Kyatsandra Seetharamiah, HY6:Nov 69:2157:6866

Prasad, Ramanand
Numerical Method of Computing Flow Profiles, HY1:Jan 70:75:7005
  Dsc: Singamsetti Surya Rao and Kanakatti Subramanya, HY8:Aug 70:1759:7439; Colin J. Apelt, HY10:Oct 70:2134:7568; Armando Balloffet and Robert H. Jankowski, HY10:Oct 70:2135:7568
  Clo: HY6:June 71:861:8155
  TR:136:546
Dsc, with Beka Udeozo, HY7:July 70:1622:7384, of "Nondimensional Gradually Varied Flow Profiles", HY5:Sept 69:1671:6790
Dsc, HY11:Nov 70:2389:7641, of "Survey of Programs for Water-Surface Profiles", HY2:Feb 70:547:7098

Prasad, Triyugi
Dsc, HY1:Jan 71:201:7783, of "Risks in Hydrologic Design of Engineering Projects", HY4:Apr 70:959:7229

Prashun, Alan L.
Dsc, HY7:July 71:1146:8223, of "Experimental Investigation of Form of Bed-Roughness", HY10:Oct 70:2029:7623

Prato, Carlos A.
Maximization of Eigenvalues by Conjugate Gradients, TN: ST1:Jan 70:171:7025

Pratsch, Lew
Carpools - the Underutilized Mode, CE:Jan 74:49

Pratt, Christopher John
Bagnold Approach and Bed-Form Development, HY1:Jan 73:121:9469
  TR:139:168
Ripple and Dune Phases in a Narrowly Graded Sand, with Kenneth V.H. Smith, HY5:May 72:859:8912
  TR:138:296
Dsc, HY5:Sept 69:1753:6784, of "Design of Stable Channels in Alluvial Materials", HY2:Nov 68:1399:6217

Pratt, Harold K.
Diversion at Portage Mountain Project, PO3:June 70:349:7346
  Dsc: David Ellis Wright, PO1:Jan 71:260:7784
  Clo: PO3:July 71:720:8256
  TR:136:1178
Foundations and Abutments -- Bennet and Mica Dams, with Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
  TR:138:493

Pratt, Richard H.
Impact of Rail Transit on Bus Operations, TE1:Feb 71:31:7881
  TR:137:868

Prawell, S. P., Jr.
Deformations Of Pile Supported Structures, with R. L. Ketter, CEO-II:70:417

Preece, F. Robert
Inspection Practices, State-of-Art Report 7, TB:73:Ib-9-867

Preis, Aaron
See Ori Ishai, EM5:Oct 70:739:7616

Preissmann, Alexandre
See Dino Zanobetti, WW2:May 70:181:7259

Prescott, Gordon W.
Investigation by Geophysical and Instrumentation, IMROD:Sept 73:558

Preslan, William L.
Accelerometer-Monitored Coring, CEO-II:70:655

Pretorius, Pieter C.
See Konstant E. Bruinette, ST2:Feb 74:335:10361

Preul, Herbert C.
See Constantine N. Papadakis, HY10:Oct 72:1789:9298
See Constantine N. Papadakis, HY8:Aug 73:1235:9940
See Constantine N. Papadakis, HY9:Sept 73:1319:9987

Price, Bobby E.
Digital Computers in Circular Culvert Design, with Frank D. Masch, TE3:Aug 72:547:9117
  TR:138:369

Price, Don L.
See Jay W. Wiley, Jr., EPCE:Aug 74:13

Price, James T.
See Jack M. Garrison, HY5:Sept 69:1559:6771

Price, Kenneth S.
Surface Aerator Interactions, with Richard A. Conway and Albert H. Cheely, EE3:June 73:283:9797
  Dsc: George F. Williams, EE3:June 74:768:10564
  TR:139:191

Price, R. K.
Recirculation in Shallow Bays and Rivers, with Robert A. Dalrymple and Robert G. Dean, 12CEC:71:1813

Price, Roland K.
Comparison of Four Numerical Methods for Flood Routing, HY7:July 74:879:10659

Price, Stanley P.E.
See Joan B. Barriage, TE1:Feb 73:43:9544

Price, Ted O.
Acoustical Holography as a Tool for Geologic Prediction, EFSE:Aug 74:172

Price, W. A.
The Effect of Groynes on Eroded Beaches, with K. W. Tomlinson, 12CEC:71:1053
Field Tests on Two Permeable Groynes, with K. W. Tomlinson and D. H. Willis, CE13:72:II-1401
Laboratory Tests on Artificial Seaweed, with K. W. Tomlinsòn and D. H. Willis, 12CEC:71:995
Predicting Changes in the Plan Shape of Beaches, with K. W. Tomlinson and D. H. Willis, CE13:72: II-1321
See Maurice J. Crickmore, CE13:72:II-1005

Priesing, Charles P.
See Marion R. Scalf, SA5:Oct 69:817:6817

Priest, Melville S.
Wave Forces on Pipeline, PITO:74:23
Dsc, WW2:May 69:259:6528, of "Characteristics of Open Tube Wave Attenuation System", WW4:Nov 68:465:6234
See Keith H. Denson, CE13:72:III-1759

Priha, Seppo
Hydraulic Properties of Small Unlined Rock Tunnels, HY4:July 69:1181:6672
  Dsc: David Ellis Wright, HY4:Apr 70:1047:7189
  Clo: HY11:Nov 70:2363:7641
  TR:136:167
Lignosulphonates in Lake Paijanne Water, SA2:Apr 71:191:8021
  TR:137:444

Principe, Francis J.
Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, TB:73:Ib-9-807

Pringle, Benjamin H.
Trace Metal Accumulation by Estuarine Mollusks, with Dale E. Hissong, Edward L. Katz and Stefan T. Mulawka, SA3:June 68:455:5970
  Clo: SA3:June 69:666:6582
  TR:135:597

Pritchard, Donald W.
Dispersion and Flushing of Pollutants in Extuaries, HY1:Jan 69:115:6344
  TR:136:875
See Andrew Heubeck, Jr., SA2:Apr 68:283:5900

Pritchett, E. Edd
See George W. Reid, SA4:Aug 71:479:8329

Pritchett, Harold D.
How Industry Has Accepted the Oregon State University C.E.C. Construction Program Graduates, with William T. Peckham, CEE:Feb 74:1-670

Pritchett, Susan
See George W. Reid, SA4:Aug 71:479:8329

Procopio, Peter
Multi-Process Plant Treats Both Dilute and Strong Sewage, CE:June 74:67

Propson, Thomas P.
See Paul E. Barker, TN: HY1:Jan 72:309:8617

Prorok, Thaddeus J.
Dsc, CE:Feb 71:55, on Dsc, Inspector vs. Quality Engineer, CE:Oct 70:52

Protonotarios, John N.
See Robert V. Whitman, SM11:Nov 73:997:10175

Proudfit, Donald P.
Practical Selection of Materials for Large Water Pipe, TE1:Feb 69:203:6424
  TR:135:694

Provost, Steven C.
Mobility as It Relates to the Handicapped and the Elderly's - An Overview, BP73:Dec 73:411

Prugh, Byron J.
Dsc, SM5:Sept 70:1833:7499, of "In-place Treatment of Foundation Soils", SM1:Jan 70:73:7035
Dsc, PISST:71:134, of "In-Place Treatment of Foundation Soils", PISST:71:93

Pruitt, William O.
Central California Evapotranspiration Frequencies, with Sergius von Oettingen and D. L. Morgan, IR2: June 72:177:8941
  TR:138:251
See J. Ian Stewart, IR2:June 74:179:10626

Prusza, Zenon
Dsc, 4PCSM:72:III131, of "Slope Stability in Residual Soils", 4PCSM:71:I87

Prych, Edmund A.
Dsc, SA5:Oct 69:959:6802, of " Numerical Studies of Unsteady Dispersion in Estuaries", SA5:Oct 68: 897:6160

Pryor, Charles W., Jr.
Finite Element Bending Analysis of Reissner Plates, with Richard M. Barker and Daniel Frederick, EM6:Dec 70:967:7760
  Dsc: Bharat L. Mehrotra, EM3:June 71:1026: 8154; Ian M. Smith, EM4:Aug 71:1302:8266; G. Jeyaraj Wilson and James Kirkhope, EM5: Oct 71:1570:8406; Robert L. Taylor, EM5:Oct 71:1571:8406
See Richard M. Barker, EM3:June 74:477:10590

Pryor, William T.
Status of Use and Research in Surveying and Mapping, SU2:Sept 68:243:6122
  Errata: SU1:Oct 69:184:6804
  TR:135:1

Prysock, Rogel W.
See Hon-Hsieh Su, PES:72:I-465

Psomas, Tim
Dsc, CE:Dec 74:20, on Electronic Distance Measurement Revolution Well Underway, CE:Oct 74:66

Puckett, Hal K.
Houston Airport's Low Cost People-Mover, with James C. Williamson, TE1:Feb 74:255:10330

Pugsley, Edmond B.
Dsc, HY3:Aug 70:749:7443, of "Dynamics of Ship Anchor-Lines in Waves and Currents", WW4:Nov 64:449:6888
Dsc, SA5:Oct 72:806:9225, of "Research Needs in Sanitary Engineering", SA2:Apr 72:299:8833

Pullen, Edward J.
See Sidney H. Tanner, WW4:Nov 73:459:10171

Pulmano, V.
See Somasundaram Valliappan, TN: ST1:Jan 74:286: 10264

Purandare, Ulhas V.
See Chintaman V. Gole, WW4:Nov 74:411:10903

Purcell, Graham
Dsc, CE:Apr 71:41, on Population and People, CE: Dec 70:27

Purdie, Robert W.
See Lloyd C. Fowler, TE4:Nov 72:969:9380

Purdom, Paul W.
Air Pollution and Civil Engineers-Careers and Design Problem, CE:Feb 70:48
  TR:136:250
Effects of Environmental Concerns on Education, CEE:Feb 74:1-508
Need for Improved Operation and Maintenance of Municipal Waste Treatment Plants (Book Review), CE:May 71:8

See Robert J. Schoenberger, SA3:June 69:387:6590
See E. J. Kilcawley, SA3:June 69:667:6582

Puri, R. D.
See Alexander Coull, ST1:Jan 68:71:5710

Purpura, James A.
Establishment of a Coastal Setback Line in Florida, CE13:72:II-1599
See Emmanuel Partheniades, CE13:72:II-843

Purushothaman, Krishnier
Dsc, SA5:Oct 70:1285:7569, of "Loading Rates on Waste Stabilization Ponds", SA6:Dec 69:1117:6975

Purushothamaraj, P.
Dsc, SM1:Jan 70:357:6989, of "Noncircular Sliding Surfaces", SM3:May 69:829:6567

Pusch, Roland
Dsc, SM1:Jan 72:135:8622, of "Pore Size Distribution Studies", SM5:May 71:771:8151

Putnam, Hugh D.
See Robert E. Stewart, CEO-II:70:1151
See Robert E. Stewart, SA4:Aug 71:485:8340

Puttaramaiah, Ganakaloty
See Pazhayannur P. Vaidyaraman, HY7:July 73:1160:9823

Putz, R. R.
Flow-Field Relationships in Directional Waves, WAVES:Sept 74:721

Puzerewski, Raymond M.
See Robert W. Gerstner, ST12:Dec 71:2924:8557

Pyatt, Edwin E.
See Armando I. Perez, HY1:Jan 70:131:7026
See George R. Grantham, SA5:Oct 70:1045:7578
See Buford J. Carter, Jr., SA3:June 71:345:8203
See George R. Grantham, SA5:Oct 71:569:8429

Pybus, P. J.
See A. J. Clayton, CE:Sept 72:103

Pyle, Clyde Beethovan
Memoir of, TR:135:1141

Pyrkin, I. G.
See V. N. Anuchin, ISSF:Aug 72:527

Qasim, Syed R.
Advanced Waste Treatment System for Naval Vessels, with Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098
  Errata: EE4:Aug 74:1046:10693
  TR:139:409
Leaching of Pollutants From Refuse Beds, with Jerry C. Burchinal, SA1:Feb 70:49:7078
  Errata: SA6:Dec 70:1444:7713
  TR:136:453

Qazi, A. Nami
Dsc, CE:Mar 72:41, on Ocean Dumping: What and Where, If at All?, CE:Nov 71:58

Qazi, Raziq
Analytical Model for Management of Alluvial Aquifers, with Jeris Danielson, IR2:June 74:143:10627
  Errata: IR4:Dec :522:10975

Quade, Charles O.
Report Relating the Impact of Mobile Homes on Urban Plans and Housing Systems by the Task Committee on Mobile Home Parks of the Urban Planning and Development Division, UP1:Mar 74:7:10385
Dsc, UP2:Dec 71:244:8558, of "Basic Contemporary Urban Problems", UP2:Oct 70:133:7608

Quadrio Curzio, Pericle
Use of Shotcrete for Tunnelling in Difficult Grounds, with Glauco Barazzoni, Fiorenzo Nobili and Alessio Anselmi, SUSS:July 73:79

Quetin, B.
See Ch. Blanchet, WW4:Nov 72:561:9387

Quick, Michael C.
Mechanism for Streamflow Meandering, HY6:June 74:741:10587
See Donald O. Hodgins, CE13:72:III-2317
136, HY7:July 70:1403:7399
  Dsc: Enzo Levi, HY3:Mar 71:465:7940; Chesley J. Posey, HY4:Apr 71:600:8012; Ralph T. Hattersley, HY4:Apr 71:601:8012
  Clo: HY11:Nov 71:1895:8483

Quick, Ray S.
Dsc, HY5:May 73:853:9689, of "Start-up Pressures in Short Pump Discharge Lines", HY7:July 72:1117:9014

Quigley, Robert M.
Oxidation and Heave of Black Shale, with James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703

Quillem, Michael J.
Management System for Campus Traffic Planning, with Jason C. Yu, TE4:Nov 72:769:9355
  Errata: TE3:Aug 73:688:9896
  TR:139:96

Quimpo, George
Autocorrelation and Spectral Analysis in Hydrology, HY2:Mar 68:363:5837
  Dsc: Chester C. Kisiel, HY1:Jan 69:501:6323; D. Lee Harris, HY1:Jan 69:505:6323
  Clo: HY6:Nov 69:2148:6866
  TR:135:557

Quimpo, Rafael G.
Link Between Stochastic and Parametric Hydrology, HY3:Mar 73:461:9602
  Errata: HY3:Mar 74:485:10379
  TR:139:223
Stochastic Analysis of Daily River Flows, HY1:Jan 68:43:5719
  Clo: HY6:Nov 69:2147:6866
  TR:135:507

Quinn, Alfred O.
Photogrammetry Aids Solution of Environment Problems, SU1:July 72:87:9044
  TR:138:228

Quinn, Philip
See Werner N. Grune, CEO-II:70:1187

Quinn, William F.
Research Programs on Pipeline Crossings, TE3:Aug 70:283:7457
  TR:136:988

Quinnan, Stephen
Dsc, TE2:May 73:426:9691, of "Forecasting Regional Travel on Regional Highway Network", TE2:May 72:209:8885

Quintela, Antonio
Dsc, HY3:Mar 70:845:7113, of "Systemic Variation Pattern of Annual River Flows", HY3:May 69:787:6531

Quon, Jimmie E.
Efficiency of Refuse Collection Crews, with Robert R. Martens and Masaru Tanaka, SA2:Apr 70:437:7232
  TR:136:863
Simulation Model of Refuse Collection Policies, with Masaru Tanaka and Stephen J. Wersan, SA3:June 69:575:6626
  TR:135:42

Qureshi, M. Mohsin
See Roman W Szechowycz, HY9:Sept 73:1551:10033

Raats, Petrus A.C.
Dsc, with Jan van Schilfgaarde, IR4:Dec 74:519: 10975, of "Subsurfqce Drainage Solutions by Galerkin's Method", IR1:Mar 74:1:10397

Raba, Carl, Jr.
Dsc, with Carl W. Garner, SM1:Jan 69:371:6324, of "Skin Friction For Steel Piles in Sand", SM6:Nov 67:261:5590

Rabatel, Andre
See Jean-Pierre Giroud, TN: SM1:Jan 71:287:7787

Rabb, Audrey P.
See Aubrey E. Payton, CO1:July 73:218:9822

Rabe, George
Man-Oriented Program System For Engineering Design, with Vincent A. Trossello, EC5:70:353
Man-Oriented Program System for Engineering, with Vincent A. Trossello, ST1:Jan 71:223:7850
TR:137:345

Rabinovici, A.
Dsc, SM4:July 70:1475:7385, of "Preloading for Heavy Industrial Installations", SM6:Nov 69:1335: 6902
Dsc, PISST:71:342, of "Preloading for Heavy Industrial Installations", PISST:71:321

Rachford, Thomas M.
Time-Capacity Expansion of Waste Treatment Systems, with Russell F. Scarato and George Tchobanoglous, SA6:Dec 69:1063:6957
Dsc: Robert H. Thomas, SA4:Aug 70:1017:7441
Clo: SA1:Feb 71:103:7865
TR:136:304
See John Borrelli, EE4:Aug 73:517:9941

Racicot, Ronald L.
Filtered Poisson Process for Random Vibration Problems, with Fred Moses, EM1:Feb 72:159:8725
TR:138:110
Dsc, with Fred Moses, EM5:Oct 69:1291:6800, of "On the Bound of First Excursion Probability", EM2:Apr 69:363:6499
Dsc, with Fred Moses, EM6:Dec 69:1454:6929, of "Numerical Fourier Transform in Random Vibration", EM3:June 69:731:6629

Radcliffe, Allen B., Jr.
Dsc, CE:Sept 73:32, on "Quo Vadis, ASCE?", CE: June 73:59

Radhakrishnan, N.
See Lymon C. Reese, WW2:May 70:433:7291
See Behzad Rohani, SM7:July 71:1037:8224

Radhamohan, S. K.
Stability of Shells by Parametric Differentiation, with Achyut V. Setlur and John E. Goldberg, ST6:June 71:1775:8216
TR:137:658
See G. Venkateswara Rao, TN: EM5:Oct 74:1092: 10856

Radin, E.
See Joseph L. Ehasz, Jr., SDNPF:Dec 73:83

Radomske, Brian Arthur
See Ronald Ian S. Miller, EM5:Oct 74:1041:10837

Radosevich, George E.
Legal and Institutional Constraints in Consolidating Irrigation Systems, OIDS:72:349

Radziul, Joseph V.
See Joseph S. Mamelak, SA2:Apr 69:365:6485
See Carmen F. Guarino, SA1:Feb 70:1:7050
See Carmen F. Guarino, CWFE:Mar 71:349

Rae, Steven R.
Early Engineering in the American Southwest, with Joseph E. Minor, PP2:Apr 73:143:9670
TR:139:276

Raeder, Warren
Memoir of, TR:139:572

Rafaeli, David
Design of the South Island for the Second Hampton Roads Crossing, PES:72:I-361

Rafay, Tariq
See M. Z. Cohn, EM4:Aug 74:773:10757

Rafeiner, Fritz
Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, TB:73:Ia-12-1095
Architectural Criteria of Tall Buildings in Germany and Europe, TB:73:Ia-12-1151

Raffel, David N.
Tailwater Encroachment, PO2:Oct 69:167:6798
Dsc: R. M. King, PO1:Jan 71:223:7784
Clo: PO3:July 71:709:8256
TR:136:667

Ragade, R. K.
See Keith W. Hipel, HY10:Oct 74:1437:10861

Ragan, Robert M.
Kinematic Wave Nomograph for Times of Concentration, with J. Obiukwu Duru, HY10:Oct 72:1765:9275
Dsc: Arie Ben-Zvi, HY7:July 73:1189:9823; Jong-Song Chien, HY7:July 73:1191:9823
Clo: HY9:Sept 74:1267:10770
TR:139:110
Dsc, with Ernest C. Rebuck, SU2:Nov 74:177:10900, of "Computer Based Land Use Suitability Maps", SU1:Sept 73:39:10015
See Thomas J. Jackson, HY12:Dec 74:1739:11010

Raghavendra, N.
See K. V. Swaminathan, ST3:Mar 71:972:7944
See K. V. Swaminathan, ST3:Mar 71:979:7944

Raghavendran, R.
See P. Sreenivasulu, HY2:Feb 70:379:7062

Raghunath, S. P.
See Biskur K. Ramiah, GT5:May 74:555:10504
See Biskur K. Ramiah, GT8:Aug 74:970:10695

Rahman, Mohammad A.
Damage to Karnafuli Dam Spillway, HY12:Dec 72: 2155:9452
Dsc: James L. Sherard, HY11:Nov 73:2148: 10109; Alvin J. Peterka, HY11:Nov 73:2149: 10109; Jose Luis Sanchez Bribiesca and Rodolfo Del Castillo Muris, HY11:Nov 73:2151:10109; A. L. Swami and A. K.M. Jilani, HY11:Nov 73: 2152:10109; Avittathur Achyuthan and Viswanatha Sethuraman, HY11:Nov 73:2153: 10109; C. Edward Bowers and Frank Y. Tsai, HY1:Jan 74:236:10251
Clo: HY11:Nov 74:1720:10898
TR:139:150

Rahmani, Kofayatullah
Dsc, Bamboo Reinforcing, CE:July 74:32

Raichlen, Fredric
Tsunamis: Some Laboratory and Field Observations, 12CEC:71:2103
Dsc, WW1:Feb 72:104:8686, of "Tsunami-Responses of San Pedro Bay and Shelf, Calif.", WW2:May 71: 239:8107
Dsc, WW2:May 72:273:8863, of "Armor Stability of Overtopped Breakwater", WW2:May 71:341:8138
See Jean F. Coudert, WW3:Aug 70:737:7443
See Jiin-Jen Lee, 12CEC:71:2163
See Joseph L. Hammack, Jr., CE13:72:III-2577

See Jiin-Jen Lee, WW3:Aug 72:311:9094

Raina, Ravinora K.
See Arthur C. Heidebrecht, EM2:Apr 71:239:8028

Rainer, Johann H.
Structure-ground Interaction in Earthquakes, EM5:Oct 71:1431:8422
TR:137:805
Dsc, EM5:Oct 69:1290:6800, of "Seismic Response of Structure-Foundation Systems", EM6:Dec 68:1295:6264

Rainer, Rex K.
Safety Practices, State-of-Art Report 3, with Phillip F. Moon, TB:73:Ia-4-701
Dsc, with Robert W. Gibson, CO1:Mar 74:103:10377, of "Analysis of Transportation Methods in Construction", CO1:July 73:191:9890

Raines, G. L.
See R. G. Reeves, ESE:Apr 70:67

Rains, Charles P.
Mechanical Excitation of Offshore Tower Model, with Subrata K. Chakrabarti, WW1:Feb 72:35:8713
Errata: WW1:Feb 73:136:9527
TR:138:172

Rajagopal, Holenarasipur Y.
Dsc, HY1:Jan 72:289:8620, of "Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division", HY4:Apr 71:523:8076

Rajagopalan, K. S.
Total Interaction Method for Torsion Design, with Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
Dsc: Ganpat S. Pandit, ST7:July 73:1675:9826
Clo: ST2:Feb 74:471:10306
TR:139:131
Dsc, ST8:Aug 70:1811:7442, of "Analysis of Shear Walls with Openings", ST10:Oct 69:2093:6824
Dsc, ST10:Oct 70:2252:7570, of "Analysis of Footing Subjected to Biaxial Bendine", ST6:June 70:1049:7329
Dsc, ST10:Oct 70:2253:7570, of "What Do We Know About Torsion in Concrete Members", ST6:June 70:1185:7372
Dsc, ST8:Aug 74:1739:10697, of "Subassemblage Technique for Asymmetric Structures", ST11:Nov 73:2259:10132
See Umakanta Behera, ST2:Feb 70:371:7103
See Shrikrishna V. Chitale, HY4:Apr 70:1060:7189
See Shrikrishna V. Chitale, HY2:Feb 72:388:8681
See Shrikrishna V. Chitale, HY10:Oct 74:1487:10839

Rajagopalan, Krishnaiyengar
Dsc, EM2:Apr 74:459:10439, of "Recycling Wastes for Structural Application", EM2:Apr 73:249:9648
Dsc, EM5:Oct 74:1053:10837, of "Lower Bounds to Column Buckling Loads", EM5:Oct 73:1011:10064

Raja Iyengar, K.T. Sundara
Dsc, with Prakash Desayi and K. Nagi Reddy, ST3:Mar 71:1003:7944, of "Compression-Tests on Hoop-Reinforced Concrete", ST7:July 70:1495:7417

Rajaram, B.
See Chinta S. Reddy, ST3:Mar 71:986:7944

Rajaraman, A.
Dsc, ST12:Dec 71:2915:8557, of "Need For Diaphragms in Concrete Box Girders", ST3:Mar 71:825:7965
Dsc, ST4:Apr 73:791:9640, of "Multicell Curved Girder Model Studies", ST4:Apr 72:831:8835
Dsc, ST5:May 73:952:9693, of "Nonlinear Stress Analysis of Reinforced Concrete", ST4:Apr 72:885:8845
See S. P. Sharma, ST8:Aug 71:2153:8271

Rajaratnam, Nallamuthu
Flow Characteristics of Sloping Channel Jumps, with Valupadas Mura Hari, HY6:June 74:731:10594
Hydraulic Jumps Below Abrupt Symmetrical Expansions, with Kanakatti Subramanya, HY2:Mar 68:481:5860
Dsc: Hari R. Sharma, HY2:Mar 69:723:6433
Clo: HY2:Feb 70:579:7045
TR:135:598
Plane Turbulent Reattached Wall Jets, with Kanakatti Subramanya, HY1:Jan 68:95:5724
Dsc: Larry L. Daggett, HY6:Nov 68:1590:6200
Clo: HY2:Feb 70:576:7045
TR:135:859
Profile of the Hydraulic Jump, with Kanakatti Subramanya, HY3:May 68:663:5931
Dsc: M. Padmanabhan, HY1:Jan 69:546:6323; Kesavarao Yalamanchili, HY1:Jan 69:547:6323; David R. Basco, HY1:Jan 69:549:6323; Praxitelis A. Argyropoulos, HY2:Mar 69:725:6433
Clo: HY2:Feb 70:579:7045
TR:135:614
Three-Dimensional Turbulent Wall Jets, with Bidya Sagar Pani, HY1:Jan 74:69:10294
Errata: HY12:Dec 74:1849:10974
Turbulent Compound Annular Shear Layers, with Bidya Sagar Pani, HY7:July 72:1101:9009
Dsc: Leo E. Fink, HY5:May 73:850:9689
Clo: HY12:Dec 73:2385:10182
TR:139:64
See Spyridon Beltaos, HY10:Oct 74:1313:10852

Rajasekaran, Sundaramoorthy
Coupled Local Buckling in Wide-Flange Beam-Column, with David W. Murray, ST6:June 73:1003:9774
TR:139:343
Finite Element Solution of Inelastic Equations, with David W. Murray, ST6:June 73:1025:9773
TR:139:343
Incremental Finite Element Matrices, with David W. Murray, ST12:Dec 73:2423:10226
Dsc: Zdenek P. Bazant, ST9:Sept 74:1976:10772; Carlos A. Felippa, ST12:Dec 74:2521:10977
TR:139:527
Dsc, with David W. Murray, ST11:Nov 73:2315:10113, of "Finite Deformation of Biaxially Loaded Columns", ST12:Dec 72:2647:9407
Dsc, ST9:Sept 74:1967:10772, of "Finite Element Analysis of Reinforced Concrete", ST10:Oct 73:2109:10081
Dsc, ST11:Nov 74:2345:10899, of "Linear Stability Analysis of Beam-Columns", ST12:Dec 73:2439:10232

Rajeevalochanam, Bahaddur S.
Dsc, with Nagar S. Lakshmana Rao, HY5:Sept 69:1759:6784, of "Performance Characteristics of Siphon Outlets", HY6:Nov 68:1421:6237
Dsc, IR3:Sept 70:369:7498, of " Triangular Broad-Crested Weir", IR4:Dec 69:493:6954

Rajendra, R. Clement S.
See Eric F.P. Burnett, ST9:Sept 72:1943:9207

Raju, I. S.
See G. Venkateswara Rao, TN: EM5:Oct 74:1092:10856

Raju, Narayana K.
Dsc, ST12:Dec 71:2923:8557, of "Sustained and Cyclic Loading of Concrete Columns", ST4:Apr 71:1113:8033

Raju, Vegesna S.
Membrane Penetration in Triaxial Tests on Sands, with Sekanoor K. Sadasivan, TN: GT4:Apr 74:482:10454
Dsc, SM4:Apr 72:439:8801, of "Effect of Mica on K_o Compressibility of Two Soils", SM9:Sept 71:1275:8401

Raju, Warayana K.
Dsc, ST7:July 70:1618:7386, of "Behavior of Concrete under Compressive Loadings", ST12:Dec 69:2543:6935

Rallings, R. A.
Dsc, PES:73:III-131, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589
Dsc, PES:73:III-131, of "Hydraulic Fracturing in Low Dams of Dispersive Clay", PES:72:I-653

Ralston, Alan Andrew
Memoir of, TR:136:1362

Rama, Harihara
Periodic Waves Shoaling in Waters over Steeply Sloping Bottoms, 12CEC:71:363

Ramachandra, M. H.
See T. R. Chandrasekhara, HY4:July 69:1474:6641

Ramachandran, Jayaraman
Frequency Analysis of Tapered Orthotropic Plates, EM1:Feb 72:1:8696
  TR:138:68

Ramakrishnan, Trichinopoly K.
Dsc, HY10:Oct 72:1876:9222, of "Cavitation in Horizontal Pipelines Due to Water Hammer", HY10:Oct 71:1585:8440

Ramakrishnan, Venkataswamy
See Shu-t'ien Li, WW4:Nov 71:647:8527

Ramamurthy, Amruthur S.
Effect of Blockage on Steady Force Coefficients, with C. P. Ng, EM4:Aug 73:755:9905
  Dsc: K. G. Ranga Raju, EM3:June 74:618:10565; Thomas L. Shaw, EM5:Oct 74:1050:10837
  Errata: EM1:Feb 74:138:10303
  TR:139:386
Open Channel Expansions Fitted with Local Hump, with Sanjay Basak and Pattabhi Rama Rao, HY5: May 70:1105:7257
  Dsc: B. S. Thandaveswara, HY1:Jan 71:202:7783; Gaylord V. Skogerboe, Lloyd H. Austin and Ray S. Bennett, HY2:Feb 71:362:7863; Nani G. Bhowmik, HY2:Feb 71:364:7863
  Clo: HY12:Dec 71:2081:8552
  TR:136:1088
See Kanakatti Subramanya, TN: HY9:Sept 74:1307: 10776

Ramamurthy, T.
Dsc, with P. C. Rawat, SM2:Feb 71:489:7866, of "Comparison of Plane Strain and Triaxial Tests on Sand", SM3:May 70:901:7276
Dsc, SM4:Apr 71:686:8014, of "Technique for Study of Granular Materials", SM4:July 70:1113:7389

Raman, Harihar
Equilibrium Conditions in Beach Wave Interactioe, with John J. Earattupuzha, CE13:72:II-1237
Velocity Measurement in Waves Using Strain Gauge Technique, with Viswanatha Sethuraman and I. V. Muralikrishna, WAVES:Sept 74:817
Dsc, with John J. Earattupuzha, HY4:Apr 71:625: 8012, of "Testing Sediment Movement Due to Wave Action", HY7:July 70:1587:7433
Dsc, with Thiruvannamalai C. Gopalakrishnan, WW2:May 73:290:9694, of "Analysis of Floating Plate Under Ocean Waves", WW2:May 72:177: 8889
See John J. Earattupuzha, WW3:Aug 73:409:9897
See John J. Earattupuzha, WW3:Aug 73:410:9897

Raman, V.
Developments in Water System Network Design, SA5:Oct 70:1249:7612
  TR:137:311
Frequency Analysis of Rainfall Intensities for Calcutta, with M. Bandyopadhya, SA6:Dec 69: 1013:6950
  Dsc: Harvey W. Duff and George C.C. Hsieh, SA4:Aug 70:1012:7441; Karuna N. Chatterjee, SA5:Oct 70:1276:7569
  TR:136:805

Ramanatha Iyer, T. S.
Bonding, Effective Stresses and Strength of Soils, with Awtar Singh and Richard G. Campanella, SM5:Sept 69:1219:6786
  Dsc: Orlando B. Andersland and Arthur G. Douglas, SM3:May 70:1073:7249; T. S. Ramanatha Iyer and S. M.M. Mohamed, SM3: May 70:1074:7249; Sukhmander Singh Singh, SM4:July 70:1469:7385
  Errata: SM6:Nov 70:2131:7643
  TR:136:200
Extension Tests on Soft Clays Without Membranes, TN: SM6:June 73:486:9815
Dsc, SM6:Nov 69:1564:6894, of "Strength of Compacted Clay at High Pressure", SM6:Nov 68: 1303:6239
Dsc, SM2:Mar 70:774:7115, of "Causes of Clay Sensitivity", SM3:May 69:845:6568
Dsc, with S. M.M. Mohamed, SM3:May 70:1074: 7249, of "Bonding, Effective Stresses and Strength of Soils", SM5:Sept 69:1219:6786
Dsc, SM3:Mar 71:593:7943, of "Behavior of Single Mineral Soils in Triaxial Shear", SM4:July 70:1373: 7432
Dsc, PISST:Aug 71:374, of "Strength of Compacted Clay at High Pressure", PISST:71:345

Ramanathan, B.
Dsc, SM1:Jan 71:274:7785, of "Static Cone to Compute Static Settlement Over Sand", SM3:May 70:1011:7302
Dsc, SM4:Apr 71:690:8014, of " Effect of Particle Characteristics on Soil Strength", SM4:July 70: 1221:7393
Dsc, SM4:Apr 72:429:8801, of "Stiffened Mats on Expansive Clay", SM7:July 71:999:8265
Dsc, SM12:Dec 72:1408:9394, of "Behavior of Crossed Beams on Elastic Foundations", SM1:Jan 72:1:8626

Ramani, Dhamo T.
See V. James Meyers, ST11:Nov 72:2381:9323

Ramanujam, Gnanadesikam
Dsc, TE2:May 74:533:10508, of "Planning Criteria for Bikeways", TE3:Aug 73:609:9928

Rama Rao, B. S.
Seepage into a Sheet Pile Cofferdam, with J. Visweswara Rao, HY9:Sept 73:1515:10001
  Errata: HY8:Aug 74:1181:10696
  TR:139:373

Ramaswamy, S. V.
See Milton E. Harr, SM4:July 69:933:6651

Rambow, Carl Alan
Memoir of, TR:136:1363

Ramesvara, Thambo Kandiah
Dsc, PP1:July 69:92:6642, of "Ethics of Negotiating with Prospective Employers", PP1:Dec 67:27:5656

Ramette, M.
Dsc, HY2:Mar 69:719:6433, of " Vortex-Induced Oscillations at Low-Head Weirs", HY2:Nov 67:255: 5597

Ramey, Melvin R.
Compression Fatigue of Fiber Reinforced Concrete, with Patrick J. McCabe, EM2:Apr 74:139:10469

Ramiah, Biskur K.
Dsc, with S. P. Raghunath, GT5:May 74:555:10504, of "Factors Affecting Coefficient for Earth Pressure", SM7:July 73:527:9863

Dsc, with S. P. Raghunath, GT8:Aug 74:970:10695, of "Experiments in Expandable Tip Piling", SM11: Nov 73:957:10161

Ramirez De Arellano, Luis
Field Measurements at La Angostura Cofferdams, with Edmundo Moreno Gomez, PES:72:I-779

Ramming, Hans-Gerhard
Reproduction of Physical Processes in Coastal Areas, CE13:72:III-2197

Ramos, Fernando Silveira
See Manuel Mendes de Carvalho, 12CEC:71:65
See Carlos de Campos Moraes, CE13:72:I-707

Rampal, Kunwar K.
Analysis and Prediction of Photogrammetric Residual Errors, SU1:May 74:33:10515
Post Block Aerial Triangulation with Height Constraint, SU1:Sept 73:79:9976
TR:139:374
Space Resection from Collinearity Conditions, SU2: Nov 71:205:8520
Dsc: Santosh K. Mahajan, SU2:Nov 72:236:9308
Clo: SU1:Sept 73:134:9965
TR:139:52

Rampetsreiter, Robert H.
See Kuang-Han Chu, ST12:Dec 72:2701:9455

Ramsay, James A.
See John V. Bartlett, CO2:Nov 71:241:8498

Ramsay, K. A.
Dsc, CE:Mar 73:51, on Design of PVC Water-Distribution Pipe, CE:June 72:70

Ramseier, Roy E.
Professional Papers in Sanitary Engineering, SA5:Oct 72:707:9237
Dsc: Thiruvenkatachari Viraraghavan, EE4:Aug 73:562:9893
Clo: EE2:Apr 74:523:10437
TR:139:407
Dsc, EE1:Feb 74:224:10302, of "Disposal of Domestic Wastewater by Hillside Sprays", EE2:Apr 73:109:9673

Ramsey, Fred L.
See John H. Nath, WAVES:Sept 74:379

Ramsey, Robert
See Richard Crenshaw, TB:73:Ia-4-797

Ramu, Kikkeri L.V.
Dsc, HY3:Mar 73:541:9580, of "River Bed Degradation After Closure of Dams", HY4:Apr 72: 591:8814
Dsc, HY8:Aug 73:1272:9895, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Rana, Saeed A.
Analysis of Sediment Sorting in Alluvial Channels, with Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168
TR:139:457

Rand, Walter
Sill-Controlled Flow Transitions and Extent of Erosion, HY4:Apr 70:927:7212
Errata: HY2:Feb 71:359:7863
TR:136:722

Randall, Clifford W.
Phosphate Release in Activated Sludge Process, with Duane W. Marshall and Paul H. King, SA2:Apr 70: 395:7223
TR:136:816
Dsc, SA5:Oct 69:983:6802, of "Viability of Long-Storaged Airborne Bacterial Aerosols", SA6:Dec 68:1137:6299
Dsc, SA5:Oct 69:990:6802, of "Enteric Disease Criteria for Recreational Waters", SA6:Dec 68: 1253:6320
See Paul H. King, TN: SA4:Aug 70:1031:7445

Randall, George H.
Memoir of, TR:139:573

Randall, John D.
The Wainwright Building, TB:73:C-P-352

Raney, Donald C.
Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, with Terry G. Arnold, PO1: May 73:139:9707
TR:139:201

Raney, Edward C.
See Stanley Moyer, SA6:Dec 69:1131:6983

Rangan, B. Vijaya
Collapse Loads For Continuous Slabs With Orthotropic Reinforcement, TN: ST9:Sept 72:2149: 9162
Limit States Design of Slabs Using Lower Bound Approach, ST2:Feb 74:373:10348
Lower Bound Solutions for Continuous Orthotropic Slabs, ST3:Mar 73:443:9617
Dsc: Kuang Chu and Vijay K. Garg, ST1:Jan 74: 273:10253; Pham Lam, ST2:Feb 74:480:10306
Clo: ST9:Sept 74:1945:10772
TR:139:261
Simplified Approach to Lower Bound Solutions of Slabs, TN: ST3:Mar 70:747:7118
Dsc, ST2:Feb 72:532:8684, of "Flexural Members with Confined Concrete", ST7:July 71:1969:8243
Dsc, ST3:Mar 72:780:8752, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71: 2203:8353
See Surendra P. Shah, ST6:June 70:1167:7366

Ranganadha Rao, R. P.
Dsc, with C. Suresh, HY8:Aug 70:1732:7439, of "Nonlinear Flow in Porous Media", HY6:Nov 69: 1847:6883

Ranga Raju, K. G.
Resistance to Flow over Two-Dimensional Strip Roughness, with Ramachandra J. Garde, HY3:Mar 70:815:7181
Dsc: Chun-Tsung Wang, HY9:Sept 70:1920:7497; V. Mura Hari, HY12:Dec 70:2665:7711
Clo: HY9:Sept 71:1523:8345
TR:136:975
Dsc, with Ramachandra J. Garde, HY5:Sept 69:1753: 6784, of "Design of Stable Channels in Alluvial Materials", HY2:Nov 68:1399:6217
Dsc, with Ramachandra J. Garde, HY7:July 70:1617: 7384, of "Instability of Flat Bed in Alluvial Channels", HY5:Sept 69:1545:6770
Dsc, with Ramachandra J. Garde, HY8:Aug 70:1749: 7439, of "Steady Flow Past Flat Plate in Channel", HY6:Nov 69:2013:6903
Dsc, with Ramachandra J. Garde, HY1:Jan 71:196: 7783, of "Flow in Conduits with Low Roughness Concentration", HY4:Apr 70:941:7224
Dsc, with A. P. Bahadur, HY5:May 71:738:8081, of "Distribution of Tractive Force in Open Channels", HY7:July 70:1469:7415
Dsc, with S. J. Sahasrabudhe and Ihsan Ahmad, HY12:Dec 72:2224:9391, of "Characteristics of Flow Weirs of Finite Crest Width", HY11:Nov 71: 1807:8515
Dsc, EM3:June 74:618:10565, of "Effect of Blockage on Steady Force Coefficients", EM4:Aug 73:755: 9905
See Ramachandra J. Garde, HY4:Apr 70:1052:7189

Ranjan, Gopal
Dsc, GT8:Aug 74:954:10695, of "Failure Loads of Vertical Anchor Plates in Sand", SM9:Sept 73:669: 9980

Rankin, Woodrow W.
Allocation and Apportionment of Highway Funds, with Ralph J. Oravec, TE2:May 73:405:9745
TR:139:312

Rankine, John
Creep, Shrinkage and Temperature Effects, Summary Report, TB:73:III-25-831

Rannie, William F.
Dsc, with Harold J. McPherson, HY4:Apr 71:594:8012, of "Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY5:May 70:1157:7269

Ransford, G. D.
See H. R. Kivisild, CE13:72:III-1801

Rantz, Saul E.
Dsc, HY11:Nov 73:2154:10109, of "Hydraulic Roughness of Ice Covers", HY1:Jan 73:111:9498

Rao, A. K.
See S. Srinivas, TN: EM3:June 72:763:8931

Rao, D. Babu
See Raymond J. Krizek, HY10:Oct 71:1625:8436

Rao, D. K.
Dsc, EM5:Oct 71:1583:8406, of "Artificial Intelligence Continuum Mechanics", EM6:Dec 70:1239:7779

Rao, D. Venkateswara
See Kolinjuvadi S. Sankaran, SM7:July 71:1038:8224

Rao, Guda Venkatappa
See Asuri Sridharan, SM6:June 71:940:8158

Rao, H. S.
See D. Bree, HY3:Mar 73:540:9580

Rao, H. Suresh
See M. H. Abdul Khader, HY1:Jan 71:194:7783

Rao, Maddineni V.
Dsc, HY1:Jan 70:275:6988, of "Some Turbulence Measurements in Open-Channel Flow", HY1:Jan 69:209:6349

Rao, Manam V.P.
See Gary Z. Watters, HY3:Mar 71:421:7973

Rao, Mushti Narayana
Dsc, SA5:Oct 71:781:8409, of "Shearing Effects On Settling of Activated Sludge", SA1:Feb 71:59:7926

Rao, N. Bhavanishankar
Dsc, SM7:July 73:568:9825, of "Embankment Construction On Yielding Sea Bottom", SM7:July 72:727:9066

Rao, Palepu V.
Approximate Friction-Factor Formulas for Direct Determination of Pipe Sizes, CE:Nov 70:60
TR:136:1138
Boundary-Layer Development at Curved Conduit Entrances, HY1:Jan 68:195:5756
Dsc: Chesley J. Posey, HY1:Jan 69:479:6323; D. Bhagavantam, HY1:Jan 69:480:6323
Clo: HY5:Sept 69:1720:6784
TR:135:539
Hydraulic Performance 0f Penstock Trifurcations, with H. C. Misra and R. V. Juyal, PO:Mar 69:35:6456
TR:135:864
Dsc, HY7:July 73:1172:9823, of "Boundary Layer Effects on Hydraulic Jump Location", HY7:July 72:1127:9007

Rao, Pattabhi Rama
See Amruthur S. Ramamurthy, HY5:May 70:1105:7257

Rao, Ramachandra A.
Conceptual Hydrologic Models for Urbanizing Basins, with Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024
Dsc: Dah-Cheng Woo, HY3:Mar 73:549:9580; Dipak Mukherjee, HY4:Apr 73:692:9637; Michael J. Hall, HY7:July 73:1173:9823
TR:139:69
Dsc, with Ismail T. Kisisel and Jacques W. Delleur, HY6:June 72:1082:8925, of "Mechanics of Sheet Flow Under Simulated Rainfall", HY9:Sept 71:1367:8373
See Ismail T. Kisisel, EM1:Feb 73:31:9535

Rao, S. S.
Dsc, EM4:Aug 73:884:9894, of "Vibrations of Elastically Connected Ring Systems", EM4:Aug 72:777:9092

Rao, Sridhar
Dsc, SM2:Feb 71:506:7866, of "Theory of Brittle Fracture Applied to Soil Cement", SM3:May 70:991:7301

Rao, Udayagiri Mohan
Analysis of Sedimentation Data, TN: HY4:Apr 71:647:8018
Dsc, HY4:Apr 71:629:8012, of "Power Law Solutions for Vertical Plumes", HY9:Sept 70:1803:7523

Raphael, Jerome M.
Construction Methods for the Soil-Cement Dam, ECCD:72:217
The Optimum Gravity Dam, RCCD:70:221
Dsc, ST8:Aug 72:1881:9079, of "Temperature Rises in Low-Heat Cement Concrete", ST12:Dec 71:2807:8588

Rapoport, Leonard
See Abraham Ellstein, 4PCSM:71:II243

Rapp, Paul G.
Dsc, Hypocritical Actions, CE:July 74:21

Rapp, III, Ira H.
See David J. McGill, TN: EM3:June 73:629:9765

Rasmussen, Jack F.
Sedimentation Effects of Hydroelectric Development, PO2:Oct 72:313:9254
TR:138:469

Rasmussen, James L.
Cloud Seeding Interpreted Through Atmospheric Water Balance, IR4:Dec 72:585:9413
TR:138:562

Rasmusson, Irvin Sherman
Memoir of, TR:136:1364

Rassam, Paul R.
Analytical Estimation of Transit Access Impedances, with Raymond H. Ellis, TE2:May 72:191:8884
TR:138:154
See Raymond H. Ellis, TE3:Aug 74:661:10737

Ratay, Robert T.
Sliding-Rocking Vibration Of Body On Elastic Medium, SM1:Jan 71:177:7849
Errata: SM3:Mar 72:297:8751
TR:137:922
Dsc, ST4:Apr 70:874:7191, of "Effective Width of Thin Plates in Compression", ST10:Oct 69:2183:6837
Dsc, ST9:Sept 71:2444:8348, of "Thin Aluminum Shear Webs", ST4:Apr 71:1021:8048

Rathbun, Ronald E.
Tracer Studies of Sediment Transport Processes, with Carl F. Nordin, HY9:Sept 71:1305:8364
TR:137:753
Dsc, with James P. Bennett, SA5:Oct 69:985:6802, of " Effects of Temperature on Stream Aeration", SA6:Dec 68:1153:6309
Dsc, HY9:Sept 72:1733:9156, of "Wind Shear-Turbulence and Reaeration Coefficient", HY1:Jan 72:153:8651

Raudkivi, Arved J.
Dsc, HY12:Dec 71:2089:8552, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams", HY1:Jan 71:101:7786
Dsc, HY9:Sept 74:1286:10770, of "Incipient Motion and Sediment Transport", HY10:Oct 73:1679:10067

Rauhut, James B.
Dsc, SM2:Mar 69:634:6429, of "Sheet-Pile Analysis by Distribution Theory", SM1:Jan 68:291:5769
Dsc, SM6:Nov 69:1553:6894, of "Numerical Analysis of Flexible Retaining Structures", SM6:Nov 68: 1233:6221

Rauindra, Mayasandra K.
Dsc, with Theodore V. Galambos, ST1:Jan 72:389: 8623, of "Buckling Strength of Columns Based on Random Parameters", ST7:July 71:1927:8259

Raus, Juri
Federal Research in Urban Traffic Control, with Philip J. Tarnoff, TE4:Nov 72:909:9313
TR:138:434

Rausch, David L.
See Herman G. Heinemann, HY9:Sept 71:1555:8345

Rausche, Frank
Performance of Pile Driving Hammers, with George G. Goble, CO2:Sept 72:201:9188
TR:138:475
Soil Resistance Predictions from Pile Dynamics, with Fred Moses and George G. Goble, SM9:Sept 72: 917:9220
Dsc: Farrokh N. Screwvala, SM5:May 73:412: 9692
Clo: SM12:Dec 73:1169:10184
TR:139:145
Dsc, CE:Apr 72:73, on Dynamic Driving Stresses in Prestressed Concrete Piles, CE:Aug 71:55
See George G. Goble, PES:72:I-1243
See George G. Goble, PES:73:III-227
See George G. Goble, PES:73:III-3

Ravina, Israela
See Sam Frydman, SM8:Aug 71:1124:8270

Ravindra, Mayasandra K.
Illustrations of Reliability-Based Design, with Niels C. Lind and Wilfred W.C. Siu, ST9:Sept 74:1789: 10779
Theory of Structural Code Optimization, with Niels C. Lind, ST7:July 73:1541:9864
Errata: ST6:June 74:1318:10569
TR:139:415

Rawat, P. C.
See T. Ramamurthy, SM2:Feb 71:489:7866

Rawel, Shri N. C.
See I. C. dos M. Pais-Cuddou, IR3:Sept 69:415:6789

Rawles, Richard H., Jr.
A First- Dallas Bridge has Post-Tensioned Concrete Deck, CE:Apr 73:74
Dsc: Joel Rosenblatt, CE:July 73:22
TR:139:180

Rawlins, Stephen L.
See Jan van Schilfgaarde, IR73:Aug 73:647
See Jan van Schilfgaarde, IR3:Sept 74:321:10822

Rawls, Walter J.
Methods for Predicting Urban Drainage Costs, with John W. Knapp, HY9:Sept 72:1575:9206
TR:138:486
Subsurface Flow in Georgia Coastal Plain, with Loris E. Asmussen, IR3:Sept 73:375:10013
TR:139:459

Rawn, A. M.
Memoir of, TR:135:1118

Ray, Richard D.
Technician Manpower Needs in Florida, CEE:Feb 74:1-279

Ray, William C.
Low-Flow Criteria for Stream Standards, with William R. Walker, SA3:June 68:507:6005
Errata: SA5:Oct 69:949:6802
TR:135:645

Ray, Willis E.
See Donald G. Lux, CE:May 71:37

Raymond, Gerald P.
Design of Embankments on Peat, GT74:June 74:143
The Kars (Ontario) Embankment Foundation, PES: 72:I-319
Session I - Embankments On Soft Ground, PES:73: III-61
Dsc, SM5:May 72:513:8860, of "Consolidation of Clay Layer in Two Dimensions", SM1:Jan 72:79: 8674

Raymond, William L., Jr.
Offsets to Sight Obstructions Near the Ends of Horizontal Curves, CE:Jan 72:71
TR:138:58

Razani, Reza
Dsc, ST1:Jan 69:120:6325, of "Grid Moment Maximization by Mathematical Programming", ST2:Feb 68:529:5818

Rea, Dikon
Dsc, EM6:Dec 68:1575:6260, of "Equivalent Viscous Damping for Yielding Structures", EM1:Feb 68: 103:5793

Read, Anthony L.
Dsc, with Milton F. Pietsch, IR3:Sept 73:403:9962, of "Uniform Irrigation with Low-Pressure Trickle Systems", IR3:Sept 72:341:9175

Reades, Denys W.
Dsc, with Gordon E. Green, GT9:Sept 74:1065: 10769, of "Cubical Triaxial Tests on Cohesionless Soil", SM10:Oct 73:793:10057

Reading, Thomas J.
Corps of Engineers Studies of Shotcrete, SUSS:July 73:263

Reagan, Ronald S.
See Cenap Oran, EM4:Aug 69:879:6732

Reber, J. Blair, Jr.
Ultimate Strength Design of Tubular Joints, ST6:June 73:1223:9793
Errata: ST11:Nov 73:2335:10113
TR:139:361

Rebuck, Ernest C.
See Robert M. Ragan, SU2:Nov 74:177:10900

Rebull, Peter M.
Earth Responses in Soft Ground Tunnelling, PES:72: I-1517

Rechard, Paul A.
Opportunities for Watershed Management in Wyoming, IR73:Aug 73:423

- Snow Fence Shielding of Precipitation Gages, with Lee W. Larson, HY9:Sept 71:1427:8386
  - TR:137:778
- See Quentin D. Skinner, IRS:Sept 72:57
- See Thomas A. Wesche, HYB:Aug 73:21

Recker, Wilfred W.

- Series Solution to Problems in Elastodynamics, EM4: Aug 71:1257:8328
  - TR:137:1030

Recordon, Edouard

- See Rene Marche, GT3:Mar 74:376:10378

Reddy, Annapareddy Siva

- Bearing Capacity of Footings on Anisotropic Soils, with Ramanathan J. Srinivasan, SM6:Nov 70:1967: 7677
  - Dsc: Moshe Livneh, Jacob Greenstein and Elisha Shklarsky, SM10:Oct 71:1491:8410; J. P. Boehler, Jean-Pierre Giroud and Jean-Pierre Obin, SM10:Oct 71:1493:8410
  - Clo: SM5:May 72:498:8860
  - TR:137:511
- Bearing Capacity of Partly Saturated Soils, with Gavidi Mogaliah, TN: SM6:Nov 70:2175:7646
- Buckling of Fully and Partially Embedded Piles, with Arun J. Valsangkar, SM6:Nov 70:1951:7688
  - Clo: SM2:Feb 72:222:8683
  - TR:137:203
- Flow Around Inclined Sheet Pile, with Govinda Chandra Mishra and Kyatsandra Seetharamiah, HY7:July 71:1101:8248
  - Dsc: Eric Markland, HY3:Mar 72:577:8749
  - Clo: HY11:Nov 72:2039:9305
  - TR:137:1010
- Warping Stresses In Slabs On Reissner Foundation, with Mysore R. Pranesh, TE3:Aug 71:511:8332
  - Errata: TE3:Aug 72:735:9080
  - TR:137:823

Reddy, Chinta S.

- Dsc, with B. Rajaram, ST3:Mar 71:986:7944, of "Arch Action and Bond in Concrete Shear Failures", ST6:June 70:1069:7338

Reddy, K. Nagi

- Dsc, with S. Ramaswamy Reddy, ST3:Mar 71:991: 7944, of "Effects of Reinforcements on Ductility of Concrete", ST6:June 70:1167:7366
- See K.T. Sundara Raja Iyengar, ST3:Mar 71:1003: 7944
- See V. Malakonda Reddy, ST12:Dec 71:2894:8557
- See V. Malakonda Reddy, ST5:May 72:1191:8861

Reddy, K. Rami

- See Vincent X. Kunukkasseril, EM4:Aug 72:777:9092

Reddy, Muppidi N.

- Lateral Vibrations of Plane Curved Bars, ST10:Oct 68:2197:6148
  - Dsc: Vipperla B. Venkayya and V. S. Reddy, ST7: July 69:1583:6644
  - Clo: ST2:Feb 70:413:7047
  - TR:135:773

Reddy, S. Ramaswamy

- See K. Nagi Reddy, ST3:Mar 71:991:7944
- See V. Malakonda Reddy, ST12:Dec 71:2894:8557
- See V. Malakonda Reddy, ST5:May 72:1191:8861

Reddy, V. Malakonda

- Dsc, with K. Nagi Reddy and S. Ramaswamy Reddy, ST12:Dec 71:2894:8557, of "Behavior of Laterally Reinforced Concrete ColumnF", ST2:Feb 71:587: 7905
- Dsc, with K. Nagi Reddy and S. Ramaswamy Reddy, ST5:May 72:1191:8861, of "Flexural Members with Confined Concrete", ST7:July 71:1969:8243

Reddy, V. S.

- See Vipperla B. Venkayya, ST7:July 69:1583:6644

Reddy, Y. R.

- Experiments with Unconventional Storm Overflows, with John Pickford, EE3:June 73:177:9794
  - Errata: EE5:Oct 74:1186:10836
  - TR:139:162
- Stilling Pond Storm Overflow Studies, with John Pickford, SA4:Aug 72:609:9093
  - Errata: EE3:June 73:387:9758
  - TR:139:348
- Vortex Suppression in Stilling Pond Overflow, with John Pickford, HY11:Nov 74:1685:10969

Redel, Carl

- Dsc, SM4:Apr 73:355:9639, of "Subsurface Investigation for Design and Construction of Buildings: Part II", SM6:June 72:557:8944
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Redlinger, Jacob F.

- Dsc, Dam Study, CE:Apr 73:86
- Stability of Existing Dam Foundations, IMROD:Sept 73:677

Redmond, W. R.

- Public Attitudes Towards Transportation, PP1:Jan 73: 77:9487
  - TR:139:82

Redner, S.

- Photoelastic Model Studies of Wye Manifold Branches, with J. H. Perrotta, PL1:Oct 68:107:6180
  - TR:136:1100

Redwood, Richard G.

- Design Aids for Beams with Circular Eccentric Web Holes, with Peter W. Chan, ST2:Feb 74:297:10331
- Dsc, ST9:Sept 72:2129:9159, of "Tests on Beams with Reinforced Web Openings", ST3:Mar 72:611: 8791
- See Bharat L. Mehrotra, EM2:Apr 69:493:6484
- See Bharat L. Mehrotra, ST12:Dec 69:2863:6968
- See David J. Malcolm, ST7:July 70:1403:7409
- See Judith G. Congdon, ST9:Sept 70:1933:7561
- See Albert W.G. Hanna, PO1:May 73:105:9701
- See Peter W. Chan, ST1:Jan 74:231:10291

Reed, Ed L.

- Hydrologic Concepts in Suburban Planning, IRS:Sept 72:185

Reed, George L.

- Moonlighting and Professional Responsibility, PP1: Sept 70:19:7548
  - Dsc: Manley A. Roose, PP1:Oct 71:227:8408
- See Joseph W. Guyton, TE1:Feb 71:63:7880

Reed, George O.N.

- Dsc, PISST:71:230, of "Sand Densification by Piles and Vibroflotation", PISST:71:203
- Dsc, SA6:June 71:919:8158, of "Sand Densification by Piles and Vibroflotation", SM6:Nov 69:1303: 6892

Reed, John W.

- Human Response to Tall Building Wind-Induced Motion, State-of-Art Report 6, with Robert J. Hansen and Erik H. Vanmarcke,, TB:73:II-17-687
- See Robert J. Hansen, ST7:July 73:1589:9868

Reed, Joseph R.

- See Richard A. Hartman, HY9:Sept 72:1729:9156

Reed, Paul M.

- Dsc, CE:Oct 74:22, on A Method for Specifying Percentage Soil Compaction, CE:May 74:82

Reed, Sherwood C.
Low Temperature Activated Sludge Settling, with R. Sage Murphy, SA4:Aug 69:747:6747
Dsc: Richard I. Dick, SA2:Apr 70:638:7190; Peter Kos and Ivo Pardus, SA2:Apr 70:642: 7190
Clo: SA5:Oct 70:1274:7569
TR:136:185
Dsc, CE:Mar 74:30, on Land Application of Treated Sewage, CE:Sept 73:103

Reemsnyder, Harold S.
Procurement and Analysis of Structural Fatigue Data, ST7:July 69:1533:6693
Errata: ST5:May 70:995:7250
TR:135:4

Reese, Lymon C.
Axial Capacity, PES:73:III-201
Generalized Analysis of Pile Foundations, with Michael W. O'Neill and Robert E. Smith, SM1:Jan 70:235:7032
TR:136:471
Rational Design Concept for Breasting Dolphins, with Michael W. O'Neill and N. Radhakrishnan, WW2:May 70:433:7291
TR:136:1009
Structural Damage from Tsunami at Hilo Hawaii, with Hudson Matlock, HY4:July 68:961:6037
Dsc: Hans J. Leutheusser, HY2:Mar 69:737:6433
Clo: HY1:Jan 70:259:6988
TR:135:667
See Chiyyarath V. Girijavallabhan, SM2:Mar 68:473: 5864
See Vasant N. Vijayvergiya, SM2:Mar 69:665:6429
See Chandrakant S. Desai, SM4:July 70:1289:7408
See Michael W. O'Neill, SM2:Feb 72:195:8741
See Fadlo T. Touma, GT7:July 74:749:10651

Reese, Raymond C.
Gravity Loads and Temperature Effects, Theme Report, TB:73:Ib-5-5
Structural Failures from the Human Side, STF:73:103
Structural Failures from the Human Side, CE:Jan 73: 81
Dsc: Richard C. Elstner, CE:Apr 73:81
TR:139:34
Dsc, ST6:June 74:1317:10569, of "How Safe are Your Poles?", ST7:July 73:1333:9848
See Georg Wastlund, TB:73:III-1

Reeve, Ronald C.
See Lyman S. Willardson, IR4:Dec 68:455:6300
See Om P. Gulati, IR4:Dec 70:437:7751

Reeves, Charles F.
See Ziva D. Jankou, ST9:Sept 70:1973:7567

Reeves, R. G.
The Bonanza Project--Remote Sensing for Mineral and Water Resources, with L. H. Jefferis, D. H. Knepper, Jr., R. W. Marrs and G. L. Raines, ESE: Apr 70:67

Reg, Ronald S.
Behavior of Prestressed Composite Beams, with Nat W. Krahl, ST6:Dec 67:87:5663
TR:135:392

Regal, David
See David Burgreen, EM4:Aug 71:1045:8305

Regan, John C.
See Elio E. D'Appolonia, 4PCSM:71:II365

Regan, Raymond W.
Dsc, EE4:Aug 74:1037:10693, of "Carbon and Nitrogen as Regulators of Algal Growth", EE5:Oct 73:639:10043

Reginatto, Aldo R.
Standard Penetration Tests in Collapsible Soils, 4PCSM:71:II77
Dsc, PES:73:III-107, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589

Rehberger, Glenn W.
Dsc, CE:Sept 73:29, on Muskegon Sprays Sewage Effluents on Land, CE:May 73:49

Rehman, Abdul
See Mushtaq Ahmad, HY3:Sept 69:1739:6784

Reich, Brian M.
Dsc, HY3:May 69:1065:6524, of "Design Hydrographs for Pennsylvania Watersheds", HY4: July 68:937:6036
Dsc, HY10:Oct 70:2146:7568, of "Channel Slope Effect on Peak Discharge of Natural Streams", HY2:Feb 70:307:7052

Reichelt, Karl L.
Tower: A Design System For Guyed Towers, with Daniel M. Brown and John W. Melin, EC5:70:377
Tower: Design System for Guyed Towers, with Daniel M. Brown and John W. Melin, ST1:Jan 71: 237:7836
TR:137:317

Reickert, Frederick
"Highway Safety, Design and Operations, Narrow Bridges-Driver Dilemmas," report of hearings before the Subcommittee on Investigations and Review of the Committee on Public Works, House of Representatives (Book Review), CE:Apr 74:36

Reid, George W.
Can Engineering Forecasters Effect Water Law?, with E. Edd Pritchett and Susan Pritchett, SA4:Aug 71: 479:8329
Dsc: Melvin W. Jackson, SA1:Feb 72:271:8682
TR:138:22

Reid, Leroy C., Jr.
Chlorine Disinfection of Low Temperature Waters, with Dale A. Carlson, EE2:Apr 74:339:10443

Reigner, Irvin C.
See Herbert C. Storey, IAWM:72:271

Reilly, Robert J.
Stiffness Analysis of Grids Including Warping, ST7: July 72:1511:9022
Dsc: A. Fricker and F. Sawko, ST7:July 73:1654: 9826; Negussie Tebedge, ST7:July 73:1657: 9826; Fernando Venancio-Filho and Fernando Iguti, ST7:July 73:1660:9826
TR:139:89

Reimbert, Andre
See George L. Blanchard, ST2:Feb 69:282:6373

Reimer, Paul O.
Urbanization's Drainage Consequence, with Joseph B. Franzini, UP2:Dec 71:217:8600
TR:137:966

Rein, David A.
See Edwin R. Bennett, EE1:Feb 73:55:9537

Reinitzhuber, Friedrich K.
Structural Systems, Summary Report -- Part II, TB: 73:Ia-3-651

Reinschmidt, Kenneth F.
Computers: Key to Integrated Building Design, CE: Mar 72:74
Dsc: Donald H. Komito, CE:July 72:52
TR:138:158
Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, TB:73:C-AC31-159
Discrete Structural Optimization, ST1:Jan 71:133: 7829
TR:137:299
On Discrete Structural Optimization, EC5:70:189

Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, TB:73:Ia-1-147
Dsc, with Alan D. Russell, ST8:Aug 70:1829:7442, of "Optimum Elastic Design of Redundant Trusses", ST12:Dec 69:2589:6938
See Alan D. Russell, ST9:Sept 71:2437:8348

Reischman, Michael M.
See William G. Tiederman, WW4:Nov 74:361:10953

Reisman, Herbert
Forced Motion of Cylindrical Shells, with John Medige, EM5:Oct 68:1167:6183
TR:136:17

Reisner, Daniel M.
See Andrew S. Balbiani, TE4:Nov 70:585:7672

Reiss, Martin L.
School Trip Safety and Urban Play Areas - A Study of the Young Pedestrian, BP73:Dec 73:96

Reiss, Max
Dsc, ST12:Dec 70:2666:7714, of "Spandrel-Slab Interaction", ST1:Jan 70:89:7017
See Uri Kirsch, ST1:Jan 72:249:8645

Reitter, Arthur R.
Construction Surveys for Merced River Project, with Robert N. Janopaul, SU2:Sept 68:203:6104
Errata: SU1:Oct 69:183:6804
TR:135:81

Reitz, Henry M.
Dsc, with Alfred H. Hunter, GT10:Oct 74:1165:10838, of "Compaction of Hydraulically Placed Fills", SM11:Nov 73:939:10170
See Van A. Silver, TN: SM2:Mar 70:789:7117
See John J. Bailey, Jr., SM5:Sept 70:1810:7499
See John J. Bailey, Jr., PISST:71:249

Rejcha, Charles E.
Elastomeric Bridge Bearings, CE:May 72:46
Dsc: Knut S. Platou, CE:Jan 73:73
TR:138:233

Reley, Patrick
See Arunachalan Sargunam, TN: HY3:Mar 73:555:9609

Remillieux, Maurice
Development of Bottom Panels in River Training, WW2:May 72:151:8881
TR:138:300

Remson, Irwin
See George M. Hornberger, HY3:Mar 72:579:8749
See Eduardo Aguado, HY1:Jan 74:103:10287
See Eduardo Aguado, HY7:July 74:869:10639

Renard, Kenneth G.
Flood Peaks from Small Southwest Range Watershed, with John C. Drissel and Herbert B. Osborn, HY3:Mar 70:773:7161
Dsc: Thomas L. Brown and William H. Sammons, HY1:Jan 71:182:7783
Clo: HY9:Sept 71:1521:8345
TR:136:1047
Dsc, HY6:Nov 69:2200:6866, of "Evaporation from an Ephemeral Streambed", HY1:Jan 69:423:6368
Dsc, with J. Roger Simanton, HY9:Sept 73:1647:9961, of "Predicting Sediment Yield in Western United States", HY12:Dec 72:2073:9432
See Herbert B. Osborn, IR3:Sept 73:207:10005

Rendle, J. D.
Dsc, BMS:71:206, of "The Mechanics of Impact and Evaluation of the Hydrodynamic Mass Analytic Study of the Problem of Berthing", BMS:71:157
Dsc, BMS:71:266, of "Design Criteria for Fenders and Berthing Structures", BMS:71:256

Rendon-Herrero, Oswald
Estimation of Washload Produced on Certain Small Watersheds, HY7:July 74:835:10638

Renfro, Graham W.
Dsc, HY3:Mar 71:460:7940, of "Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY5:May 70:1157:7269

Renner, Dean M.
Drainage System Design and Analysis by Computer, with Charles C. Mueller, IR3:Sept 74:255:10801

Renton, John D.
Behavior of Howe, Pratt, and Warren Trusses, ST2:Feb 69:183:6388
Dsc: Donald L. Dean, ST9:Sept 69:1997:6755
Clo: ST4:Apr 70:844:7191
TR:135:933
Dsc, ST10:Oct 72:2318:9227, of "Analysis of Space Truss as Equivalent Plate", ST12:Dec 71:2777:8569

Rentschler, Glenn P.
Tall Building Current Research Surveys, with Wai F. Chen, TB:73:C-AC11-55

Renukaradhya, P. S.
See Jade Dattatri, 12CEC:71:203
See Jade Dattatri, WW3:Aug 71:505:8303

Replogle, John A.
Dsc, IR3:Sept 68:359:6088, of " Rectangular Cutthroat Flow Measuring Flumes", IR:Dec 67:1:5628

Resch, Francois J.
Bubbly Two-Phase Flow in Hydraulic Jump, with Hans J. Leutheusser and Solomon Alemu, HY1:Jan 74:137:10297
Hot-Film Turbulence Measurements in Water Flow, HY3:Mar 70:787:7177
Dsc: M. H. Abdul Khader, K. Elango and H. Suresh Rao, HY1:Jan 71:194:7783
Clo: HY8:Aug 71:1238:8267
TR:136:1017
See Hans J. Leutheusser, HYB:Aug 73:315

Resendiz, Daniel
Analysis of Embankment Deformations, with Miguel P. Romo, PES:72:I-817
Dsc: C. F. Lee, PES:73:III-157
Clo: PES:73:III-159
Dsc, GT3:Mar 74:370:10378, of "Constructional Deformations in Rockfill Dam", SM2:Feb 73:139:9560
Dsc, GT8:Aug 74:1969:10695, of "Accuracy Equilibrium Slope Stability Analyses", SM10:Oct 73:783:10097
See Raul J. Marsal, 4PCSM:71:I237

Reshan, Theodore L., Jr.
Dsc, ASCE Control Shifted, CE:Aug 74:22

Resnick, Israel
Syntactic Foams for Deep Sea Engineering Applications, with Aleksander Macander, CO1:June 70:45:7367
Errata: CO2:Nov 71:330:8482
TR:137:2

Reti, G. Andrew
Engineering Computer Program Documentation Standards, SM3:Mar 73:249:9614
Dsc: John D. Rouse, Anatole Longinow and Richard L. Chiapetta, SM12:Dec 73:1174:10184
TR:139:285

Reuss, Ralph F.
Internal Piping and Shear Deformation. Victor Braunig Dam -- San Antonio, Texas, with John W. Schattenberg, PES:72:I-627

Reuter, Fritz
Cleaning and Waste Disposal, State-of-Art Report 6, TB:73:Ia-2-363

Revell, Russell W.
Reevaluating Spillway Adequacy of Existing Dams, HY2:Feb 73:337:9571
Dsc: Gordon W. Dukleth, HY11:Nov 73:2158:10109; Robert T. Jaske, HY11:Nov 73:2158:10109; Wilfred G. Lockett, HY11:Nov 73:2158:10109; Leib Wolofsky, HY11:Nov 73:2158:10109; Asit K. Biswas, HY1:Jan 74:245:10251; Gordon R. Williams, HY1:Jan 74:247:10251; Basilio Espildora and Jaime Amorocho, HY1:Jan 74:249:10251; Lewis G. Hulman, HY1:Jan 74:250:10251; Edward F. Hawkins, HY1:Jan 74:251:10251; William S. Bivins, HY1:Jan 74:252:10251; Chesley J. Posey, HY1:Jan 74:254:10251; William S. Butcher, HY1:Jan 74:254:10251; Geoffrey N. Alexander, HY12:Dec 73:2388:10182
Clo: HY10:Oct 74:1477:10839
TR:139:214

Revell, Wilfred
Dsc, with John T. Tuohey, TE4:Nov 71:706:8486, of "Determination of Wheel Trajectories", TE4:Nov 70:463:7653

ReVelle, Charles S.
See David H. Marks, UP1:Mar 70:81:7164

Revelle, J. Edgar
Penstocks For Six Pumped Storage Projects, with Robert W. Mikitka, PO2:Mar 71:435:7947
TR:137:185

Reyes, Garcia Rafael
Public Irrigation Systems In Puerto Rico, IR1:Mar 71:109:7953
Errata: IR1:Mar 72:146:8750
TR:137:307

Reynolds, Alan J.
Dsc, HY1:Jan 69:469:6323, of "Bridge Piers-Hydrodynamic Force Coefficients", HY1:Jan 68:17:5707
See Rangaswami Narayanan, HY6:Nov 68:1383:6212
See Rangaswami Narayanan, HY5:May 72:913:8919

Reynolds, E. Kenneth
DI-10 Distomat System, SU2:Sept 70:137:7518
TR:136:829

Reynolds, Glenn E.
Dsc, CO4:Dec 74:651:10970, of "Basic Construction Principles in Higher Latitudes", CO1:Mar 74:33:10399

Reynolds, J. David
Measuring Building Movement by Precise Survey, with John A. Dearinger, SU1:Apr 70:87:7228
TR:136:1069

Reynolds, James H.
Temperature-Toxicity Model for Oil Refinery Waste, with E. Joe Middlebrooks and Donald B. Porcella, EE3:June 74:557:10580

Reynolds, John E.
Allocating Water Among Alternative Uses, IR1:Mar 71:85:7978
TR:137:325

Reynolds, John Z.
Aquatic Studies at Ludington Pumped Storage Project, with Peter I. Tack and Charles R. Liston, EPCE:Aug 74:227

Reynolds, Joseph C.
Thermal Stresses and Movements in Bridges, with Jack H. Emanuel, ST1:Jan 74:63:10275

Reynolds, Joseph R., Jr.
Least Cost Gauge Buoy for Measurement and Analysis of Ocean Waves, with John F. Hoffman, WAVES:Sept 74:639

Reynolds, Robin R.
Automation in California's State Water Project, with Welby R. Madsen, PL3:Nov 67:15:5574
Dsc: B. Wylie Evan and Victor L. Streeter, PL1:Oct 68:196:6133
TR:135:499

Reynolds, Walker R., Jr.
Walker Reynolds Honored, CE:July 74:97

Reynolds, William N.
See Cyrus M. Vaziri, IR1:Mar 73:1:9622

Reznik, S.
Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, TB:73:Ib-9-889

Rhenals, Alonso
See John C. Schaake, Jr., IR3:Sept 73:409:9962

Rhinehart, Julian
Bikeways - The Federal Role, BP73:Dec 73:13

Rhines, Warren J.
Elastic-Plastic Foundation Model for Punch-Shear Failure, SM3:May 69:819:6560
TR:136:807

Rhoades, James D.
See Jan van Schilfgaarde, IR73:Aug 73:647
See Jan van Schilfgaarde, IR3:Sept 74:321:10822

Rhodes, James
Alternative Approach to Light-Gage Beam Design, with James M. Harvey, ST8:Aug 71:2119:8327
Dsc: Hans Larsson, ST5:May 72:1200:8861; Kothapalli Ramaiah Venkataramaiah, ST6:June 72:1332:8930
Errata: ST11:Nov 72:2629:9307
Clo: ST12:Dec 72:2812:9395
TR:138:9
See David Ritchie, ST9:Sept 74:1960:10772

Rhodes, James A.
Corps of Engineers Dam Inspection Program, IMROD:Sept 73:61

Rhodes, Ralph L.
Pollution of the Marine Environment by Oig, CEO-II:70:1211

Rhomberg, Edward J.
Continuing Education for the Engineering Educator, with David A. Novick, CEE:Feb 74:1-955
See Warren J. Baker, CEE:Feb 74:1-764

Rhone, Thomas J.
General Considerations of Flow in Branching Conduits, HYB:Aug 73:205
See James V. Williamson, HY5:May 73:747:9729

Riback, Milton
The Engineer and Ethical Advertising, CEWAU:74:99

Ribe, Richard L.
Ocean Wave Measuring Instrumentation, with Eugene M. Russin, WAVES:Sept 74:396

Ribeny, Ferenc M.J.
Dsc, HY4:Apr 74:612:10441, of "Unit-Response Method of Open-Channel Flow Routing", HY1:Jan 73:179:9499

Ricca, Vincent T.
Water Resources Education in Civil Engineering, with Robert C. Stiefel, CEE:Feb 74:1-96

Rice, John L.
Keyed Joint Performance Under Heavy Loaded Aircraft, TE4:Nov 72:931:9376
  Dsc: Robert G. Packard, TE4:Nov 73:959:10110
  Clo: TE3:Aug 74:783:10698
  TR:139:111

Rice, Joseph F.
"Urban Freeway Surveillance and Control, The State of the Art" by Paul F. Everall (Book Review), CE: Mar 74:36

Rice, Larry
Opportunities in Changing Federal System, UP1:Mar 74:73:10423

Rice, Leonard
Computer Plotted Prestressed Concrete Design Charts, ST3:Mar 71:863:7993
  Errata: ST1:Jan 72:359:8623
  TR:137:401
Reduction of Urban Runoff Peak Flows by Ponding, IR3:Sept 71:469:8351
  Dsc: Kenneth R. Wright, IR1:Mar 72:168:8750
  TR:137:950
Dsc, HY3:May 69:1092:6524, of "Design of Stable Channels in Alluvial Materials", HY2:Nov 68:1399: 6217

Rice, Paul F.
Practical Approach to Two-Way Slab Design, ST1: Jan 73:131:9485
  Dsc: Nirmalendu Maitra, ST11:Nov 73:2324: 10113
  Clo: ST6:June 74:1313:10569
  TR:139:206

Rice, Philip A.
See George E. Fox, SA6:Dec 69:1191:6931

Rice, R. C.
See Herman Bouwer, IR4:Dec 68:481:6304

Rice, Raymond M.
Mass-Wasting Processes in Watershed Management, with J. S. Krammes, IAWM:72:231
See L. F. DeBano, IAWM:72:327

Rich, George R.
New Honorary Members: 1974, CE:Oct 74:93
Dsc, HY1:Jan 70:304:6988, of "Stability of Oscillations in Simple Surge Tank", HY5:Sept 69: 1577:6773

Rich, Richard C.
Parking Design and Requirements for High Rise Building, State-of-Art Report 11, TB:73:Ia-1-225

Richard, R. V.
Design Procedures for Dynamically Loaded Foundations, SM6:Nov 67:169:5569
  Dsc: Movses J. Kaldjian, SM1:Jan 69:6324
  Clo: SM6:Nov 69:1519:6894
  TR:135:440

Richard, Ralph M.
See Alan J. Esser, ST11:Nov 74:2349:10899

Richards, Adrian F.
See Peter T. Dzwilewski, TN: GT10:Oct 74:1175: 10857

Richards, Curtis W.
Freeway Development Effects Upon Adjacent Transit Usage, with Edward A. Beimborn, TE3:Aug 73:435: 9923
  TR:139:380

Richards, Dennis L.
See Fred F. M. Chang, HY6:June 71:837:8191

Richards, John L.
See Omar E. Rood, Jr., CO2:Sept 72:331:9217

Richards, Paul B.
Dsc, CE:Aug 73:20, on Systems Approach to Building, CE:Apr 73:59

Richards, Robert W.
Atlanta's Instant Runway, TE3:Aug 71:491:8306
  TR:137:813

Richards, Rowland, Jr.
Body-Force Stresses in Gravity Structures, with Werner E. Schmid, SM1:Jan 68:205:5749
  Dsc: George Y. Baladi and William H. Perloff, SM1:Jan 69:431:6324
  Clo: SM5:Sept 69:1273:6754
  TR:135:677
Stresses on Shallow Circular Pipe by Transformed Section, with Jagdish S. Agrawal, GT6:June 74:637: 10631
Viaducts—A Case Study, with David G. Elms, EI4: Oct 74:293:10845
Dsc, SM1:Jan 70:338:6989, of "Slopes in Stiff-Fissured Clays and Shales", SM2:Mar 69:467:6449
See John F. Abel, SM7:July 73:509:9858
See Angel L. Lazaro, III, ST8:Aug 73:1761:9934

Richards, Sterling J.
Tensiometer Use in Shallow Ground-Water Studies, with Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243
  TR:139:542

Richardson, Everett V.
Measurement of Turbulence in Water, with Raul S. McQuivey, HY2:Mar 68:411:5855
  Dsc: Henry Liu and Charles D. Morris, HY6:Nov 68:1601:6200; Emmanuel Partheniades and Paul H. Blinco, HY1:Jan 69:515:6323; Sedat Sami, HY1:Jan 69:518:6323; R. Smutek, HY1:Jan 69: 519:6323
  Clo: HY5:Sept 69:1731:6784
  TR:135:887
See Raul S. McQuivey, HY1:Jan 69:209:6349
See Arthur C. Miller, HY1:Jan 74:159:10298

Richardson, Gary V.
See Paul R. Nixon, IR2:June 72:185:8945

Richardson, George C.
Filling System For Lower Granite Lock, WW3:Aug 69:275:6718
  TR:136:94

Richardson, Joe T.
Measured Deformation Behavior of Glen Canyon Dam, SU2:Sept 68:149:6097
  Errata: SU1:Oct 69:182:6804
  TR:135:797

Richardson, Peter
Service Systems, Summary Report, TB:73:Ia-2-389

Richardson, Philip E.
See Frank M. Wilson, PO1:May 68:108:5921

Richardson, Steven E.
See Stacy L. Daniels, EE3:June 74:755:10564

Richart, Frank E., Jr.
Comparison of Footing Vibration Tests with Theory, with Robert V. Whitman, SM6:Nov 67:143:5568
  Dsc: George W. Housner and Alberto Castellani, SM1:Jan 69:360:6324
  Clo: SM6:Nov 69:1518:6894
  TR:135:438
See Vincent P. Drnevich, SM2:Mar 70:453:7160
See Victor L. Streeter, GT3:Mar 74:247:10410
See Kenneth H. Stokoe, II, GT4:Apr 74:427:10499
See Constantine N. Papadakis, GT74:June 74:1
See Donald G. Anderson, TN: GT12:Dec 74:1316: 10981

Richert, Robert C.
Mount Hope Project — Studies of an Underground Site for Developing Peaking Capacity, EPCE:Aug 74:265

Richey, Eugene P.
Wave Attenuation by a Porous Walled Breakwater, with Charles K. Sollitt, CEO-II:70:903
Wave Attenuation by Porous Walled Breakwater, with Charles K. Sollitt, WW3:Aug 70:643:7468
  Dsc: Jared L. Black, WW2:May 71:440:8086
  TR:137:897
See Ronald E. Nece, CE13:72:III-2489

Richter, Andreas
Dsc, HY8:Aug 71:1258:8267, of "Effect Of Side Walls On Flow Past Bluff Bodies", HY1:Jan 71:65:7788

Rickert, D.
See T. Helfgott, SA3:June 70:779:7374

Riddell, John F.
Dsc, HY6:Nov 69:2171:6866, of "Optimum Dredging and Disposal Practices in Estuaries", HY1:Jan 69:103:6343
See David I. H. Barr, PL1:Oct 68:175:6133
See David I. H. Barr, PL1:Oct 68:182:6133

Ridha, Raouf A.
Inelastic Finite Deformation of Planar Frames, with Lawrence H. N. Lee, EM3:June 71:773:8198
  TR:137:260

Riebe, John M.
STOL Aircraft Flight and Landing Area Considerations, TE2:May 73:339:9743
  TR:139:306

Riedel, C. Martin
Dsc, SM2:Mar 69:642:6429, of " Guide Specifications for Chemical Grouts", SM2:Mar 68:345:5830

Riedel, H. P.
Measurement of Bed Shear Stress Under Waves, with J. William Kamphuis and A. Brebner, CE13:72:I-587

Riedel, John T.
Some Procedures for Determining Extreme Precipitation Criteria, IMROD:Sept 73:284

Riera, Jorge D.
See Robert Mark, ST4:Apr 68:1075:5877

Riesbol, Herbert S.
Thermal Hydraulic Study: Arkansas Cooling Reservoir, with James B. Anderson, Fred H. Wend and Harlan B. Holmes, PO1:Jan 71:93:7811
  Errata: PO2:Oct 72:351:9223
  TR:137:866

Rifai, Mahmoud Faisal
Flow Over Triangular Elements Simulating Dunes, with Kenneth V.H. Smith, HY7:July 71:963:8246
  Dsc: Khalid Mahmood and Paul H. Frinco, HY3:Mar 72:571:8749
  Clo: HY10:Oct 72:1874:9222
  TR:137:979
Dsc, with Kenneth V.H. Smith, HY5:Sept 69:1747:6784, of "Pressure Fluctuations in Reattaching Flow", HY6:Nov 68:1383:6212
Dsc, HY6:Nov 69:2179:6866, of "Some Turbulence Measurements in Open-Channel Flow", HY1:Jan 69:209:6349

Riggs, Henry C.
Dsc, IR3:Sept 71:540:8346, of "Probability Distribution of Annual Droughts", IR4:Dec 70:461:7727
Dsc, HY11:Nov 73:2133:10109, of "Floods Predicted From Rainfall Frequencies", HY10:Oct 72:1773:9294

Riggs, Louis W.
Planning and Engineering by Agency-Consultant Team, UP2:Oct 70:105:7585
  TR:136:908

Rigny, P.
European Versus United States Grouting Practices, EFFD:Mar 74:37

Rigter, Ben P.
Density Induced Return-Currents in Outlet Channels, HY2:Feb 70:529:7086
  Errata: HY12:Dec 70:2638:7711
  TR:136:583
Minimum Length of Salt Intrusion in Estuaries, HY9:Sept 73:1475:10010
  Dsc: Hugo B. Fischer, HY5:May 74:708:10505; Chintaman V. Gole, HY9:Sept 74:1279:10770
  Errata: HY5:May 74:712:10505
  TR:139:383

Rimawi, Walid H.
Dsc, ST1:Jan 68:336:5702, of "Structural Analysis of Circular Curved Beamn", ST1:Mar 67:221:5099

Rimer, Alan E.
Filtration Through a Trimedia Filter, SA3:June 68:521:6014
  Dsc: Ernest W.J. Diaper, SA4:Aug 69:782:6706; V. J.G. Harding, SA4:Aug 69:783:6706; Kuan M. Yao, SA4:Aug 70:997:7441
  TR:136:25

Rimmer, Margret M.
Biking and Hiking Through Red Tape, BP73:Dec 73:9

Ring, Stanley L.
See Kenneth A. Brewer, CEE:Feb 74:1-6

Ringenoldus, James C.
Water Resources and Regional Land-Use Plan, SA6:Dec 70:1311:7735
  TR:137:396

Ringo, Boyd C.
Dsc, with James F. McDonough, ST5:May 73:955:9693, of "Interaction Equations for Biaxially Loaded Sections", ST5:May 72:1035:8902

Ringwood, J. R.
See J. E. Stann, CE:June 69:74

Rinker, Walter Nelson, Jr.
Memoir of, TR:136:1365

Rinne, John E.
ASCE at Midterm or Challenges of 1972, CE:July 73:87
  TR:138:607
ASCE President's Inaugural Address, CE:Jan 73:74
  TR:139:24
John Rinne Becomes ASCE's 104th President, CE:Oct 72:94
President's Annual Address, CE:July 73:87
  TR:139:322

Ripken, John F.
Cavitation in High-Head Conduit Control Dissipators, with Norio Hayakawa, HY1:Jan 72:239:8678
  TR:138:151
See Norio Hayakawa, HY9:Sept 72:1728:9156

Rish, Raphael F.
Dsc, EM4:Aug 71:1297:8266, of "Stability of Hyperboloidal Cooling Tower", EM5:Oct 70:753:7635
Dsc, PO1:May 73:259:9690, of "Analysis and Design of Hyperbolic Cooling Towers", PO1:June 72:133:8997

Rising, Robert R.
Design of Underground Pumping Chamber at Lake Mead, with Gayle A. Ericson, URC:72:381

Ritchey, Robert J.
Dsc, CE:Jan 70:79, on Low-Cost Housing: Is the Soviet Union's Factory-Made Housing the Answer?, CE:Sept 69:44

Ritchie, Alistair G.B.
The Rheology of Fresh Concrete, CO1:Jan 68:55:5752
  Dsc: Shu-t'ien Li, CO1:July 69:133:6640
  Clo: CO1:June 70:80:7308
  TR:135:59

Ritchie, D. E.
See David A. Flemer, SA4:Aug 68:683:6081

Ritchie, David
Dsc, with James Rhodes, ST9:Sept 74:1960:10772, of "Cold-Formed Steel Members with Perforated Elements", ST10:Oct 73:2061:10059

Ritchie, Logan R., Jr.
Dsc, SM5:Sept 70:1813:7499, of "Building Damage From Expansive Steel Slag Backfill", SM6:Nov 69:1325:6879
Dsc, PISST:71:252, of "Building Damage from Expansive Steel Slag Backfill", PISST:71:235

Rittenhouse, Gordon
Dsc, HY4:Apr 71:596:8012, of "Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY5:May 70:1157:7269

Ritter, John R.
Cyclic Sedimentation in Agua Hediona Lagoon, Southern California, TN: WW4:Nov 72:597:9373
Sediment Transport in a Tidal Inlet, CE13:72:II-823

Rivera, Al
Dsc, CE:Oct 73:31, on A Report from the Executive Director on Membership Dues, CE:Dec 72:29

Rixner, Joseph J.
See Charles C. Ladd, PES:72:I-211

Roach, David D.
Dsc, ST:Jan 69:131:6325, of "Lateral Stability of Welded Light Trusses", ST3:Mar 68:809:5873

Robb, David C.N.
See Marvin E. Jensen, IR1:Mar 70:25:7131

Robbins, E. Guy
Traffic Data for Concrete Pavement Design, with Cloyd E. Warnes, TE1:Feb 73:17:9555
  TR:139:188

Robbins, Kenneth
See Alan L. Yettram, EM6:Dec 67:21:5633

Robbins, Michael L.
See Ralph W. Kiefer, SU1:Sept 73:39:10015

Robbins, Richard
Steady-state Profile for Oil Barriers, with David P. Hoult and Ralph H. Cross, III, TN: WW1:Feb 71:235:7891

Robbins, Richard J.
Vehicular Tunnels in Rock - Direction for Development, CO2:Sept 72:235:9173
  Dsc: David A. Howells, CO1:July 73:216:9822; S. Patrick Collins, CO1:July 73:217:9822
  TR:139:186
See Paul C. Liu, WAVES:Sept 74:64

Roberson, John A.
Analysis of Flow in Channels with Gravel Beds, with Steven J. Wright, HYB:Aug 73:63
Flow in Conduits with Low Roughness Concentration, with C. K. Chen, HY4:Apr 70:941:7224
  Dsc: K. G. Ranga Raju and Ramachandra J. Garde, HY1:Jan 71:196:7783
  Clo: HY8:Aug 71:1239:8267
  TR:136:1066
Turbulence Effects On Drag of Sharp-Edged Bodies, with Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72:1187:9061
  Dsc: Farid Mansour and Walter H. Graf, HY9:Sept 73:1627:9961
  TR:139:76
Dsc, HY4:Apr 71:618:8012, of "Free Surface, Velocity Gradient Flow Past Hemisphere", HY7:July 70:1485:7418
Dsc, EM8:Aug 71:1242:8267, of "Forces From Submerged Jets", HY11:Nov 70:2231:7675
Dsc, with Donald L. Bender, HY12:Dec 71:2106:8552, of "Design Conduit System by Dynamic Programming", HY3:Mar 71:7988
See C. K. Chen, HY1:Jan 74:53:10257
See Clayton T. Crowe, TN: ST8:Aug 74:1745:10723

Roberto, Gerard
The Making of a Professional Civil Engineer, with Louis M. Laushey and George J. Kral, CEE:Feb 74:1-433

Roberts, E. F.
Designing Computer Programs for Bridge Foundations, with M. Lohrmann, CE:Dec 71:64
  TR:137:808

Roberts, Edwin B.
See Robert M. Hagan, IR1:Mar 72:25:8780

Roberts, George D.
Dsc, SM1:Jan 73:144:9461, of "Subsurface Investigations for Design and Construction of Foundations of Buildings: Part I", SM5:May 72:481:8917

Roberts, Gilbert
Severn River Suspension Bridge, CE:Aug 69:68
  Dsc: Daniel Dicker, CE:Feb 70:65
  TR:135:794

Roberts, Gwilym M.
Public Health Effects of Water, Air and Land Pollution, PWS:Nov 72:117

Roberts, James E.
Foundation Design for Buildings on Soft Clay in Earthquake Zone, with Edward Margason, CE:Feb 74:56

Roberts, John Brian
Coherence of Grid-Generated Turbulence, with David Surry, EM6:Dec 73:1227:10248
  Dsc: M. H. Abdul Khader, K. Elango and S. Sadasivan, EM6:Dec 74:1266:10972
  TR:139:546
Drag Spectra of Simple Structures in Turbulence, EM5:Oct 72:1053:9238
  TR:138:448

Roberts, Keith
The Public Role of Engineering: the California State Water Project, PP1:Jan 73:19:9492
  Dsc: Harry Wiersema, PP4:Oct 73:541:10040
  TR:139:114

Roberts, Keith J.
Dsc, SA2:Apr 72:456:8800, of "Selecting Solid Waste Disposal Facilities", SA4:Aug 71:443:8280

Roberts, Michael C.
Dsc, with Peter C. Klingeman, HY7:July 70:1656:7384, of "Drainage Density in Drift-Covered Basins", HY1:Jan 70:183:7033

Roberts, Sanford B.
Buckling and Vibrations of Polygonal and Rhombic Plates, EM2:Apr 71:305:8030
Dsc: Patricio A. Laura, EM5:Oct 71:1587:8406; Somayajulu Durvasula and Kaja Vijayakumar, EM1:Feb 72:262:8680
Clo: EM5:Oct 72:1302:9221
TR:137:681
See Stephan S-K Wang, EM1:Feb 71:77:7930

Roberts, Thomas L.
See Robert J. Luedtke, HYB:Aug 73:259

Roberts, Wyndham J.
Forecasting Water Demands and Systems Capabilities, with Sandor C. Csallany and Neil G. Towery, SA6:Dec 70:1349:7745
Dsc: David H. Stoltenberg, SA3:June 71:391:8157
Clo: SA6:Dec 71:938:8555
TR:137:420
Dsc, WW3:Aug 69:433:6709, of "Characteristics of Open Tube Wave Attenuation System", WW4:Nov 68:465:6234

Robertson, F. P.
Bituminous Blanket for Dike, with Johannes Lehnert, CE:Dec 72:54
TR:138:537

Robertson, Gordon G.
See Harvey C. Olander, TE1:Feb 70:25:7087

Robertson, James A., Jr.
Groundwater Control by Pumping, with Frank J. Dragoun and Dale W. Sall, IR73:Aug 73:179

Robertson, James M.
Stream Turbulence Effects On Turbulent Boundary Layer, with Charles F. Holt, TN: HY6:June 72: 1095:8932
Turbulence Structure in Plane Couette Flow, with Henry F. Johnson, EM6:Dec 70:1171:7754
Dsc: M. H. Abdul Khader and H. Suresh Rao, EM5:Oct 71:1567:8406
Clo: EM3:June 72:745:8924
TR:137:518
See Hormoz Pazwash, CEO-II:70:1135
See Hormoz Pazwash, HY9:Sept 71:1317:8374
See Le-Chung Cheng, EM4:Aug 74:707:10719

Robertson, Leslie E.
Structural Systems, Theme Report, TB:73:Ia-3-403
See Peter W. Chen, ST11:Nov 71:2679:8526
See Peter W. Chen, ST8:Aug 72:1681:9142

Robertson, Richard B.
Municipal Considerations in Transportation Planning, TE1:Feb 69:1:6378
TR:136:1051

Robertson, Robert A.
Model Study of Power Intake Gate Of Mossyrock Dam, with James W. Ball, HY7:July 71:889:8229
TR:137:370

Robey, Robert H.
See Gregory E. Mester, TN: ST8:Aug 74:1748:10723

Robinsky, Eli I.
Design of Insulated Foundations, with Keith E. Bespflug, SM9:Sept 73:649:10009
TR:139:402

Robinson, Arthur R.
See Sana R. Abdel-Samad, ST10:Oct 68:2231:6153
See Harry H. West, ST12:Dec 68:2861:6280
See Robert L. Carter, EM5:Oct 69:1033:6808
See German R. Gurfinkel, ST6:June 73:1241:9800

Robinson, August R.
Dsc, IR4:Dec 68:529:6261, of " Rectangular Cutthroat Flow Measuring Flumes", IR:Dec 67:1: 5628

Robinson, Carlton C.
The Other Side of "The Highway Explosion", CE: Feb 71:47
Dsc: Paul J. Costic, III, CE:July 71:40
TR:137:109

Robinson, David N.
See Richard H. Lance, EM6:Dec 70:1183:7742
See Richard H. Lance, EM1:Feb 72:195:8736

Robinson, E. P.
Dsc, IR3:Sept 70:360:7498, of "Mechanical Structures for Farm Irrigation", IR4:Dec 69:463: 6944

Robinson, Frank E.
Stands for Automation Achieved by Sprinkling, IR3: Sept 69:385:6774
TR:135:62
See James N. Luthin, IR1:Mar 69:117:6446

Robinson, Franklin
See William Hustrulid, RM14:73:61

Robinson, Hugh
Composite Beam Incorporating Cellular Steel Decking, ST3:Mar 69:355:6447
TR:136:823
Tests on Composite Beams with Cellular Deck, ST4: Aug 67:139:5391
Dsc: Anatol A. Eremin, ST6:June 68:1630:5966
TR:135:315

Robinson, Lee
Floods Predicted From Rainfall Frequencies, with Theodore T. Williams, HY10:Oct 72:1773:9294
Dsc: Henry C. Riggs, HY11:Nov 73:2133:10109
TR:139:116

Robinson, Millard P., Jr.
Pipelining of Low-Concentration Sand-Water Mixtures, with Walter H. Graf, HY7:July 72:1221: 9060
TR:138:381
Dsc, with Oner Yucel, HY3:Mar 71:468:7940, of "Sediment Transportation Mechanics: J. Transportation of Sediment in Pipes", HY7:July 70: 1503:7423

Robison, Leslie B.
Mississippi Valley Mapping, SU1:May 71:103:8102
TR:137:911

Robles, Alfonso, Jr.
See Ralph F. Wong, WW1:Feb 71:185:7894

Robles, Francisco
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, TB:73:III-26-907

Robnett, Quentin L.
Subgrade Strengthening of Existing Airfield Runways, TE2:May 73:267:9724
Errata: TE2:May 74:529:10508
TR:139:257

Robson, C. Michael
See Shankha K. Banerji, EE6:Dec 74:1283:10971

Roche, Richard B., Jr.
An Owner's Program for the Investigation and Analysis of Its Dams, IMROD:Sept 73:516
Program for Investigation and Analysis of Dams -- Los Angeles County Flood Control District, IMROD:Sept 73:804

Rochester, Eugene W., Jr.
Model Study of Boundary Effects on Ditch Drainage Division, IR4:Dec 68:493:6313
Dsc: Wilfried Brutsaert, IR2:June 69:356:6581
Clo: IR1:Mar 70:93:7114
TR:135:922

Potable Water Availability on Long Oceanic Islands, with George J. Kriz, SA5:Oct 70:1235:7627
TR:136:1019
See Charles D. Busch, IR2:June 72:330:8926

Rockey, Kenneth C.
Failure of Thin-Walled Members Under Patch Loading, with Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409
Errata: ST10:Oct 73:2212:10039
TR:139:161

Rockwell, Matthew L.
Water Resources as an Element of Urban Planning, UP1:Aug 68:1:6056
Dsc: Robert L. McFall, UP1:Apr 69:105:6487; Paul F. Keim, UP1:Mar 70:97:7119
TR:136:689

Rockwood, David M.
See Mark L. Nelson, HY1:Jan 71:143:7798

Rodabaugh, Everett C.
Summary Report on Experimental Evaluation of Simulated Uncased Pipeline Crossings of Railroads and Highways, with Thomas J. Atterbury and G. L. Hinueber, UPC:Apr 71

Rodenhuis, G. S.
Difference Method for Higher-Order Equations of Flow, HY3:Mar 73:471:9628
TR:139:241

Roderick, J. W.
Load Carrying Capacity of Simple Composite Columns, with D. F. Rogers, ST2:Feb 69:209:6412
Dsc: C. V.S. Kameswara Rao and Jawalker K. Sridhar Rao, ST12:Dec 69:2990:6932
Clo: ST7:July 70:1593:7386
TR:136:690

Rodrigues, J. Caldeira
See J. Laginha Serafim, ST8:Aug 70:1711:7492

Roe, Terry
Programming Approach to Urban Transit Planning, with Mathew Shane, TE3:Aug 73:571:9960
TR:139:452

Roefs, Theodore G.
Dsc, SA2:Apr 70:632:7190, of "Economic Measure of Effect of Extreme Data", SA4:Aug 69:683:6720
See Marvin J. Dvoracek, OIDS:72:597

Roegiers, J. C.
The Deep Stress Probe -- A Tool for Stress Determination -- Abstract, RM14:73:755

Roembke, James E.
See Lawrence M. Moy, EI3:July 74:207:10691

Roesler, Joseph F.
Plant Performance Using Dissolved Oxygen Control, EE5:Oct 74:1069:10841
Simulation of Ammonia Stripping from Wastewater, with Robert Smith and Richard G. Eilers, SA3:June 71:269:8182
Errata: SA3:June 72:598:8928
TR:137:974

Roesner, Larry A.
See George K. Young, Jr., HY4:Apr 70:911:7209

Roess, Roger P.
See Louis J. Pignataro, TE3:Aug 70:251:7454

Roesset, Jose M.
Modal Analysis for Structures with Foundation Interaction, with Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603
Dsc: Michael J. O'Rourke and Richard A. Parmelee, ST2:Feb 74:476:10306
Clo: ST10:Oct 74:2148:10834
TR:139:246

Some Structural Problems-Standard Oil Building of Indiana, with Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
TR:139:283
See Rene W. Luft, EC5:70:573
See Rene W. Luft, ST1:Jan 71:349:7841
See E. Kausel, EPCE:Aug 74:469

Rogers, Archibald C.
Dsc, CE:July 69:43, on Architects and Highways, CE:Feb 69:37

Rogers, Billy R.
Highway Access for Dallas-Fort Worth Airport, ASC73:Mar 73:95

Rogers, Cranston
Which First Higher Fees or Higher Salaries, CE:Aug 73:76
TR:139:366

Rogers, D. F.
See J. W. Roderick, ST2:Feb 69:209:6412

Rogers, Earl
Engineer versus Computer Strategy of Persuasion, PP1:July 69:9:6654
TR:135:724

Rogers, Grover L.
The Professional School - A Sleeping Giant, with James H. Schaub, CEE:Feb 74:1-752

Rogers, Paul
Dry-Type Hyberbolic Cooling Tower, with Laszlo Heller, CE:Oct 72:56
TR:138:452
Earthquake-Resistant Reinforced-Concrete Buildings, CE:Aug 71:32
Dsc: Clarence Joseph Derrick, CE:Dec 71:71
Clo: Paul Rogers, CE:Mar 72:45
TR:137:497
Hyperbolic Cooling Towers, Development and Practice, with Eli W. Cohen, PO1:Jan 70:117:7030
Dsc: Nicholas Isyumov, PO1:Jan 71:244:7784
Clo: PO3:July 71:714:8256
TR:136:899
Dsc, Liquid Gas Economical, CE:Sept 74:34
Wet-Type Hyperbolic Cooling Towers, CE:May 72:70
TR:138:262
Dsc, PO1:Jan 71:236:7784, of "Design Criteria for Turbine-Generator Pedestals", PO1:Jan 70:1:6991

Rogers, Richard A.
Rational 'Rational' Method of Storm Drainage Design, IR4:Dec 68:465:6301
Dsc: Lamont W. Curtis, IR4:Dec 69:634:6930; Dah-Cheng Woo and Dah-Cheng Woo, IR4:Dec 69:636:6930
Clo: IR3:Sept 70:342:7498
TR:135:903
Dsc, HY6:Nov 69:2195:6866, of "Storm Drainage Practices of Thirty-two Cities", HY1:Jan 69:383:6365

Rogers, W. R.
Dsc, CO4:Dec 74:652:10970, of "Basic Construction Principles in Higher Latitudes", CO1:Mar 74:33:10399

Rohani, Behzad
Dsc, with N. Radhakrishnan, SM7:July 71:1037:8224, of "Nonlinear Analysis of Stress and Strain in Soils", SM5:Sept 70:1629:7513

Rohatyn, Frederick S.
Automatic Voltage Drop Compensation for Tall Buildings, TB:73:Ia-2-382

Rohlich, Gerard A.
See Robert W. Zeller, HY9:Sept 71:1403:8385

Rohrer, E. Parke
See William D. Alexander, CE:Oct 72:77

Rohter, Laurence E.
Bridge To Europe, CE:Mar 73:61

Rokhsar, Anoushiravan
See Gholamreza Mesri, GT8:Aug 74:889:10740

Rolfe, Stanley T.
Designing to Prevent Fracture in Tall Buildings, State-of-Art Report 6, with G. R. Egan, TB:73:II-18-781
Fracture Mechanics, With High-Strength Steels A Must, CE:Aug 72:37
  Dsc: Carl H. Zweben, CE:Nov 72:49
  TR:138:357

Rolko, Leslie S.
Dsc, SM10:Oct 71:1500:8410, of "Performance of Four Foundations on End Bearing Piles", SM1:Jan 71:77:7807

Roll, Frederic
Materials for Structural Models, ST6:June 68:1353:5990
  Dsc: D. S. Porter, Jr. and D. David Fowler, ST3:Mar 69:506:6430; E. George Stern, ST3:Mar 69:506:6430; Emanuele Fumagalli, ST4:Apr 69:774:6486
  Clo: ST12:Dec 69:2986:6932
  TR:135:648
See Ish K. Aneja, ST12:Dec 71:2861:8603

Rollins, Andrew P., Jr.
Federal Overseer for Pipeline, CE:Feb 74:91

Rollins, Myron B.
Bentonite Sealing Methods Compared in the Field, with Anthony S. Dylla, IR2:June 70:193:7379
  Errata: IR2:June 71:329:8156
  TR:136:959
Sealing Sands with Waterborne Bentonite, IR4:Dec 67:25:5640
  Dsc: Richard J. Willson and Chester W. Jones, IR4:Dec 68:531:6261
  Clo: IR4:Dec 69:583:6930
  TR:135:261

Romanelli, Enrique
Torsion of Bars of Regular Polygonal Cross Section, with Mario J. Maurizi and Patricio A. Laura, EM2:Apr 72:415:8809
  TR:138:191

Romani, Fredy
Influence of Progressive Failure On Slope Stabilities, with Charles William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
  TR:138:530

Romaniello, Charles G.
Advancing Technology in Electronic Surveying, SU2:Sept 70:287:7566
  TR:136:1008

Romano, James A.
Dsc, CE:July 74:26, on After Agnew: What's Happening in the Profession, CE:Feb 74:43

Romanowitz, Charles M.
Dsc, WW3:Aug 69:415:6709, of "Dredging Fundamentals", WW3:Aug 67:45:5390

Romig, Phillip
New Applications of Seismic Investigations to Engineering Problems, EFSE:Aug 74:144

Rommel, Robert R.
See James L. Ash, EFSE:Aug 74:97

Romo, Miguel P.
See Daniel Resendiz, PES:72:I-817

Romstad, Karl M.
Analysis of Frames with Partial Connection Rigidity, with Chittoor V. Subramanian, ST11:Nov 70:2283:7664
  TR:137:842
Efficient Frame Design for Stability Constraints, with Karl H. Runge, TN: EM6:Dec 74:1286:107979
Numerical Biaxial Characterization for Concrete, with Michael A. Taylor and Leonard R. Herrmann, EM5:Oct 74:935:10879
Optimum Design of Framed Structures, ST:Dec 68:2817:6273
  Dsc: Harold Switzky, ST9:Sept 69:1983:6755
  Clo: ST4:Apr 70:842:7191
  TR:135:827
See Thomas C. Ferrara, UP2:Dec 71:179:8585
See William K. Johnson, CEE:Feb 74:1-71
See Leonard R. Herrmann, GT8:Aug 74:958:10695

Ronter, Alan R.S.
See John B. Martin, EM1:Feb 72:107:8745

Rood, Omar E., Jr.
Construction Planning in South East Asia, with John L. Richards, CO2:Sept 72:331:9217
  TR:138:585
Critical Oxygen Deficit for Bank Outfall, with Edward R. Holley, EE3:June 74:661:10585
  Errata: EE6:Dec 74:1299:10971
Increase Fleet Productivity and Decrease Unit Production Costs, CE:July 74:84

Roohr, Albert J.
Design of Pedestrian Facilities for the Washington Metro, MTI:May 72:159

Rooney, Thomas C.
See William C. Boyle, EE2:Apr 74:391:10451

Roorda, John
Buckling of Shells: An Old Idea with a New Twist, EM3:June 72:531:8951
  Dsc: James A. Cheney, EM2:Apr 73:413:9636
  Clo: EM5:Oct 73:1094:10041
  TR:139:55
See Kothapalli Ramaiah Venkataramaiah, ST7:July 70:1610:7386
See Kothapalli Ramaiah Venkataramaiah, ST4:Apr 71:1376:8015
See Kothapalli Ramaiah Venkataramaiah, EM2:Apr 72:476:8798
See Jorn S. Hansen, EM2:Apr 73:271:9647

Roos, A.
See W. T. Bakker, 12CEC:71:1001

Roos, Amos
Dsc, TE2:May 70:245:7251, of "A Statement of National Highway Transportation Policy, by the Committee on Transportation Policy of the Tranportation Engineering Coordinating Committee", TE3:Aug 69:399:6717
Dsc, with Labh S. Sachdev, TE2:May 70:247:7251, of "A Statement of National Highway Transportation Policy, by the Committee on Transportation Policy of the Tranportation Engineering Coordinating Committee", TE3:Aug 69:399:6717
Dsc, CE:Oct 71:80, on Coordinated Land and Water Planning Proposed to Avoid Killing of Projects, CE:May 71:75
Dsc, CE:July 73:26, on Are More Women Needed in Civil Engineering, CE:May 73:54
See Philip D. Roos, TE3:Aug 69:581:6708

Roos, Daniel
Computer Charges and Engineering Organizations, EC5:70:559
Computer Charges and Engineering Organizations, ST1:Jan 71:339:7834
  TR:137:310
Demand Responsive Transportation Systemp, UTI:71:123

Evaluation of Computer Charging Policies, ST7:July 73:1423:9849
  Dsc: Hayrettin Kardestuncer, ST4:Apr 74:826:10442; Shriniwas N. Pagay, ST8:Aug 74:1715:10697
  TR:139:392

Roos, Philip D.
Dsc, with Amos Roos and William C. Hughes, TE3:Aug 69:581:6708, of "People, Planning, and the Political Process", PL1:Oct 68:29:6158
Dsc, PP1:Sept 70:145:7549, of "One Man's View of Registration Today", PP1:July 69:1:6653

Roose, Manley A.
Dsc, PP1:Oct 71:227:8408, of "Moonlighting and Professional Responsibility", PP1:Sept 70:19:7548

Roper, Alan T.
Dsc, with Muthusamy Krishnamurthy and Herman N. C. Breusers, HY7:July 70:1636:7384, of "Local Scour Around Bridge Piers", HY6:Nov 69:1919:6891

Roper, Ralph E., Jr.
Dsc, with Glen T. Daigger and C. P. Leslie Grady, Jr., EE4:Aug 74:1048:10693, of "Design and Operation Model of Activated Sludge", EE6:Dec 73:773:10220

Roper, Willard
Wastewater Management Studies by the Corps of Engineers, EE5:Oct 73:653:10044
  Dsc: Herbert Moore, EE4:Aug 74:1039:10693
  TR:139:334

Ropertz, Henry
See V. Setty Pendakur, UP2:Dec 71:246:8558
See V. Setty Pendakur, UP1:Mar 73:121:9584

Roret, Jean A.
High Rise Construction in France, State-of-Art Report 4B, TB:73:Ia-4-741
See W. H. Arch, TB:73:Ia-4-823

Rosan, Richard M.
Fulton Arcade (A Pedestrian/Transitway in Downtown Brooklyn), BP73:Dec 73:80

Rose, Donald W.
Dsc, CE:July 71:66, on New Microwave Tower Design Reduces Drag, CE:Mar 71:46

Rose, Edwin
Improved Appearance of Switchyards and Substations, with Dwight A. Covington, PO1:Mar 69:17:6455
  TR:135:99

Rose, Franklin O.
More on Deflection of Steel Beams, CE:Dec 69:49
  TR:135:1040

Rose, John L.
See John H. Peters, SA4:Aug 68:625:6065

Rose, Raymond E.
Dsc, with Frederick March, CE:July 69:47, on ASCE Responsibility for the Economic Welfare of its Members, CE:Apr 69:35

Rosebraugh, Vernon H.
See Stuart E. Swartz, ST1:Jan 74:195:10280

Rosen, Richard
Substructure Analysis by Matrix Decomposition, with Moshe F. Rubinstein, ST3:Mar 70:663:7169
  Dsc: Thomas S. Tarpy, Jr. and William H. Rowan, Jr., ST10:Oct 70:2249:7570
  Clo: ST9:Sept 71:2425:8348
  TR:136:862

Rosenberg, Fromy
A Growing Need for Undergraduate Education in Precast Prestressed Concrete Design, CEE:Feb 74:1-382

Rosenberg, J. T.
See D. A. Shockey, RM14:73:709

Rosenberg, Norman J.
Frequency of Potential Evapotranspiration Rates in Great Central Plains, IR2:June 72:203:8946
  TR:138:294

Rosenberger, Richard L.
Estuarine Water Quality Management, with Raymond Walsh, SA05:Oct 68:913:6164
  TR:136:678

Rosenblatt, Joel
Dsc, CE:July 73:22, on A First- Dallas Bridge has Post-Tensioned Concrete Deck, CE:Apr 73:74

Rosenblueth, Emilio
Code Specification of Safety and Serviceability, State-of-Art Report 2, TB:73:Ib-10-931
Ethical Optimization in Engineering, PP2:Apr 73:223:9669
  Dsc: David G. Elms, EI1:Jan 74:93:10252; Niels C. Lind, EI1:Jan 74:94:10252
  Errata: PP4:Oct 73:544:10040
  Clo: EI2:Apr 74:174:10438
  TR:139:268
Floor Loads, TB:73:Ib-5-121
Reliability Optimization in Isostatic Structures, with Enrique Mendoza, EM6:Dec 71:1625:8584
  Errata: EM4:Aug 72:1001:9125
  TR:138:38
Dsc, SM1:Jan 71:275:7785, of "Decision Theory Applied to Settlement Predictions", SM4:July 70:1127:7390
Dsc, ST1:Jan 72:369:8623, of "Monte Carlo Study of Seismic Structural Safety", ST5:May 71:1497:8118
Dsc, CE:Jan 73:57, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE:Aug 72:55
Dsc, ST3:Mar 73:590:9583, of "Dynamic Soil-Structure Interaction", ST7:July 72:1525:9026
Dsc, ST8:Aug 74:1733:10697, of "Structural Risk Analysis and Reliability-Based Design", ST9:Sept 73:1891:10011
See Enrique Bazan, TN: ST2:Feb 74:489:10341

Rosenbraugh, Vernon H.
See Stuart E. Swartz, EM3:June 72:711:8992

Rosenshine, Matthew
Bidding Models: Resolution Of A Controversy, TN: CO1:Mar 72:143:8753

Rosl, Gerd
See Werner Zielke, HY7:July 71:1141:8223

Rosman, Riko
The Continuum Analysis of Shear-Wall Structures, TB:73:III-21-271
Torsion of Perforated Concrete Shafts, ST5:May 69:991:6578
  Errata: ST2:Feb 70:437:7047
  TR:136:115
Dsc, ST12:Dec 73:2501:10185, of "Approximate Analysis of Tall Wall-Frame Structures", ST2:Feb 73:199:9550
Dsc, ST12:Dec 73:2505:10185, of "General Analysis of Nonplanar Coupled Shear Walls", ST3:Mar 73:365:9604
Dsc, ST9:Sept 74:1968:10772, of "Stress Analysis of Group of Interconnected Thin-Walled Cantilevers", ST10:Oct 73:2143:10089
Dsc, ST9:Sept 74:1974:10772, of "Three-Dimensional Interaction of Walls and Frames", ST12:Dec 73:2375:10193
Dsc, ST9:Sept 74:1977:10772, of "Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading", ST12:Dec 73:2355:10234

7

Rosner, John C.
See Milton E. Harr, SM4:July 69:933:6651

Ross, Grant A.
Bridge Foundation Behavior in Alaska Earthquake, with H. Bolton Seed and Ralph R. Migliaccio, SM4:July 69:1007:6664
Dsc: Harold A. Weggel, SM1:Jan 70:365:6989
TR:136:712
See Michel A. Sargious, TE4:Nov 71:579:8492

Ross, Harold
See William D. Won, EE3:June 73:205:9781

Ross, Hayes E., Jr.
Vehicle-Roadway Interaction Studies by Math Model, with Don L. Ivey, TE2:May 72:285:8914
TR:138:249
Wind Induced Vibration in Light Poles, with Thomas Charles Edwards, ST6:June 70:1221:7383
TR:136:986

Ross, Robert J.
See Harvey H. Haynes, ST6:June 72:1291:8963

Rostamian, Rouben
See Stephen A. Thau, EM5:Oct 74:919:10870

Rotaru, Grigore
See Iosif Gruner, TB:73:III-25-827

Rothbart, Harold
See John R. Baldwin, CO2:Nov 71:177:8501

Rothfus, Robert R.
See Kamlesh K. Jain, EE4:Aug 73:411:9945

Rothman, Herbert B.
Bridge Features Cable Stays, Precast Segmental Deck, with Fu-Kuei Chang, CE:Mar 74:56

Rothschild, Robert B.
Memoir of, TR:139:574

Roupe, Pamela A.
New Staff Members For Technical Activities: P. A. Roupe, CE:Aug 73:69

Rouse, Constantin
Jet-Induced Circulation and Diffusion, HY2:Mar 69:589:6445
Dsc: Helmut Kobus, HY1:Jan 70:280:6988
Clo: HY8:Aug 70:1716:7439
TR:135:1010

Rouse, Hunter
Fluid Mechanics Teaching and Research: A View from a Dean's Office, HY5:May 72:775:8899
TR:138:287
H. Rouse Joins Ranks Of ASCE Honorary Members, CE:Oct 73:89
Hydraulicians are Human Too, HY5:May 72:875:8877
TR:138:257
Work-Energy Equation for the Streamline, HY5:May 70:1179:7300
Dsc: Abhimanyu Swain, HY10:Oct 70:2159:7568; Henry Liu, HY12:Dec 70:2668:7711; Enzo O. Macagno, HY12:Dec 70:2669:7711
Clo: HY7:July 71:1138:8223
TR:136:1228

Rouse, John D.
Dsc, with Anatole Longinow and Richard L. Chiapetta, SM12:Dec 73:1174:10184, of "Engineering Computer Program Documentation Standards", SM3:Mar 73:249:9614

Rousseau, P. E.
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, TB:73:Ia-12-1153

Rovers, Frank A.
Infiltration and Landfill Behavior, with Grahame J. Farquhar, EE5:Oct 73:671:10047
TR:139:362

Rowan, William H., Jr.
Dsc, with Thomas S. Tarpy, Jr., ST7:July 69:1589:6644, of "Techniques for Analysis of Large Structures", ST11:Nov 68:2521:6233
See Thomas S. Tarpy, Jr., ST10:Oct 70:2249:7570

Rowe, Donald R.
Contamination of Oysters by Pesticides, with Larry W. Canter and J. W. Mason, SA5:Oct 70:1221:7619
TR:136:1294

Rowe, E. R.
Current European Views on Structural Safety, ST3:Mar 70:461:7132
Dsc: C. N. Srinivasan, ST10:Oct 70:2246:7570; Eivind Hognestad, ST12:Dec 70:2671:7714
Clo: ST9:Sept 71:2423:8348
TR:137:16

Rowe, Peter W.
Stress-Strain Relationships for Particulate Materials at Equilibrium, PES:73:III-327
Dsc, with Laing Barden, SM1:Jan 69:353:6324, of "Drained Strength Characteristics of Sands", SM6:Nov 67:117:5561
Dsc, with Laing Barden, SM1:Jan 69:439:6324, of "Water Distribution Systems Analysis", HY1:Jan 68:219:5758
Dsc, SM2:Mar 69:637:6429, of "Sheet-Pile Analysis by Distribution Theory", SM1:Jan 68:291:5769
Dsc, SM3:May 69:931:6525, of "Numerical Analysis of Flexible Retaining Structures", SM6:Nov 68:1233:6221
Dsc, SM4:Apr 71:704:8014, of "Comparison of Stress-Dilatancy Theories", SM5:Sept 70:1697:7516

Rowe, R. Robinson
Lake Michigan-Huron Stage-Frequency and Trend, WW3:Aug 69:261:6716
Dsc: Edmond Megerian, WW3:Aug 70:731:7443
Clo: WW2:May 71:401:8086
TR:136:171
Dsc, SU2:Sept 68:280:6091, of "The Unsymmetrical Vertical Parabola", SU1:Jan 68:61:5739
Dsc, SU1:Sept 73:136:9965, of "Barometric Leveling Analysis", SU1:July 72:93:9053
Dsc, HY8:Aug 74:1190:10696, of "Hydrologic Evaluations in Bridge Pier Scour Design", HY12:Dec 73:2175:10224

Rowland, Robert D.
Final Committee Position on The AGC's Recommendation that Approved Securities be Posted in Lieu of Retained Percentages, by the Committee on Contract Adminstration of the Construction Division, CO2:Nov 71:271:8517
TR:137:1001
Report on Recommended Amendments to AIA General Conditions (A-201), Eleventh Edition, September, 1967, by the Committee on Contract Administration of the Construction Division, CO2:Oct 70:165:7640
Dsc: John D. Bristor and Howard L. Underberger, CO2:Nov 71:337:8482; AIA Documents Board, CO11:Nov 71:339:8482

Rowland, S. J.
See Neil T. Monney, CO1:Jan 68:89:5760

Rowlison, Dale L.
Rational Model Describing Slope Erosion, with Glen L. Martin, IR1:Mar 71:39:7981
Clo: IR1:Mar 72:159:8750
TR:137:387

Roy, Geoffrey G.
Dsc, with Leonard K. Stevens and A. Raymond Toakley, ST8:Aug 70:1832:7442, of "Optimum Elastic Design of Redundant Trusses", ST12:Dec 69:2589:6938

Roy, John R.
Numerical Error in Structural Solutions, ST4:Apr 71:1039:8036
Dsc: Robert W. Gerstner, Raymond M. Puzerewski and Donald M. Schultz, ST12:Dec 71:2924:8557
Clo: ST7:July 72:1663:9003
TR:137:569
Dsc, ST12:Dec 69:2994:6932, of "Efficient Solution of Load-Deflection Equations", ST4:Apr 69:661:6510
See John H. Argyris, ST2:Feb 72:465:8732
See John H. Argyris, EM6:Dec 72:1599:9390
See Th. Lunde Johnsen, ST8:Aug 74:1726:10697

Roy, N.
See S. N. Ghosh, HY4:Apr 70:967:7241

Roy, Prasanta
See John Schroeder, EM1:Feb 71:63:7888

Royer, King
Wood Design Criteria for Concrete Formwork, CO2:Sept 67:13:5432
Dsc: M. K. Hurd, CO2:Oct 68:253:6131; Martin L. Moody and Walter L. Meyer, CO2:Oct 68:255:6131; Peter D. Courtois, CO2:Oct 68:256:6131
TR:135:482

Royse, Eston Earl
Memoir of, TR:135:1142

Rozovsky, I. L.
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, with A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649

Rozvany, George I.N.
Absolute Minimum Volume Of Reinforcement In Slabs, with Sai R. Adidam, TN: ST5:May 72:1217:8896
Duality Between Limit Analysis and Limit Design, TN: EM6:Dec 71:1763:8559
Lower Bound Optimal Design of Concrete Structures, with M. Z. Cohn, EM6:Dec 70:1013:7778
Errata: EM2:Apr 72:475:8798
TR:137:528
Nonconvex Structural Optimization Problems, TN: EM1:Feb 73:243:9528
Optimal Flexure Fields for Corners, TN: EM4:Aug 74:10692
Optimal Plastic Design for Bending and Shear, TN: EM10:Oct 73:1107:10041
Rectangular Grillages of Least Weight, with Sai R. Adidam, EM6:Dec 72:1337:9404
Dsc: Robert E. Melchers and Peter G. Lowe, EM6:Dec 73:1301:10181
Clo: EM4:Aug 74:814:10694
TR:139:148
Slabs with Variable Straight Reinforcement, with Donald E. Charrett, ST5:May 71:1521:8095
TR:137:442
Dsc, ST3:Mar 71:969:7944, of "Behavior of Simply Supported Slabs", ST12:Dec 69:2703:6945
See Robert E. Melchers, EM6:Dec 70:1093:7739

Rubanenko, B.
Design and Construction of Tall Buildings, State-of-Art Report 12, TB:73:Ia-1-231

Rubin, H.
Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), TB:73:II-17-709

Rubin, Hillel
Drag Reduction Application in Fire Fighting Systems, SA1:Feb 72:1:8697
TR:138:149

Rubin, Llewellyn A.
An Overview of Horizontal-Borehole Geophysical Techniques, EFSE:Aug 74:233
Dsc, EFSE:Aug 74:370, of "Benefits of Tunnel Measurements", EFSE:Aug 74:366

Rubin, Meyer
See William Back, HY11:Nov 70:2325:7702

Rubinstein, Moshe F.
Analysis by Group Iteration Using Substructures, with Duane E. Wikholm, ST2:Feb 68:363:5779
Dsc: Walter A. Von Riesemann, ST8:Aug 68:2022:6050; Menachem Gellert and Harold Gluck, ST11:Nov 68:2638:6203; Harold C. Martin, ST11:Nov 68:2635:6203
Clo: ST8:Aug 70:1797:7442
TR:135:335
Conjugate Gradient and Decomposition - Analogy, TN: ST8:Aug 71:2165:8275
Stability of Framed Structures, with Richard M. Pickett, Jr., TN: EM2:Apr 73:429:9641
See Richard Rosen, ST3:Mar 70:663:7169
See Uri Kirsch, EM1:Feb 72:61:8706
See Antone F. Sayegh, EM6:Dec 72:1547:9435

Ruchelman, Leonard
See Charles Brownstein, TB:72:C-AC19-151

Ruckelshaus, William D.
Will Air Pollution Regulations Change Commuting Patterns?, CE:Sept 71:86
TR:137:589

Ruckhaus, Fred
Prestressed Concrete Transmission Line Structures, PO1:May 68:25:5934
Dsc: G. N. Pande, PO2:Oct 69:360:6801
Clo: PO3:June 70:485:7312
TR:135:637

Ruff, James F.
Clarks Fork Yellowstone River Remote Sensing Study, with John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305
Clarks Fork Yellowstone River Remote Sensing Study, with John W. Keys, III and Morris M. Skinner, HY6:June 74:719:10584
Turbulent Shear Flow in Porous Boundary, with Lynn W. Gelhar, EM4:Aug 72:975:9144
Errata: EM3:June 73:602:9759
TR:139:100

Ruiter, Earl R.
See Marvin L. Manheim, UTI:71:207

Ruiz, A. L.
Dsc, with John P. Gnaedinger, SM10:Oct 73:889:10038, of "Strength Properties of Chemically Solidified Soils", SM11:Nov 72:1163:9332

Ruiz, Patricio
Dsc, EM3:June 71:1024:8154, of "Maximum Structural Response to Seismic Excitations", EM5:Oct 70:729:7620

Ruiz, Walter M.
Reinforced Concrete Beams Under Repeated Loads, with George Winter, ST6:June 69:1189:6601
Dsc: Ganpat S. Pandit, ST5:May 70:734:7116
Clo: ST10:Oct 70:2230:7570
TR:136:133

Rumer, Ralph R., Jr.
Civil Engineering Education in Transition: A Case Study, with George C. Lee, CEE:Feb 74:1-24

Interfacial Wave Breaking in Stratified Liquids, HY3: Mar 73:509:9633
Errata: HY12:Dec 73:2390:10182
TR:139:245
See Robert P. Apmann, HY1:Jan 70:109:7018
See Jong-Chiang Shiau, HY12:Dec 73:2251:10222
See Jong-Chiang Shiau, HY1:Jan 74:119:10261

Rumman, Wadi S.
Basic Structural Design of Concrete Chimneys, PO3: June 70:309:7334
Dsc: Robert W. Peirce, PO1:Jan 71:258:7784
Clo: PO3:July 71:718:8256
TR:137:914

Rumpf, John L.
Technician and Technologist Education in 1974, CEE:Feb 74:1-210
Technician and Technology Programs, CEE:Feb 74:2-49
See William W. Moore, CEE:Feb 74:1-905

Runacher, J. M.
See Jean-Pierre Giroud, SM2:Mar 70:768:7115

Runge, Karl H.
See Karl M. Romstad, TN: EM6:Dec 74:1286: 107979

Runyan, Edwin Joe
Gate Arrival Terminal for Kansas City MCI Airport, TE2:May 69:229:6532
TR:135:387
KCI Airport Planned for Jet Age, CE:Nov 72:41
TR:138:480

Rusche, Fredric
Thin-wall Pile Driven by Improved Technique, CE: Jan 71:54
TR:137:43

Rushbrook, Edward L., Jr.
Rapid Determination of Evenly Distributed Load Effects, CE:Oct 70:52

Rushing, John W.
See Mason B. Oldham, Jr., WW1:Feb 70:65:7060

Russel, J. E.
Residual Stresses in Rock, with E. R. Hoskins, RM14:73:1

Russell, Alan D.
Dsc, with Kenneth F. Reinschmidt, ST9:Sept 71: 2437:8348, of "Optimum Design of Trusses for Ultimate Loads", ST1:Jan 71:157:7838
See Kenneth F. Reinschmidt, ST8:Aug 70:1829:7442
See Samuel L. Lipson, ST8:Aug 71:2057:8291

Russell, Bruce E.
See James L. Ash, EFSE:Aug 74:97

Russell, Dwight P.
See T. Clark Lyons, IR73:Aug 73:529

Russell, Eugene R.
Liquid Limit Values by Soil Moisture Tension, with L. Jack Mickle, SM3:May 70:967:7298
Dsc: Hassan A. Sultan, SM1:Jan 71:272:7785; Solomon Alao Adigun, SM2:Feb 71:505:7866
Clo: SM10:Oct 71:1488:8410
TR:136:1222

Russell, K. S.
See Johan A. Zwamborn, CE13:72:I-75

Russell, Larry R.
Probability Distributions For Hurricane Effects, CEO-II:70:835
Probability Distributions for Hurricane Effects, WW1:Feb 71:139:7886
Clo: WW1:Feb 72:101:8686
TR:137:198

Russell, Lindsay
See Douglas R. Piteau, RM13:72:1

Russell, Randolph
Dsc, CE:Apr 70:49, on The Highway Explosion, CE: Dec 69:71

Russell, Robert C. H.
Full Scale Observation of the Behavior of Moored Ships, BMS:71:133
Dsc: Robert C. H. Russell, BMS:71:145
Model Investigation of Berthing Impacts, BMS:71: 215
Dsc: Fernando Vasco Costa, BMS:71:223
The Moored Ship as an Oscillating System, BMS:71: 48
Offshore Mooring Systems, BMS:71:254
Dsc, BMS:71:143, of "Full Scale Observation of the Behavior of Moored Ships", BMS:71:130
Dsc, BMS:71:145, of "Full Scale Observation of the Behavior of Moored Ships", BMS:71:133
Dsc, BMS:71:207, of "The Added Mass of a Ship in Longitudinal Oscillation", BMS:71:174

Russell, Roy R.
Hyperbolic Paraboloid Structures on Four Supports, with Kurt H. Gerstle, ST4:Apr 68:995:5902
Dsc: Jehangir F. Mirza and W. Burton Castner, ST2:Feb 69:280:6373
Clo: ST10:Oct 69:2320:6803
TR:135:554

Russell, Samuel O.
Reservoir Operation With Imperfect Flow Forecasts, with William F. Caselton, HY2:Feb 71:323:7931
Dsc: C. O. Clark, HY7:July 71:1161:8223; Chester C. Kisiel, HY12:Dec 71:2105:8552
Clo: HY7:July 72:1330:9000
TR:137:660
Use of Decision Theory in Reservoir Operation, HY6:June 74:809:10586
See C. Anthony Tsou, HY5:May 73:833:9732

Russin, Eugene M.
See Richard L. Ribe, WAVES:Sept 74:396

Rutenbeck, Todd E.
New Developments in In-Place Testing of Shotcrete, SUSS:July 73:246

Rutenberg, Avigdor
Dsc, ST4:Apr 72:942:8802, of "Framed Tube Structures for High-Rise Buildings", ST8:Aug 71: 2097:8301
Dsc, ST3:Mar 73:586:9583, of "Perimetral Tube for 37-Story Steel Building", ST6:June 72:1255:8937
Dsc, ST9:Sept 73:1959:9964, of "Structure-Foundation Interaction Analyses", ST11:Nov 72: 2413:9352
See Joram M. Amir, GT3:Mar 74:375:10378

Ruth, Byron E.
See Roger K. Seals, SM4:Apr 72:311:8817

Ruth, Leo W.
See William W. Moore, CEE:Feb 74:1-905

Rutherford, G. Scott
Goal Formulation for Socio-technical Systems, with Joseph L. Schofer and Martin Wachs, UP2:Sept 73: 157:9985
Dsc: A. Reed Gibby, UP2:Nov 74:203:10902
TR:139:397
See John A. Roberson, HY7:July 72:1187:9061

Rutherford, J. Christopher
Simulation of Water Quality in Tarawera River, with Michael J. O'Sullivan, EE2:Apr 74:369:10461

Rutkowski, E. V.
Lunagem--A Lunar Mobility Aid, ESE:Apr 70:17

Rutledge, Philip C.
Utilization of Marginal Lands for Urban Development, SM1:Jan 70:1:7000
TR:136:397

Rutt, Frank E.
Dsc, Bidding Procedure, CE:Nov 73:20

Rutter, E. H.
The Effects of Temperature, Confining Pressure, Strain-Rate and Interstitial Water on the Rheological Behavior of Calcite Rocks -- Abstract, RM14:73:753

Ruud, Millard H.
Involvement of Practitioners in Education for the Practice of Law, CEE:Feb 74:2-210

Ruus, Eugen
Flow Through Trifurcations and Manifolds, HYB:Aug 73:227
Head Losses in Wyes and Manifolds, HY3:Mar 70:593:7130
Dsc: John G. Stavropoulos, HY11:Nov 70:2392:7641
Clo: HY6:June 71:864:8155
TR:136:596
Stability of Oscillations in Simple Surge Tank, HY5:Sept 69:1577:6773
Dsc: George R. Rich, HY1:Jan 70:304:6988; Mohammad Hanif Chaudhry, HY5:May 70:1221:7248; Jelena Vucetic, HY8:Aug 70:1723:7439
Clo: HY3:Mar 71:447:7940
TR:136:213

Ryan, Alfred Joseph
Memoir of, TR:135:1143

Ryan, Bruce A.
See Robert E. Ball, ST10:Oct 73:2097:10072

Ryan, Christopher R.
ASCE and Public Policy, CE:Nov 71:78
See Leslie G. Bromwell, 4PCSM:71:II333

Ryan, J. T.
Dsc, Special issue on Urban Development, CE:Jan 70:73
Dsc, CE:Jan 70:73, on A Black Civil Engineer Looks at His Profession, CE:Sept 69:93

Ryan, Patrick J.
Transient Cooling Pond Behavior, with Donald R.F. Harleman, HYB:Aug 73:191
See Wayne C. Huber, HY4:Apr 72:645:8839

Rydzewski, Janusz R.
An Approach to Analysis of Arch Dams in Wide Valleys, with Richard W. Humphries, PO1:May 73:165:9710
TR:139:254
Dsc, CE:Feb 72:65, on Dams and Ecology: Can They be Made Compatible?, CE:Sept 71:76

Ryker, Norman L.
See James L. Sherard, PES:72:I-589
See James L. Sherard, PES:72:I-653

Saada, Adel S.
One Dimensional Consolidation in Triaxial Cell, TN: SM3:May 70:1085:7253
Strain-Stress Relations and Failure of Anisotropic Clays, with Chin-Der Ou, SM12:Dec 73:1091:10225
Errata: GT10:Oct 74:1167:10838
TR:139:520
Stress-Controlled Apparatus for Triaxial Testing, SM6:Nov 67:61:5555
Dsc: Earl B. Hall, SM1:Jan 69:346:6324
Clo: SM5:Sept 69:1258:6754
TR:135:389
Testing of Anisotropic Clay Soils, TN: SM5:Sept 70:1847:7502
Dsc, SM1:Jan 72:132:8622, of "Bearing Capacity of Anisotropic Cohesive Soil", SM5:May 71:753:8146

Saafan, Saafan A.
Theoretical Analysis of Suspension Roofs, ST2:Feb 70:393:7107
TR:136:588
Dsc, ST4:Apr 69:764:6486, of "Behavior of Elastic-Plastic Frames", ST5:May 68:1119:5942

Saarits, Raymond
Dsc, WW3:Aug 70:751:7443, of "Surge Problems in Canals with High-Lift Locks", WW2:Nov 69:467:6898

Sabin, T. M.
See R. E. Moore, IRS:Sept 72:243

Sabir, Adnan B.
Dsc, ST5:May 72:1208:8861, of "Natural Frequencies of Circular Arches", ST9:Sept 71:2337:8393

Sabzevari, Ali
Aerodynamic Instability of Suspension Bridges, with Robert H. Scanlan, EM2:Apr 68:489:5889
Dsc: Milos Novak and Alan G. Davenport, EM1:Feb 69:291:6371; Milos M. Dicker, EM5:Oct 69:1271:6800
Clo: EM5:Oct 69:1277:6800
TR:135:843
Aerodynamic Investigations of Box Girder Bridges, with Robert H Scanlan, ST7:July 69:1517:6684
TR:135:1018
Dynamic Passive Earth-Pressure Problem, with Arsalan Ghahramani, GT1:Jan 74:15:10285

Sachdev, Labh S.
Dsc, with William E. Popp, TE1:Feb 71:167:7864, of "Urban Mass Transportation: Review and Analysis", TE2:May 70:175:7277
Dsc, TE1:Feb 71:168:7864, of "Social Considerations of Urban Transportation Systems", TE3:Aug 70:333:7471
See Amos Roos, TE2:May 70:247:7251

Sachs, Klaus
See Robert H. Scanlan, EM4:Aug 74:635:10703

Sacrison, Hans
Flathead Railroad Tunnel Construction, CO1:Mar 71:127:8009

Sadasivan, S.
See M. H. Abdul Khader, EM6:Dec 74:1266:10972

Sadasivan, Sekanoor K.
See Vegesna S. Raju, TN: GT4:Apr 74:482:10454

Sadeh, Willy Z.
Turbulence Effect on Wall Pressure Fluctuations, with Jack E. Cermak, EM6:Dec 72:1365:9445
Dsc: Peter Freymuth, EM6:Dec 73:1305:10181
Errata: EM5:Oct 73:1100:10041
TR:139:172

Sadigh, Khosrow
See Bernard B. Gordon, GT5:May 74:523:10553

Sadow, Ronald D.
Dsc, SA5:Oct 69:966:6802, of "Deep-Well Disposal of Wastes", SA5:Oct 68:945:6171

Saenz, Jose Tinajero
Settlement Around Shield Driven Tunnels (In Spanish), with Luis Vieitez Utesa, 4PCSM:71:II225

Saenz, Luis P.
Dsc, EI3:July 74:261:10633, of "Art in Engineering - The Need for a New Criticism", PP4:Oct 73:499:10102

Saffir, Herbert S.
Hurricane Exposes Structural Flaws, CE:Feb 71:54
TR:137:135

Dsc, ST1:Jan 70:165:6990, of "Guide for the Design of Aluminum Formed-Sheet Building Sheathing", ST8:Aug 69:1727:6744
Dsc, WW2:Feb 72:132:8686, of "Wind and Surge Damage Due to Hurricane Camille", WW2:May 71: 355:8144
Dsc, ST7:July 73:1676:9826, of "Failures of Structures Due to Extreme Winds", ST11:Nov 72: 2455:9324

Safwat, Hemmat H.
Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes, with Jaap v.d. Polder, HY11:Nov 73:1933:10158
Dsc: Alexander Anderson, HY9:Sept 74:1290: 10770; Murray Clamen and Paul Minton, HY9: Sept 74:1292:10770
TR:139:448
Photographic Study Of Water Column Separation, TN: HY4:Apr 72:739:8803

Sagaseta, C.
See L. Canizo, SM8:Aug 72:831:9078

Sage, Roy
See Noel J. Gardner, TN: GT9:Sept 74:1081:10774

Sagesser, Rolf
See Richard D. Woods, GT11:Nov 74:1231:10949

Saghera, Santokh S.
Positive Moment and Inflection Points for Continuous and Fixed Beams, CE:Dec 70:30
Dsc: James R. Libby, CE:May 71:52; Ashok Kumar Chugh, CE:May 71:52
TR:136:1173

Sagiv, Abraham
See Michael Poreh, HY10:Oct 70:2065:7637

Sahasrabudhe, S. J.
See K. G. Ranga Raju, HY12:Dec 72:2224:9391

Sahlin, Sven
High Quality Structural Masonry Based on Controlled Parameters, TB:73:III-27-1086
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, TB:73:III-22-373
Dsc, ST3:Mar 72:775:8752, of "Stability and Load Capacity of Members with No Tensile Strength", ST7:July 71:1913:8253
See Anthony E. Fiorato, TB:73:Ib-9-893

Saigal, Krishan K.
See Jong-Song Chien, HY8:Aug 74:1141:10766

Sailor, Vance L.
Conservation of Energy in Buildings, CO3:Sept 74: 295:10795

Saini, Sarjit S.
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, with Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
TR:138:319
See Anjur R. Chandrasekaran, ST4:Apr 69:649:6503

Sakai, Tetsuo
See Yuichi Iwagaki, 12CEC:71:309
See Yuichi Iwagaki, CE13:72:I-347

Sakkas, John G.
Dam-Break Flood in a Prismatic Dry Channel, with Theodor S. Strelkoff, HY12:Dec 73:2195:10233
Dsc: Irvin C. Martens, HY10:Oct 74:1501:10839
TR:139:489
Hydrodynamics of Surface Irrigation - Advance Phase, with Theodor S. Strelkoff, IR1:Mar 74:31: 10422
Irrigating with Cut-Back Furrow Streams, with William E. Hart, IR1:Mar 68:91:5852
Dsc: John L. Merriam, IR1:Mar 68:240:6428
Clo: IR4:Dec 69:591:6930
TR:135:455

Sako, Lloyd
Proximal Decisions in Traffic Intersections, with Samuel Zundelevich, TE3:Aug 73:597:9915
TR:139:360

Sakthivadivel, Ramaswamy
Clogging of Porous Column of Spheres by Sediment, with Hans Albert Einstein, HY2:Feb 70:461:7075
TR:136:506
Dsc, with S. Seetharaman and M. V. Somasundaram, HY3:Mar 70:855:7113, of "Manning n for Cast-in-Place Concrete Pipe", HY3:May 69:995:6575
Dsc, with S. Seetharaman and M. V. Somasundaram, HY7:July 70:1621:7384, of " Needle Valves as Pressure Regulators", HY5:Sept 69:1633:6787
Dsc, with S. Seetharaman, HY1:Jan 71:180:7783, of "Designing Spillway Crests for High-Head Operation", HY3:Mar 70:745:7153
Dsc, with S. Seetharaman and G. Padmanabhan, HY10:Oct 71:1767:8407, of "Cavitation Parameters for Outlet Valves", HY12:Dec 70:2519:7771
See D. Chandrasekaran, HY12:Dec 72:2229:9391

Sakuma, Noboru
Excitation of Waves Inside a Bottomless Harbor, with Johannes Buhler and Robert L. Wiegel, CE13: 72:III-2005

Salam, Ahmed E.
See Johnny M. Hutt, EM3:June 71:879:8211

Salama, Ahmed E.
Response of Nonlinear Beams and Plates to Ponding, with Martin L. Moody, EM1:Feb 69:195:6402
TR:135:195
See Harry R. Lundgren, EM2:Apr 71:477:8051

Salane, Harold J.
Finite-Difference Methods for Plate Vibration Problems, with Hudson Matlock, ST3:Mar 69:441: 6477
Dsc: D. Jack Bayles, ST2:Feb 70:415:7047
Clo: ST9:Sept 70:1959:7567
TR:136:55

Salas, Jose A.J.
Dsc, SM1:Jan 69:367:6324, of "Seismic Failures of Chilean Tailings Dams", SM6:Nov 67:237:5582

Salcedo, Dan
Irrigation Timing to Maximize Economic Crop Yields, with W. L. Meier, Jr., OIDS:72:81

Sale, James P.
Membrane Encapsulated Soil Layers, with Frazier Parker and Walter R. Barker, SM12:Dec 73:1077: 10240
TR:139:542

Salem, Abdelsalm M.
Consolidation Characteristics of Dredging Slurries, with Raymond J. Krizek, WW4:Nov 73:439:10157
TR:139:523

Salem, Adel Helmy
Buckling of Rigidly-Jointed Plane Trusses, ST6:June 69:1271:6628
Dsc: John E. Goldberg, ST1:Jan 70:161:6990
Errata: ST2:Feb 70:439:7047
Clo: ST7:July 70:1594:7386
TR:135:1007
Buckling of Trapezoidal Frames Permitted to Sway, ST12:Dec 69:2621:6940
Errata: ST7:July 70:1619:7386
TR:136:416
Stability of Unbraced Single-Bay Multistory Frames, ST2:Feb 73:223:9552
Errata: ST12:Dec 73:2502:10185
TR:139:221
Dsc, ST11:Nov 68:2627:6203, of "Strength and Behavior of an Inelastic Hybrid Frame", ST1:Jan 68:243:5759

Dsc, ST2:Feb 69:298:6373, of "Analysis of Unbraced Multistory Steel Rigid Frames", ST5:May 68:1143: 5944
Dsc, ST5:May 69:1017:6526, of "Buckling Analysis of One-Story Frames", ST9:Sept 68:2107:6118
Dsc, ST8:Aug 69:1781:6707, of "Lateral Buckling of Braced Multistory Frames", ST12:Dec 68:2963: 6307
Dsc, ST2:Feb 70:427:7047, of "Design and Analysis of Frames for Stability", ST4:Apr 69:695:6522

Salem, Mohammad H.
See William C. Schnobrich, ST10:Oct 72:2327:9227

Sales, Francis H.
See Erik G. Thompson, SM9:Sept 72:899:9202

Salgo, Michael N.
Dsc, CE:Dec 71:67, on Graving Dock for 300,000-ton Ships, CE:June 71:71

Saliman, Richard S.
Testing Transmission Line Belled Auger Footings, PES:72:I-1501

Sall, Dale W.
See James A. Robertson, Jr., IR73:Aug 73:179

Sallen, J. Ronald
Tolerable Settlements of Steam Turbine-Generators, with Ralph B. Peck, PO2:Oct 69:227:6841
Dsc: K. Ludwig, PO3:June 70:488:7312
Clo: PO2:Mar 71:585:7942
TR:136:86

Salley, James R.
See Melvin T. Davisson, SM5:Sept 70:1605:7511
See Melvin T. Davisson, PES:72:I-981

Sallwasser, George M.
Design and Construction of Sanitary and Storm Sewers (Book Review), CE:June 70:88

Salmela, Larry
See Paul P. Christiano, TN: ST6:June 71:1835:8164

Salmon, Charles G.
See Paul A. Seaburg, EC5:70:319
See Paul A. Seaburg, ST1:Jan 71:203:7830
See Chung-Hyun Nam, ST12:Dec 74:2419:11016

Salmon, Martin A.
Wave Diffraction by Rigid Foundations, TN: EM4: Aug 73:902:9898
See Stephen A. Thau, EM1:Feb 73:225:9522

Salomone, Lawrence A.
See Ian Watson, EPCE:Aug 74:557

Salonen, Eero-Matti
Triangular Framework Model for Plate Bending, TN: EM1:Feb 71:149:7858

Saltzman, Arthur
Patterns of Mobility of Working Poor, with Alice E. Kidder, TE3:Aug 74:769:10760
Transportation Research for Community Objectives, with Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
TR:138:555

Salvadori, Mario G.
Making Engineering Curricula More Relevant, CE: June 74:70
Spandrel-Slab Interaction, ST1:Jan 70:89:7017
Dsc: Umakanta Behera, ST11:Nov 70:2537:7644; Max Reiss, ST12:Dec 70:2666:7714
Clo: ST7:July 71:2016:8225
TR:136:810
Dsc, with David H. Geiger, ST10:Oct 68:2506:6135, of " Integral Equation Method for a Corner Plate", ST1:Jan 68:41:5711

Salvato, Joseph A., Jr.
Environmental Health and Community Planning, UP1:Aug 68:23:6084
Dsc: Daniel Gorfain, UP1:Mar 70:98:7119
Clo: UP2:Oct 70:163:7571
TR:136:238

Salver, Henry A.
See Richard E. Gray, SM5:Sept 70:1814:7499
See Richard E. Gray, PISST:71:253
See Richard E. Gray, SM1:Jan 71:258:7785

Sami, Sedat
Space Correlations in Round Turbulent Jet, HY3: May 69:907:6565
TR:135:62
Dsc, HY1:Jan 69:518:6323, of "Measurement of Turbulence in Water", HY2:Mar 68:411:5855

Sammons, William H.
See David McGinnis, Jr., HY5:May 70:1201:7248
See Thomas L. Brown, HY1:Jan 71:182:7783

Sampath, V. S.
Dsc, HY8:Aug 71:1251:8267, of "Periodic Permanent Roll Waves", HY12:Dec 70:2565:7764

Sample, Allan H.
Commentary, CEWAU:74:275

Sampson, Richard A.
See Robert Park, ST7:July 72:1341:9011

Samson, Charles H., Jr.
See Fred J. Benson, CEE:Feb 74:1-772

Samuels, Reuben
See Bernard P. Monahan, CEWAU:74:78

Samuelson, James A.
See Richard A. Kravitz, PO2:Oct 69:305:6855

Sanan, Bal K.
Viscoelastic Shrinkage Stress in Soil-Cement Base, with Kalankamary P. George, SM12:Dec 72:1375: 9454
Dsc: Mitsunori Kawamura, SM7:July 73:578:9825
Clo: GT3:Mar 74:369:10378
TR:139:195

Sanchez Bribiesca, Jose Luis
Dsc, with Rodolfo Del Castillo Muris, HY11:Nov 73: 2151:10109, of "Damage to Karnafuli Dam Spillway", HY12:Dec 72:2155:9452

Sanders, H. David
See John T. Novak, TN: EE3:June 74:798:10571

Sanders, John I.
See Robert E. Glover, HY11:Nov 74:1519:10934

Sanders, John W.
See Robert C. St. Clair, EPCE:Aug 74:525

Sanders, Paul M.
Evaluation of the Risk of Vehicle Impact on Structures, STF:73:87

Sanders, Wallace W., Jr.
Load Distribution in Steel Railway Bridges, with William H. Munse, ST12:Dec 69:2763:6952
Dsc: Mahlon J. Plumb, ST5:May 70:1006:7250
Clo: ST12:Dec 70:2665:7714
TR:136:435
See J. G. Arendts, ST11:Nov 70:2353:7695

Sandhu, Balbir S.
Economical Design of Reinforced Concrete Slabs and Walls, CE:July 71:68
TR:137:479

Sandhu, Raghbir S.
See Frank J. Tokarz, ST5:May 72:1161:8922
See W. Karwoski, RM14:73:752

Sandhu, Ranbir S.
Finite-Element Analysis of Seepage in Elastic Media, with Edward L. Wilson, EM3:June 69:641:6615
Errata: EM4:Aug 71:1293:8266
TR:136:770

Sandi, Horea
Failure Model Calculations, TB:73:Ib-10-1038
Limit State for Dynamic Loads, TB:73:III-26-938
Loads and Load Combinations, State-of-Art Report 4, TB:73:Ib-10-973
Non-Synchronous Ground Motion, TB:73:Ib-6-325

Sandler, Ivan S.
See Frank L. DiMaggio, EM3:June 71:935:8212
See Melvin L. Baron, EM6:Dec 73:1181:10210

Sandoval, A.
Tower No. 22 -- San Borja Residential Renewal Project, with A. Vives, TB:73:C-P-472

Sandover, John A.
Theories of Closure of Rockfill Dams, CO2:Nov 71:313:8542
Dsc: Bishnu Prasad Das, CO1:July 73:210:9822
Clo: CO1:Mar 74:99:10377
TR:139:126

Sandstrom, Ake
New Equipment for Field Measurement of Water Surface Waves, WAVES:Sept 74:272

Sandstrom, Gosta E.
Stockholm Puts Sewage Plant Underground, with Edlund Strom, CE:Sept 73:78
Errata: CE:Nov 73:20
TR:139:399

Sangal, Suresh
Dsc, with E. Benjamin Wylie, TE4:Nov 69:689:6868, of "Optimal Construction Staging by Dynamic Programming", HW2:Nov 68:255:6215

Sanger, Frederick J.
Ground Freezing in Construction, SM1:Jan 68:131:5743
Dsc: Hugh Q. Golder, SM1:Jan 69:425:6324
Errata: SM5:Sept 69:1271:6754
Clo: SM1:Jan 70:295:6989
TR:135:636

Sanglerat, Guy C.
Dsc, SM11:Nov 71:1601:8484, of "Electric Penetrometer For Site Investigations", SM2:Feb 71:457:7907
Dsc, 4PCSM:72:III99, of "The Standard Penetration Test", 4PCSM:71:I1
See J. Gielly, SM2:Feb 71:508:7866

Sangrey, Dwight A.
The ME(Civil) Program at Cornell University - Part 1 - Program Development, with George Winter, CEE:Feb 74:1-779
Dsc, SM3:May 70:1067:7249, of "Property Interrelationships in Sensitive Clays", SM4:July 69:1037:6666
See R. J. Mitchell, CE13:72:II-1515
See R. J. Mitchell, PES:72:I-1051

Sangster, William M.
Future Goals and Directions - The Educator's Viewpoint, CEE:Feb 74:2-280
Sangster Is President-Elect; Other Officers For '74 Elected, CE:Sept 73:110
Two Men Nominated For President-Elect William M. Sangster, Official Nominee, CE:July 73:90
Views of Candidates for President-Elect: Sangster, CE:July 73:91
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Sani, Sarjit S.
See Anjur R. Chandrasekaran, HY5:May 72:887:8923

Sankaran, Kolinjuvadi S.
Dsc, with D. Venkateswara Rao, SM7:July 71:1038:8224, of "Mechanisms Controlling Compressibility of Clays", SM6:Nov 70:1863:7649
Dsc, with Madurachari S. Subrahmanyam, SM8:Aug 71:1131:8270, of "Calculated and Observed Vibration Amplitudes", SM1:Jan 71:141:7789
Dsc, with Madurachari S. Subrahmanyam, SM9:Sept 71:1345:8347, of "Dynamic Moduli and Damping Ratios For Soft Clay", SM1:Jan 71:59:7813
Dsc, with D. Venkateshwar Rao, SM12:Dec 71:1714:8556, of "Aging Effects on Swell Potential of Compacted Clays", SM3:Mar 71:529:7951
Dsc, with Ravikumar Bhaskaran, SM8:Aug 73:635:9892, of "Analysis of Waco Dam Slide", SM9:Sept 72:869:9210

Sanks, Robert L.
See Takashi Asano, EE4:Aug 74:855:10707

Santathadaporn, Sakda
Analysis of Biaxially Loaded Steel H-Columns, with Wai F. Chen, ST3:Mar 73:491:9621
TR:139:266
Tangent Stiffness Method for Biaxial Bending, with Wai F. Chen, ST1:Jan 72:153:8637
Dsc: Clifford O. Hays, Jr., ST9:Sept 72:2125:9159
Clo: ST3:Mar 73:578:9583
TR:138:93
See Wai F. Chen, ST12:Dec 68:2999:6316
See Wai F. Chen, EM1:Feb 69:21:6382
See Wai F. Chen, EM2:Apr 70:188:7188

Santhakumar, A. R.
Dsc, ST4:Apr 70:846:7191, of "Shear Strength of Reinforced Concrete Beams", ST6:June 69:1339:6636
Dsc, with L. K. Kamaraj and M. Lakshmipathy, EM3:June 70:370:7309, of "Bearing Capacity of Concrete Block or Rocks", EM4:Aug 69:955:6742

Santos-Moreno, Antonio
Summary Representation Applied to Seepage Problems, with Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141:8738
TR:138:144

Santry, Israel W., Jr.
See J. Charles Jennett, SA5:Oct 69:849:6833

Sanyal, M.
Dsc, Engineering Education, CE:Sept 70:77

Sapru, K.
See Unnikrishna S. Pillai, TN: ST5:May 74:1162:10536

Saragoni, G. Rudolfo
A New Kind of Ground Motion, TB:73:Ib-6-323
See E. Calcagni, TB:73:C-P-462

Saran, Swami
See Jagdish Narain, SM4:July 69:969:6655
See Shamsher Prakash, SM1:Jan 71:95:7814

Sardi, Victor
Dsc, with Celetino Martinez de la Plaza, HY7:July 73:1182:9823, of "Chapter V: Sediment Control Methods: C. Control of Sediment in Canals", HY9:Sept 72:1647:9177

Sargeant, Homer I.
Wave Heights Expressed in Engineering Terminology, with Richard C. Timme, WAVES:Sept 74:433

Sargent, George A.
Railroad Freight Movement—Some New Concepts and Current Plans, TE2:May 74:475:10562

Sargent, Howard L.
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, CE:Sept 72:54
  Dsc: D. Kelly O'Day, CE:Jan 73:59
  TR:138:389

Sargious, Michel A.
Rigid Pavement Stresses Under Aircraft Loading, with Grant A. Ross and Gerald A. LeMoal, TE4: Nov 71:579:8492
  TR:137:1012
See Sue K. Wang, TE1:Feb 72:37:8699
See Sue K. Wang, TE2:May 73:255:9721

Sargunam, Arunachalan
Physico-Chemical Factors in Erosion of Cohesive Soils, with Patrick Reley, Kandiah Arulanandan and Ray B. Krone, TN: HY3:Mar 73:555:9609

Sarja, Asko
Dsc, ST11:Nov 72:2632:9307, of "Slender Concrete Columns Under Sustained Load", ST11:Nov 71: 2729:8544

Sarkar, Asok K.
See Arun K. Deb, SA2:Apr 71:141:8032

Sarkar, Kalyan K.
Dsc, ST7:July 73:1667:9826, of "Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary", ST9:Sept 72: 1913:9182

Sarkar, S. N.
Dsc, HY10:Oct 72:1872:9222, of "Bed Load Transportation in Alluvial Channels", HY5:May 71: 653:8091
Dsc, HY9:Sept 73:1645:9961, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295

Sarkaria, Gurmukh S.
Designs Tailored To Accelerate Concrete Dam Construction, RCCD:70:161
Influence of Rapid Construction On Concrete Dam Costs, RCCD:70:39
Safety Appraisal of Old Dams: An Updated Perspective, IMROD:Sept 73:405
Stress Studies of Three Old Arch Dams, IMROD: Sept 73:418
See Archie A. Stone, PO2:Oct 67:37:5503

Sarkisian, A. S.
See V. I. Klimok, ISSF:Aug 72:261

Sarlin, William O.
See Orville T. Magoon, 12CEC:71:2251

Sarma, B. S.P.
See Ramachandra A. Rao, HY7:July 72:1205:9024

Sarma, K. V.N.
See Muthusamy Krishnamurthy, HY12:Dec 70:2658: 7711

Sarpkaya, Turgut
Dsc, HY2:Feb 70:589:7045, of "Crest Losses for Two-Way Drop Inlet", HY3:May 69:919:6570

Sarrazin, Mauricio A.
Dynamic Soil-Structure Interaction, ST7:July 72: 1525:9026
  Dsc: Emilio Rosenblueth, ST3:Mar 73:590:9583
  Clo: ST9:Sept 73:1955:9964
  TR:139:92

Sasaki, Tamio
See Kiyoshi Horikawa, CE13:72:I-635

Sasser, James H.
Lunar Landing Site Assessment, ESE:Apr 70:109

Sastry, G.
Prediction of Irrigation Advance Function by Dimensional Analysis, with S. C. Agarwal, IR2: June 72:247:8939
  Dsc: Pratap Singh and H. S. Chauhan, IR2:June 73:186:9761
  TR:139:44

Satija, Kanwar S.
Dsc, HY8:Aug 72:1456:9076, of "Mechanics of Sheet Flow Under Simulated Rainfall", HY9:Sept 71: 1367:8373

Sato, James F.
Dsc, CE:Sept 72:57, on Brittle Fracture of Steel Pipe Analyzed, CE:July 72:70

Sato, Michio
See Toshio Iwasaki, CE13:72:I-605

Sato, Shoji
Variation of Topography of Sea-bed Caused by the Construction of Breakwaters, with Isao Irie, 12CEC:71:1301

Satyanarayana, B.
Dsc, SM2:Mar 68:587:5827, of "Stability Analysis of Embankments", SM4:July 67:33:5305
Dsc, SM1:Jan 69:424:6324, of "The Behavior of Foundations During Construction", SM1:Jan 68:93: 5740
Dsc, SM1:Jan 69:434:6324, of "Buckling of Partially Embedded Piles in Sand", SM1:Jan 68:255:5754
Dsc, SM3:May 69:926:6525, of "Air Permeability of Compacted Cohesive Soils", SM4:July 68:981:6040

Sauer, Stanley P.
Streamflow Depletion Resulting from Upstream Surface-Water Impoundment, IR73:Aug 73:593

Sauer, Vernon B.
Unit-Response Method of Open-Channel Flow Routing, HY1:Jan 73:179:9499
  Dsc: James P. Bennett, HY1:Jan 74:240:10251; Hartmut Wittenberg, HY1:Jan 74:242:10251; Ferenc M.J. Ribeny, HY4:Apr 74:612:10441
  Clo: HY11:Nov 74:1721:10898
  TR:139:192

Sauer, Victor
California County Considers Esthetics, CE:Nov 73:70
  TR:139:511

Saul, William E.
Static and Dynamic Analysis of Pile Foundations, ST5:May 68:1077:5936
  Dsc: V. N. S. Murthy and S. P. Shrivastava, ST2: Feb 69:288:6373; Michael W. O'Neill, ST2:Feb 69:289:6373; Shamsher Prakash and V. Chandrasekaran, ST4:Apr 69:762:6486
  Clo: ST11:Nov 69:2511:6867
  TR:135:571

Saulmon, Robert W.
Need for Envelope Material Above Draintile, TN: IR4:Dec 71:661:8560

Saunders, F. Michael
Dsc, EE4:Aug 74:1046:10693, of "Response of Completely Mixed Systems to Hydraulic Shock Loads", EE5:Oct 73:593:10103
Dsc, EE6:Dec 74:1289:10971, of "Design and Operation Model of Activated Sludge", EE6:Dec 73:773:10220

Saunders, Gerald R.
See Karl B. Borgin, ST7:July 68:1681:6020

Saurin, Brendan F.
Design Criteria for Fenders and Berthing Structures, BMS:71:256
  Dsc: Andre Pierre X. Pages, BMS:71:264; Brendan F. Saurin, BMS:71:265; T. K. Hsiegh, BMS:71:265; J. D. Rendle, BMS:71:266

Full Scale Observations on Berthing Impacts: Their Interpretation, BMS:71:198
Dsc: J. Gervasio A. F. Leite, BMS:71:206; P. Tryde, BMS:71:206
The Mechanics of Impact and Evaluation of the Hydrodynamic Mass, BMS:71:192
Dsc, BMS:71:265, of "Design Criteria for Fenders and Berthing Structures", BMS:71:256

Savage, S. B.
See O. Hawaleshka, 12CEC:71:461

Savage, Stuart B.
See Rodney J. Sobey, HY12:Dec 74:1809:11026

Savaria, Wayne M.
Dsc, CE:Aug 74:24, on After Agnew: What's Happening In The Profession, CE:Mar 74:52

Sawko, F.
See A. Fricker, ST7:July 73:1654:9826

Sawyer, Herbert A.
Economic Basis for Seismic Resistance, TB:73:Ib-6-319
Non-Linear Analysis and Limit Design, Summary Report, TB:73:III-22-483
Dsc, ST2:Feb 71:722:7867, of "Moment Redistribution in Precast Concrete Frame", ST3:Mar 70:637:7168

Sax, Robert I.
Weather Modification: Report Card, CE:Jan 73:53
TR:139:2

Saxe, Harry C.
See Cary K.K. Mak, CEO-II:70:535

Saxena, Surendra K.
Geotechnical Properties of Hudson River Silts, with Timothy P. Smirnoff, TN: SM10:Oct 73:912:10042

Saxton, Keith E.
Hydrology and Erosion of Loessial Watersheds, with Ralph G. Spomer and Larry A. Kramer, HY11:Nov 71:1835:8523
TR:137:1040
Hydrology and Erosion of Loessial Watersheds, with Ralph G. Spomer and Larry A. Kramer, IAWM:72:165

Sayegh, Antone F.
Analysis of Laminated Curved Beams, with Stanley B. Dong, EM4:Aug 70:471:7495
TR:136:1034
Elastic Analysis With Indeterminate Boundary Conditions, EM1:Feb 74:49:10357
Elastic-Plastic Analysis by Quadratic Programming, with Moshe F. Rubinstein, EM6:Dec 72:1547:9435
Dsc: Oscar G. De Pineres, EM6:Dec 73:1304:10181; Osvaldo De Donato and Alberto Franchi, EM1:Feb 74:126:10303; Vijay K. Garg and Subhash C. Anand, EM1:Feb 74:128:10303; Ted B. Belytschko, EM1:Feb 74:130:10303
TR:139:159

Saylor, James H.
Properties of Longshore Bars in the Great Lakes, with Edward B. Hands, 12CEC:71:839

Sayre, William W.
Dispersion of Silt Particles in Open Channel Flow, HY3:May 69:1009:6579
Dsc: Tsung Yang, HY6:Nov 69:2206:6866; Warren M. Hagist and Lewis L. Huff, HY1:Jan 70:299:6988
Clo: HY8:Aug 70:1722:7439
TR:135:1027
See Harvey E. Jobson, HY3:Mar 70:703:7148
See Harvey E. Jobson, HY10:Oct 70:1983:7618
See Chih Ted Yang, HY2:Feb 71:265:7892
See Chih Ted Yang, HY7:July 71:907:8228
See V.S. Shastri Annambhotla, WW4:Nov 72:489:9358

Scalf, Marion R.
Phosphate Removal at Baltimore, Maryland, with Fred M. Pfeffer, Lawrence D. Lively, Jack L. Witherow and Charles P. Priesing, SA5:Oct 69:817:6817
Dsc: Carl Beer, SA2:Apr 70:648:7190
Clo: SA6:Dec 70:1441:7713
TR:136:103

Scalmanini, Joseph C.
See Verne H. Scott, HYB:Aug 73:409

Scalzi, John B.
Cable-Suspended Roof Construction State-of-the-Art, Subcommittee on Cable-Suspended Roof Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, ST6:June 71:1715:8190
Dsc: William C. Knudson, ST1:Jan 72:384:8623; Jens Jacob Jensen, ST2:Feb 72:530:8684
Clo: ST10:Oct 72:2315:9227
TR:137:973
Can Decision-Making Be Taught?, CE:July 70:37
TR:136:501
Mechanical Properties of Structural Cables, with William K. McGrath, ST12:Dec 71:2837:8604
Dsc: Blair Birdsall, ST8:Aug 72:1883:9079
Clo: ST4:Apr 73:790:9640
TR:138:52
Plate Wall Cladding, State-of-Art Report 3B, with Arthur P. Arndt, TB:73:II-17-653
Dsc, ST4:Apr 74:824:10442, of "How Safe are Your Poles?", ST7:July 73:1333:9848

Scanlan, Robert H.
Airfoil and Bridge Deck Flutter Derivatives, with John J. Tomko, EM6:Dec 71:1717:8609
TR:137:963
Dynamic Prediction of Pile Static Bearing Capacity, with John J. Tomko, SM2:Mar 69:583:6468
Dsc: Ibrahim H. Sulaiman, Teddy J. Hirsch and Harry M. Coyle, SM1:Jan 70:353:6989; Paul F. Keim, SM1:Jan 70:355:6989
Clo: SM5:Sept 70:1801:7499
TR:136:677
Earthquake Time Histories and Response Spectra, with Klaus Sachs, EM4:Aug 74:635:10703
Indicial Aerodynamic Functions for Bridge Decks, with Jean-Guy Beliveau and Kathleen S. Budlong, EM4:Aug 74:657:10709
Dsc, ST10:Oct 69:2325:6803, of "Field Observation of Tagus River Suspension Bridge", ST4:Apr 69:555:6492
Dsc, EM3:June 72:752:8924, of "Aeroelastic Stability of Unstiffened Suspension Bridges", EM6:Dec 71:1677:8615
See Ali Sabzevari, EM2:Apr 68:489:5889
See Ali Sabzevari, ST7:July 69:1517:6684

Scanlan, Robert N.
Dsc, EI3:July 74:264:10633, of "Art in Engineering - The Need for a New Criticism", PP4:Oct 73:499:10102

Scanlon, Andrew
Time-Dependent Reinforced Concrete Slab Deflections, with David W. Murray, ST9:Sept 74:1911:10833

Scarato, Russell F.
See Thomas M. Rachford, SA6:Dec 69:1063:6957

Scarpa, Amerigo
See Marvin Gates, CE:Jan 69:61
See Marvin Gates, CO1:July 69:65:6681
See Marvin Gates, CO1:Mar 72:79:8778
See Marvin Gates, CO4:Dec 74:521:10984

Schaake, John C., Jr.
Experimental Examination of the Rational Method, with John C. Geyer and John W. Knapp, HY6:Nov 67:353:5607
  Dsc: Stanley S. Butler, HY6:Nov 68:1583:6200; Chester C. Kisiel, HY6:Nov 68:1586:6200; Loyal W. Murphy, III, HY6:Nov 68:1589:6200; John G. Merkle, HY1:Jan 69:463:6323
  Clo: HY5:Sept 69:1715:6784
  TR:135:458
Role and Function of Systems Analysis, UWRM:71:72
Dsc, with Guillermo Vicens, Eric Wood, Roberto Lenton and Alonso Rhenals, IR3:Sept 73:409:9962, of "Drought Severity and Water Supply Dependability", IR3:Sept 72:433:9219
See Armando I. Perez, HY1:Jan 70:131:7026
See George R. Grantham, SA5:Oct 71:569:8429
See Richard de Neufville, SA6:Dec 71:825:8575

Schad, Ted
See Charles F. Luce, CE:May 73:70

Schaezler, Donald J.
See Robert L. Irvine, SA4:Aug 71:409:8323

Scharpf, Dieter W.
See John H. Argyris, ST3:Mar 72:633:8788

Schattenberg, John W.
See Ralph F. Reuss, PES:72:I-627

Schaub, James H.
Civil Engineering Faculty Profile (Discussion), with D. A. Eckler, CEE:Feb 74:2-298
Professional Schools for Civil Engineering Education, CEE:Feb 74:1-735
See Lyle K. Moulton, TE4:Nov 69:587:6871
See Lyle K. Moulton, TE4:Nov 69:605:6872
See Grover L. Rogers, CEE:Feb 74:1-752
See William W. Moore, CEE:Feb 74:1-905

Schechter, Kenneth M.
See Jay W. Wiley, Jr., EPCE:Aug 74:13

Scheele, Paul W.
Emerging Trends in Construction Education - Summary Statement and Overview, CEE:Feb 74:2-104

Scheffey, Charles F.
An Analysis of the Pt. Pleasant Bridge Investigation, STF:73:77
Point Pleasant Bridge Collapse-Conclusions of the Federal Study, CE:July 71:41
  Dsc: William F. Hoey, CE:Jan 72:62
  TR:137:451
See Raymond Eugene Davis, ST1:Jan 72:165:8631

Scheibner, B. J.
See E. H. Skinner, RM14:73:754

Scheinbart, Irving
Commentary, CEWAU:74:221

Schellens, Dieter F.
New Zeiss Electro-Optical Instrumentation, SU2:Sept 70:173:7526
  TR:136:905

Schelling, David R.
Errors in Step Wise Solutions to Bridge Vibrations, ST10:Oct 70:2045:7600
  Errata: ST9:Sept 71:2426:8348
  TR:136:1192

Scherman, Karl Arthur
Supervision of Dams at the Swedish State Power Board, with S. Nylander, IMROD:Sept 73:157

Scherz, James P.
Monitoring Water Pollution by Remote Sensing, SU2:Nov 71:307:8550
  TR:137:953
See Ralph W. Kiefer, SU1:Apr 70:57:7225
See Ralph W. Kiefer, SU2:Nov 71:321:8545

Scheyhing, Ernest R.
See Joel I. Abrams, EM6:Dec 70:847:7758

Schiebe, Frank R.
Dsc, HY5:May 70:1222:7248, of "Pressure Fluctuations on Submerged Sluice Gate", HY4:Nov 69:1781:6875
See Heinz Stefan, SA6:Dec 70:1415:7762

Schiedel, Ekkehard
Dsc, EM6:Dec 69:1446:6929, of " Over-All and Local Buckling of Channel Columns", EM2:Apr 69:447:6513

Schier, O. B., II
Former ASME head dies, CE:Aug 72:96

Schieve, James F.
Involvement of Practitioners in Education for the Practice of Medicine, CEE:Feb 74:2-218

Schiff, Anshel J.
Earthquake Effects on Electric Power Systems, PO2:Nov 73:317:10134
  TR:139:393

Schiffman, Robert L.
An Analysis of Consolidation Theories, with Albert T-F Chen and Jane C. Jordan, SM1:Jan 69:285:6370
  Dsc: Carlo Viggiani, SM1:Jan 70:331:6989; Edward H. Davis and Harry G. Poulos, SM1:Jan 70:334:6989
  Errata: SM5:Sept 70:1793:7499
  TR:136:650
Computer Use in Civil Engineering, with E. Rex Krueger, PP2:Apr 72:251:8834
  TR:138:299
Interactive Graphics: Settlement and Slope Stability, with Jack R. Stein, ST1:Jan 71:253:7832
  TR:137:851
Interactive Graphics: Settlement & Slope Stability, with Jack R. Stein, EC5:70:407
One-Dimensional Consolidation Of Layered Systems, with Jack R. Stein, TN: SM4:July 70:1499:7387
Settlement Problem Oriented Computer Language, with Robert V. Whitman and Jane C. Jordan, SM2:Mar 70:649:7178
  Dsc: Jean-Pierre Giroud, SM6:Nov 70:2160:7643
  Clo: SM7:July 71:1029:8224
  TR:137:16
Dsc, SM3:Mar 71:595:7943, of "Plane Strain Consolidation by Finite Elements", SM4:July 70:1435:7437

Schild, Neil W.
Irrigation Management - A Tool for Agribusiness, with Harvey R. Nelson, Jr., IR3:Sept 72:347:9211
  TR:138:486

Schiller, Eric J.
Backwater Effect of Submerged Sills, TN: SM11:Nov 72:2059:9311

Schiller, R. E., Jr.
Dsc, HY5:Sept 69:1750:6784, of "Design of Stable Channels in Alluvial Materials", HY2:Nov 68:1399:6217

Schilling, Adolf A.
River Diversion for Boundary Dam, PO3:June 70:319:7339
  Dsc: Frederic L. Lawton, PO1:Jan 71:259:7784
  Clo: PO3:July 71:719:8256
  TR:136:1027

Schilling, Charles G.
Commentary on Orthotropic-Deck Bridge Specifications by the Task Committee on Orthotropic Plate Bridges of the Committee on Metals of the Structural Division, ST1:Jan 74:109: 10273
Dsc: Roman Wolchuk and Ronald M. Mayrbaurl, ST12:Dec 74:2525:10977
Design of Hybrid Steel Beams, Report of Subcommittee 1 on Hybrid Beams and Girders, Joint ASCE-AAHSO Committee on Flexural Members, ST6:June 68:1397:5995
Dsc: William G. Byers, ST6:June 68:1397:5995
Clo: ST1:Jan 70:128:6990
TR:135:591
Optimum Proportions for I-Shaped Beams, ST12:Dec 74:2385:11007

Schimpeler, Charles C.
See Thomas J. Hillegass, UP1:Mar 70:17:7126

Schindler, Richard
Dsc, CE:Aug 71:38, on Engineer Firms Face Unionization, CE:Apr 71:49
Dsc, EI3:July 74:260:10633, of "Salary Guidelines: Enlightened Implementation or Unionization?", PP4:Oct 73:429:10090

Schlaich, Jorg
See Fritz Leonhardt, CE:July 72:41

Schlemmer, Frederick Charles
Memoir of, TR:136:1365

Schleusener, Richard A.
New Water for Northern Plains, IR1:Mar 70:53:7145
TR:136:559
A Perspective on Weather Control, IR1:Mar 68:73: 5845
Dsc: Wayne L. Decker, IR1:Mar 69:239:6428
Clo: IR4:Dec 69:590:6930
TR:135:454
Weather Modification for Use in High Plains, with J. R. Miller, Jr., IR3:Sept 74:339:10816
Weather Modification for Use in the High Plains, with J. R. Miller, Jr., IR73:Aug 73:147
Weather Modification Program for South Dakota, with Edwin I. Boyd, HY9:Sept 72:1515:9187
Errata: HY7:July 73:1187:9823
TR:139:91
Weather Modification Regulation, IR3:Sept 70:281: 7537
TR:136:1139
See Merlin C. Williams, IR1:Mar 70:61:7171

Schlickenrieder, Warren
See Russell C. Mt. Pleasant, SA5:Oct 71:709:8469

Schlimm, Gerard H.
Dsc, CE:Jan 70:79, on Critical Need for Civil Engineering Technicians, CE:Aug 69:61

Schlosser, Francois
Recent Results in French Research on Reinforced Earth, with Nguyen-Thanh-Long, CO3:Sept 74:223: 10800

Schmertmann, John H.
Dewatering Case History in Florida, CO3:Sept 74: 377:10803
Dsc, SM1:Jan 70:363:6989, of "Sand Densification by Heavy Vibratory Compactor", SM4:July 69:985: 6656
Dsc, SM4:July 70:1483:7385, of "Tests on Instrumented Piles, Ogeechee River Site", SM2: Mar 70:561:7170
Dsc, PISST:71:389, of "Sand Densification by Heavy Vibratory Compactor", PISST:71:379
Dsc, 4PCSM:72:III90, of "The Standard Penetration Test", 4PCSM:71:I1
Dsc, SM4:Apr 72:430:8801, of "Simplified Procedure for Evaluating Soil Liquefaction Potential", SM9: Sept 71:1249:8371
Dsc, SM6:June 73:477:9762, of "Subsurface Investigation for Design and Construction of Buildings: Part II", SM6:June 72:557:8944

Schmid, Erwin
Inversion of Mercator Coordinates, TN: SU2:Nov 72: 243:9385

Schmid, Werner E.
The Penetration of Objects Into The Ocean Bottom, CEO-II:70:167
See Rowland Richards, Jr., SM1:Jan 68:205:5749
See Cetin Soydemir, SM6:Nov 70:2081:7708

Schmidgall, Tasso
Spillway Gate Vibration on Arkansas River Dams, HY1:Jan 72:219:8676
Dsc: G. Padmanabhan, HY12:Dec 72:2243:9391
Clo: HY6:June 73:988:9760
TR:139:24

Schmidt, Birger
Exploration for Soft Ground Tunnels — A New Approaach, EFSE:Aug 74:84
Dsc, SM5:Sept 70:1841:7499, of "State of Predictive Art in Subsidence Engineering", SM2:Mar 70:721: 7187
Dsc, SM8:Aug 73:640:9892, of "Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle", SM1:Jan 73:111:9511
Dsc, EFSE:Aug 74:369, of "Benefits of Tunnel Measurements", EFSE:Aug 74:366

Schmidt, J. W.
See Wilbur E. Wilhelm, Jr., TE4:Nov 73:923:10165

Schmidt, James D.
Consolidation of Porous Media with Non-Darcy Flow, with Russell A. Westmann, EM6:Dec 73: 1201:10211
TR:139:517

Schmidt, John O.
Master Sewerage System for Metropolitan Manila, SA1:Feb 72:125:8712
Dsc: Kazuyoshi Kawata, SA6:Dec 72:1047:9393
Errata: SA4:Aug 72:682:9077
Clo: EE3:June 73:377:9758
TR:139:99

Schmidt, Lewis C.
See William R. Flower, ST12:Dec 71:2777:8569
See Geoffrey D. Base, ST12:Dec 71:2920:8557
See Geoffrey D. Base, ST10:Oct 73:2123:10055

Schmidt, Norbert O.
Dsc, CE:Nov 72:56, on A Possible 1-Point System Method For Laboratory Compaction Testing, CE: Mar 72:78
See A. David Alcott, SM5:May 71:803:8083

Schmidt, Phillip M.
Book Review: Proceedings Of The ASCE Specialty Conference On Safety And Reliability Of Metal Structures, CE:June 73:32

Schmidt, Richard T.
Dsc, UP2:Sept 73:261:9966, of "Wisconsin's Shoreland Management Program", UP1:July 72:45: 9054

Schmidt, Robert
Dsc, EM4:Aug 69:1016:6705, of "A Numerical Technique for Elastica Problems", EM5:Oct 68: 1159:6182
Dsc, EM6:Dec 69:1439:6929, of "On the Accuracy of Timoshenko's Beam Theory", EM6:Dec 68:1447: 6285
Dsc, EM3:June 70:373:7309, of "Axisymmetric Finite Deflection of Circular Plates", EM5:Oct 69: 1125:6832
Dsc, EM1:Feb 71:132:7862, of "Bending of Clamped Orthotropic Sandwich Plates", EM3:June 70:243: 7340

Dsc, with Donald A. DaDeppo, ST1:Jan 72:373: 8623, of "In-Plane Bending and Buckling of Arches", ST5:May 71:1575:8130
Dsc, with Donald A. DaDeppo, EM5:Oct 74:1060: 10837, of "Analysis and Stability of Floating Roofs", EM5:Oct 73:1037:10101
See Donald A. DaDeppo, EM1:Feb 69:296:6371
See Donald A. DaDeppo, EM1:Feb 72:273:8680

Schmit, Lucien A., Jr.
See Robert H. Mallett, ST3:June 67:221:5285
See Behrooz Farshi, ST1:Jan 74:97:10259

Schnabel, Harry, Jr.
Sloped Sheeting, CE:Feb 71:48
Dsc: Robert E. White, CE:Jan 72:48
TR:137:116
See K. R. Chapman, PES:73:III-271

Schnabel, James J.
Foundation Construction on Compacted Structural Fill in the Washington, D.C. Area, PES:72:I-1019
Dsc, SM5:Sept 70:1835:7499, of "Tie-Backs in Clay to Support Sheeted Excavation", SM2:Mar 70:495: 7163
Dsc, 4PCSM:72:III89, of "The Standard Penetration Test", 4PCSM:71:I1

Schneider, Arland D.
See Vladimir S. Aronovici, IR1:Mar 72:65:8760

Schneider, Jerry B.
Computer-Aided Design of Urban Transit Systems, with Claus D. Gehner, Dennis Porter and James Clark, TE4:Nov 74:943:10936

Schneider, Jerry P.
See Alan F. Babb, HY7:July 73:1097:9859

Schneider, Verne R.
Dsc, with Lee A. Druffel, HY5:May 74:705:10505, of "Computing Backwater at Open Channel Constrictions", HY7:July 73:1043:9841
See Hsieh W. Shen, HY6:Nov 69:1919:6891

Schnelle, Karl B., Jr.
See Edward L. Thackston, SA2:Apr 70:319:7218
See Frederick A. Brunner, EE2:Apr 74:311:10447

Schnepper, Donald H.
See Thomas A. Butts, SA2:Apr 70:477:7235

Schnitter, Gerold
See Herbert H. Einstein, SM6:Nov 70:2007:7684

Schnobrich, William C.
Analysis of Hipped Roof Hyperbolic Paraboloid Structures, ST7:July 72:1575:9052
Dsc: Milo S. Ketchum, ST4:Apr 73:796:9640
Clo: ST4:Feb 74:467:10306
TR:139:98
Dsc, with David A. Pecknold and Chang-Koon Choi, ST8:Aug 72:1885:9079, of "Finite Difference Approach to Hyperbolic Paraboloids", ST2:Feb 72: 429:8730
Dsc, with Mohammad H. Salem, David A. Pecknold and Bijan Mohraz, ST10:Oct 72:2327:9227, of "Nonlinear Stress Analysis of Reinforced Concrete", ST4:Apr 72:885:8845
See David A. Pecknold, ST4:Apr 69:715:6523
See Robert L. Carter, EM5:Oct 69:1033:6808
See Nabil A. Shoeb, EM1:Feb 72:47:8717
See Peter C. Kohnke, ST7:July 72:1493:9033
See Frank R. Hand, ST7:July 73:1491:9860
See Mubadda T. Suidan, ST10:Oct 73:2109:10081

Schnoor, Jerald L.
See Michael J. Humenick, Jr., EE6:Dec 74:1249: 11032

Schock, Martin R.
Modification of Convective Clouds in Northern Plains, with Arnett S. Dennis, OIDS:72:373

Schoenberg, Michael
Large Deflections of Viscoelastic Rings, EM1:Feb 69: 223:6410
TR:136:684

Schoenberger, Robert J.
Incinerator-Residue-Fill Site Investigation, with A. Alexander Fungaroli, SM10:Oct 71:1431:8451
Dsc: Melvin W. Jackson, SM3:Mar 72:309:8751
TR:138:65
Residue Characterizations, with Paul W. Purdom, SA3:June 69:387:6590
TR:136:735

Schoenfeld, William M.
Proposed Tracked Air Cushion Vehicle System for Los Angeles International Airport, NA:Mar 71:115

Schofer, Joseph L.
Analyzing Urban Transporatation Innovations, UTI: 71:187
Evaluating Regional Plans and Community Impacts, with Darwin G. Stuart, UP1:Mar 74:93:10412
See Martin Wachs, UP2:Oct 70:147:7639
See Martin Wachs, TE2:May 72:351:8888
See Gorman Gilbert, TE3:Aug 72:691:9112
See G. Scott Rutherford, UP2:Sept 73:157:9985
See Kenneth E. Nelson, TE2:May 74:325:10517

Schofield, R. Bryan
Speed of Ships in Restricted Navigation Channels, WW2:May 74:133:10539

Schofield, William R.
Deterministic Model of Dynamic Eutrophic Estuary, with Richard G. Krutchkoff, EE4:Aug 74:979: 10735
Stochastic Model of BOD and OD in Segmented Estuary, with Richard G. Krutchkoff, SA5:Oct 72: 745:9296
TR:138:488
Stochastic Model of Dynamic Eutrophic Estuary, with Richard G. Krutchkoff, EE3:June 74:613: 10578

Scholar, Charles F.
See John F. McLaughlin, CE:Aug 69:42

Scholl, Roger E.
Dynamic Anlaysis Of Three-Dimensional Frames, TN: ST1:Jan 72:401:8619

Schoof, Russell R.
Dsc, with Frank R. Crow, HY6:Nov 68:1596:6200, of "Are Individual Current-Meter Ratings Necessary", HY2:Mar 68:391:5848

Schooler, Kermit K.
Residential Environment and Adjustment: The Special Case of the Elderly, ABS:71:43

Schoon, John G.
New Concepts in Urban Parking, with Herbert S. Levinson, TE3:Aug 74:611:10731

Schoop, E. Jack
San Francisco Bay Balancing of Development and Conservation Proposed, CE:May 69:54
TR:135:268
San Francisco BCDC Revisited, CE:Apr 73:71
TR:139:131

Schoppmann, Bernd
See Emil Mosonyi, HY6:Nov 68:1564:6200

Schorn, Gerald
Adaptive Control of Design Codes, with Niels C. Lind, EM1:Feb 74:1:10332

Schoustra, Jack J.
Los Angeles Hillside Developments Put To Test by Recent Rains, with T. D. Lake, CE:Nov 69:39
Dsc: Richard L. Handy, CE:June 70:62
TR:135:220

Superior Pension Plan Helps Attract Employees, with Richard S. Summerhays, CE:Jan 73:58
Dsc: John H. Meursinge, CE:Apr 73:77
TR:139:7
See Ronald F. Scott, GT4:Apr 74:449:10497

Schrader, Charles R.
Boosting Construction-Worker Productivity, CE:Oct 72:61
TR:138:458
Engineering Education and a Professional Ethic, PP1: Oct 71:147:8460
The Human Ethic, PP1:July 69:73:6700
TR:135:119
Motivation of Construction Craftsmen, CO2:Sept 72: 257:9185
Dsc: John D. Borcherding, CO1:July 73:219:9822
TR:139:245
Optimum Replacement Life Of Large Scrapers, CO1: Mar 71:37:8000
Dsc: Douglas M. Mattick, CO2:Nov 71:343:8482
Clo: CO2:Sept 72:356:9155
TR:137:924
Professional Education: The Need for Creativity, PP1:Jan 72:85:8654
Dsc: Richard H. Clough, PP1:Jan 72:93:8621
TR:138:80
Professionalization—and a Relevant Code of Ethics, EI4:Oct 74:337:10888

Schramm, Arthur Felix
Memoir of, TR:135:1144

Schrecongost, R. W.
See George K. Young, Jr., SA5:Oct 68:829:6147

Schreiber, David L.
Intake System Assessment for Central Columbia River, with C. Dale Becker, James J. Fuquay and Ronald A. Chitwood, PO2:Dec 74:139:11001
Obtaining Overland Flow Resistance by Optimization, with Donald L. Bender, HY3:Mar 72:429:8773
Dsc: Donald E. Overton, HY1:Jan 73:273:9459; Omkar N. Wakhlu, HY1:Jan 73:274:9459
Clo: HY9:Sept 73:1625:9961
TR:139:34

Schreiner, Robert N.
See Frank W. Galbraith, EM5:Oct 68:1015:6140

Schreyer, Howard L.
Lower Bounds to Column Buckling Loads, with Pen-Yuan Shih, EM5:Oct 73:1011:10064
Dsc: Krishnaiyengar Rajagopalan, EM5:Oct 74: 1053:10837
TR:139:463

Schriever, William R.
Dsc, ST2:Feb 72:509:8684, of "Structural Response to Sonic Booms", ST4:Apr 71:1157:8063
See David E. Allen, STF:73:21

Schrodt, J. Thomas
See Robert B. Grieves, SA3:June 69:515:6610

Schroeder, Edward D.
Validity of Energy Change as a Growth Parameter, with Arthur W. Busch, SA2:Apr 68:193:5881
Dsc: Shankha K. Banerji, SA3:June 69:672:6582
TR:135:511
Dsc, EE1:Feb 73:107:9521, of "Process Kinetics for Denitrification", SA4:Aug 72:623:9153

Schroeder, John
Yield Points For Partially Loaded Spherical Domes, with Prasanta Roy, EM1:Feb 71:63:7888
TR:137:875
See Archibald N. Sherbourne, EM3:June 68:823:6004
See Kenneth W. Neale, EM1:Feb 74:63:10345

Schroeder, Warren L.
A Preload of Silty Fine Sand, with Edward G. Worth, PES:72:I-379
Dsc, SM3:May 70:1071:7249, of "Behavior of Dry Sands under Cyclic Loading", SM4:July 69:1097: 6698

Schrotke, P. M.
See D. E. Peterson, PO1:May 73:193:9736

Schuchardt, Leon J.
Automatic Drafting System Aids Wisconsin Bridge Design, CE:Feb 70:38
TR:136:164

Schueller, G. I.
A Probabilistic Approach to Determine Wave Forces on Ocean Pile Structures, with Haresh C. Shah, CE13:72:III-1683

Schujman, Jaime
See Nestor Distefano, EM5:Oct 71:1349:8424

Schuldiner, Paul W.
Dsc, Special issue on Urban Development, CE:Jan 70:73
Dsc, CE:Jan 70:73, on A Black Civil Engineer Looks at His Profession, CE:Sept 69:93

Schultz, Donald M.
See Robert W. Gerstner, ST12:Dec 71:2924:8557

Schumacher, Robert
The Modern Way to Operate Suburban Rail Service, TE4:Nov 70:615:7707
TR:137:867

Schumacher, Sheldon
See David A. Novick, PP1:Jan 73:9:9489

Schumm, Stanley A.
River Metamorphosis, HY1:Jan 69:255:6352
Dsc: Robert L. McFall, HY6:Nov 69:2190:6866; Shrikrishna V. Chitale, HY2:Feb 70:586:7045
Clo: HY8:Aug 70:1715:7439
TR:136:38

Schupack, Morris
See Allan H. Wern, PO2:Mar 71:539:7992

Schuster, Ernst
See Herbert Breth, SM8:Aug 73:617:9919

Schuster, Jack C.
Radioisotopes and Turbine Flow Measurement, with Robert L. Hansen, PO1:June 72:1:8959
TR:138:61

Schwab, Glenn O.
Effect of Openings on Design of Subsurface Drains, with Darrell W. DeBoer and Howard P. Johnson, IR1:Mar 69:199:6480
Dsc: Andre Van der Beken, IR1:Mar 70:97:7114
Clo: IR4:Dec 70:491:7712
TR:136:41
See Om P. Gulati, IR4:Dec 70:437:7751

Schwaighofer, Joseph
Dsc, ST10:Oct 68:2502:6135, of "Analysis of Pierced Shear Walls", ST1:Jan 68:71:5710
Dsc, ST8:Aug 70:1810:7442, of "Analysis of Shear Walls with Openings", ST10:Oct 69:2093:6824

Schwantes, E. Douglas, Jr.
See Arthur Casagrande, PES:72:I-551

Schwar, Johannes Friedrich
Memoir of, TR:135:1145

Schwartz, H. Ivan
Hydraulic Trenching of Submarine Pipeline, TN: TE4:Nov 71:723:8489
Dsc, HY3:Mar 72:569:8749, of "Eddy Formation Behind Circular Cylinders", HY6:June 71:763:8170

Schwartz, Henry J.
Memoir of, TR:139:575

Schwartz, M. L.
Nearshore Currents Southeastern Strait of Georgia, with R. C. Fackler, E. A. Hoerauf, C. E. Larsen, K. L. Lingbloom and M. A. Short, CE13:72:III-2503

Schwartz, Murray A.
See Seymour A. Bortz, EM2:Apr 73:249:9648

Schwartz, Paul H.
See William D. Ashton, GT7:July 74:787:10667

Schwarz, Joachim
The Pressure of Floating Ice-fields on Piles, 12CEC: 71:1523

Schweig, Ze'ev
See Nathan Buras, HY5:Sept 69:1615:6779

Sciandrone, Joseph C.
Environmental Protection Measures at Martis Creek Lake, California, CE:Mar 74:80

Scolaro, Hugo
See Carlos A. Micucci, 4PCSM:71:II309

Scordelis, Alexander C.
Analytical Study of Tubular Tee-Joints, with Jack G. Bouwkamp, ST1:Jan 70:65:7016
  TR:136:532
Structural Response of Concrete Box Girder Bridge, with Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069
  Dsc: Sanivarapu V. Narasimham and Karl Van Dalen, ST8:Aug 74:1737:10697; James R. Libby, ST9:Sept 74:1962:10772
  TR:139:480
Dsc, with Kaspar J. William, ST7:July 70:1622:7386, of "Folded Plate Structures by Finite Strip Method", ST12:Dec 69:2963:6985
Dsc, with Christian Meyer, ST8:Aug 72:1878:9079, of "Analysis of Horizontally Curved Box Girder Bridges", ST10:Oct 71:2481:8453
See Kam-Shing Lo, ST5:May 69:831:6544
See Christian Meyer, ST10:Oct 71:2459:8434
See Kaspar J. William, ST7:July 72:1377:9013
See Jack G. Bouwkamp, ST1:Jan 74:31:10293

Scott, David
Scheduling Game for Construction Industry Training, with Graham Cullingford, CO1:July 73:81:9832
  Dsc: Harry D. Lovering, CO1:Mar 74:102:10377
  Clo: CO3:Sept 74:491:10768
  TR:139:342
See Graham Cullingford, CO1:June 70:85:7308

Scott, Donald F.
Effective Contract Administration in Construction Management, CO2:June 74:117:10599

Scott, Harold A.
Design Versus Ecology in St. Johns and Indian Rivers, WW4:Nov 72:425:9314
  TR:138:475

Scott, John R.
See Patrick T. Lording, WW2:May 71:341:8138

Scott, Norman L.
At Hydro Plant, Value Engineering Saves $600,000, with C. T. McCreedy, CE:Mar 73:72
  TR:139:137
Project Planning and Control by Time-Sharing Computer, with Edward L. Murphree, CO1:Mar 72: 37:8758
  TR:138:184

Scott, Richard G.
See Verne E. Smith, HY12:Dec 73:2293:10245

Scott, Robert A.
Dsc, SM1:Jan 69:417:6324, of "Rock Fracture Spacings, Openings, and Porosities", SM1:Jan 68: 73:5736

Scott, Ronald F.
In-Place Ocean Soil Strength By Accelerometer, SM1:Jan 70:199:7013
  TR:136:768
Nuclear Power Plant Siting on Deep Alluvium, with Jack J. Schoustra, GT4:Apr 74:449:10497
See Hon-Yim Ko, SM5:Sept 67:283:5470
See Hon-Yim Ko, SM4:July 68:883:6028
See DeFro Tossey, SA1:Feb 70:75:7106
See Nicholas C. Costes, SM6:Nov 70:2045:7704
See Hon-Yim Ko, SM1:Jan 73:25:9497

Scott, Verne H.
Artificial Recharge in the Urban Environment, with Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409
See Gert Aron, HY5:May 71:705:8145

Screwvala, Farrokh N.
Dsc, EM3:June 69:799:6580, of "Seismic Response of Structure-Foundation Systems", EM6:Dec 68:1295: 6264
Dsc, SM5:May 73:412:9692, of "Soil Resistance Predictions from Pile Dynamics", SM9:Sept 72:917: 9220

Scrivener, J. C.
See J. G. A. Croll, ST3:Mar 69:457:6481
See J. G.A. Croll, ST5:May 69:809:6540
See A. H. Bryant, ST4:Apr 71:611:6496

Scrivner, Frank H.
Some Recent Findings in Flexible Pavement Research, with William M. Moore, HW2:Nov 68: 229:6252
  TR:135:835
See William Ronald Hudson, EC5:70:95
See William Ronald Hudson, ST1:Jan 71:81:7852

Scrivner, Loyd R.
See Merlin D. Copen, PO1:Jan 70:93:7021

Scroggin, Charles R.
See Edward G. Foree, EE5:Oct 73:639:10043

Scudder, Clifford R., Jr.
Commentary, CEWAU:74:263

Scully, Lawrence J.P.
See Paul M. Berthouex, TN: EE6:Dec 74:1303:10978

Seaburg, Paul A.
Minimum Weight Design Of Light Gage Steel Members, with Charles G. Salmon, EC5:70:319
Minimum Weight Design of Light Gage Steel Members, with Charles G. Salmon, ST1:Jan 71:203: 7830
  TR:137:306

Seagraves, James A.
Industrial Waste Charges, EE6:Dec 73:873:10203
  TR:139:488

Seakan, Raymond N.
Bicycle Theft: The Problem and The Prevention, BP73:Dec 73:496

Seals, Roger K.
Bottom Ash: An Engineering Material, with Lyle K. Moulton and Byron E. Ruth, SM4:Apr 72:311:8817
  TR:138:224
See William M. Kirkpatrick, TN: GT2:Feb 74:190: 10310

Seaman, W. K.
Guide Specifications for Chemical Grouts, SM2:Mar 68:345:5830
  Dsc: B. U. Duvall, SM2:Mar 69:640:6429; George W. Whitesides, SM2:Mar 69:641:6429; C. Martin Riedel, SM2:Mar 69:642:6429; James Warner, SM2:Mar 69:648:6429; Edward D. Graf, SM2:Mar 69:653:6429
  Clo: SM6:Nov 69:1529:6894
  TR:135:727

Seay, Robert H.
Dsc, ST9:Sept 71:2448:8348, of "Concrete Column Design by AASHO Specifications", ST4:Apr 71:1187:8070

Sebastian, V. K.
See Kashi T. Sundara Raja Iyengar, TN: EM6:Dec 74:1277:10979

Seed, H. Bolton
Analysis of Sheffield Dam Failure, with Kenneth L. Lee and Izzat M. Idriss, SM6:Nov 69:1453:6906
TR:136:271
Characteristics of Rock Motions During Earthquakes, with Izzat M. Idriss and Fred W. Kiefer, SM5:Sept 69:1199:6783
Dsc: Richard Silvester, HY4:Apr 70:1094:7189
Clo: SM4:July 70:1468:7385
TR:135:1008
Design Of Earth Retaining Structures For Dynamic Loads, with Robert V. Whitman, LS:70:103
Dynamic Characteristics of Soil-Structure Systems, State-of-Art Report 2, TB:73:Ib-6-177
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, SM10:Oct 72:1115:9269
TR:138:490
General Report on Seismic Hazards and Problems, with Julio E. Valera, Rudy J. Dietrich and Walter F. Anton, IMROD:Sept 73:745
Geotechnical Investigations of the Aberfan Disaster (Book Reviews), CE:May 70:94
Influence of Soil Condition on Ground Motion During Earthquakes, with Izzat M. Idriss, SM1:Jan 69:99:6347
TR:135:92
Influence of Soil Conditions on Building Damage Potential During Earthquakes, with Izzat M. Idriss, ST2:Feb 71:639:7909
Dsc: Melvin W. Jackson, ST7:July 71:2033:8225; Ramzi H. Ferahian, ST9:Sept 71:2443:8348
TR:137:881
Seed Wins Terzaghi Award, CE:Mar 73:59
Settlement of Dry Sands During Earthquakes, with Marshall L. Silver, SM4:Apr 72:381:8844
Dsc: Sergey Steuerman, SM12:Dec 72:1422:9394; T. Leslie Youd and Terry N. Craven, SM12:Dec 72:1423:9394
TR:138:264
Simplified Procedure for Evaluating Soil Liquefaction Potential, with Izzat M. Idriss, SM9:Sept 71:1249:8371
Dsc: John H. Schmertmann, SM4:Apr 72:430:8801; Francois A. Tavenas, SM4:Apr 72:433:8801; Elias Zolkov, SM4:Apr 72:436:8801
TR:138:8
Soil Conditions and Building Damage in 1967 Caracas Earthquake, with Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108
Dsc: Frank M. Fuller, SM7:July 73:569:9825
TR:139:118
Test Procedures for Measuring Soil Liquefaction Characteristics, with William H. Peacock, SM8:Aug 71:1099:8330
TR:137:1103
Undrained Strength Characteristics of Cohesionless Soils, with Kenneth L. Lee, SM6:Nov 67:333:5618
Dsc: Branko Ladanyi, SM1:Jan 69:392:6324
Clo: SM5:Sept 69:1266:6754
TR:135:345
See Kenneth L. Lee, SM6:Nov 67:117:5561
See Gerald R. Thiers, SM2:Mar 68:555:5871
See William H. Peacock, SM3:May 68:689:5957
See Izzat M. Idriss, SM4:July 68:1003:6043
See Grant A. Ross, SM4:July 69:1007:6664
See Kenneth L. Lee, SM2:Mar 70:411:7136
See Izzat M. Idriss, SM2:Mar 70:631:7175
See Houshang Dezfulian, SM6:Nov 70:1893:7659
See Houshang Dezfulian, SM1:Jan 71:27:7808
See William D. Kovacs, SM1:Jan 71:59:7813
See William D. Kovacs, SM2:Feb 71:441:7878
See Marshall L. Silver, SM8:Aug 71:1081:8334
See Marshall L. Silver, SM9:Sept 71:1171:8354
See N. Dean Marschi, SM1:Jan 72:95:8672
See Izzat M. Idriss, GT1:Jan 74:1:10284
See Ignacio Arango, GT2:Feb 74:139:10360

Seedlock, Robert F.
Transit System Employs Three Modes, CE:May 72:41
Dsc: Larry Madsen, CE:Aug 72:54
TR:138:226

Seeger, Frederick J.
Cross-Country Pipeline Construction, with John A. Havers, TE4:Nov 70:603:7667
TR:136:1270

Seegmiller, Ben L.
Rock Stability Analysis at Twin Buttes, RM13:72:511

Seeley, Gerald R.
Static Wind Loads on Circular Concave Cable Roofs, with Heinz Stefan and Paul P. Christiano, ST8:Aug 74:1593:10751
See Paul P. Christiano, ST11:Nov 74:2323:10966

Seetharaman, S.
See Ramaswamy Sakthivadivel, HY3:Mar 70:855:7113
See Ramaswamy Sakthivadivel, HY7:July 70:1621:7384
See Ramaswamy Sakthivadivel, HY1:Jan 71:180:7783
See Ramaswamy Sakthivadivel, HY10:Oct 71:1767:8407

Seetharama Rao, V.
See C. J. Garrison, WW2:May 71:259:8111

Seetharamiah, Kyatsandra
Dsc, with Rama Prasad, HY6:Nov 69:2157:6866, of "Reducing Cavitation in Valves", HY6:Nov 68:1475:6255
See Nagar S. Lakshmana Rao, HY2:Feb 70:331:7055
See Thimmaiah Gangadharaiah, HY7:July 70:1549:7427
See Annapareddy Siva Reddy, HY7:July 71:1101:8248

Sefchovich, Eli
Condenser Cooling and Pumped-Storage Reservoirs, PO3:July 71:611:8247
TR:137:1006

Segall, Burton A.
Velocity Profiles and Dispersion in Estuarine Flow, with Erik R. Gidlund, SA4:Aug 72:647:9109
TR:138:435

Segedin, Cecil M.
Integral Equation Method for a Corner Plate, with D. Brickell, ST1:Jan 68:41:5711
Dsc: George T. Symm, ST7:July 68:1858:6017; Mario G. Salvadori and David H. Geiger, ST10:Oct 68:2506:6135; M. Maiti, ST11:Nov 68:2626:6203
Clo: ST12:Dec 69:2985:6932
TR:135:410

Seginer, Ido
Wind Variation and Sprinkler Water Distribution, IR2:June 69:261:6594
TR:135:91
See Michael Poreh, HY10:Oct 70:2065:7637

Seide, Paul
Small Vibrations of Uniformly Compressed Isotropic Elastic Solids, TN: EM4:Aug 71:1337:8273
Dsc, ST4:Apr 71:1380:8015, of "Nonsymmetric Vibrations of Thin Cylindrical Shells", ST10:Oct 70:2175:7632

Seidel, Daniel F.
Evaluation of Anaerobic Denitrification Processes, with Ronald W. Crites, SA2:Apr 70:267:7211
  Dsc: Carl Beer, SA6:Dec 70:1452:7713; Kurt J. Guter, Wayne F. Echelberger, Jr. and Mark W. Tenney, SA1:Feb 71:109:7865
  Clo: SA5:Oct 71:756:8409
  TR:136:1247

Seidler & Associates
Australia Square, TB:73:C-P-418
City Mutual Building, TB:73:C-P-422
M.L.C. Centre, TB:73:C-P-426

Seifert, Eleonora
ASCE Employee Retires With 53 Years Of Service, CE:Aug 73:70

Seigel, Lawrence G.
Performance Requirements for Fireproofing Materials, EM3:June 74:489:10598

Seim, Charles
See John J. Kozak, CE:June 72:47

Seinwill, Gerald D.
See Bruce Barker, WW4:Nov 70:874:7645
See Bruce Barker, SA1:Feb 71:124:7865

Seiple, W. Ray
New Approach to Site Selection Studies, PO1:July 74:63:10643

Seiss, Chester D.
See Richard E. Woodring, ST1:Jan 68:211:5755

Seitz, Arthur M.
See Edwin Paul Swatek, Jr., PES:72:I-1303

Seitz, Roger M.
External Transportation, State-of-Art Report 9, TB:73:Ia-1-211

Selander, Carl E.
See Russell C. Borden, CO2:Sept 72:161:9180

Selbe, Rexford L.
Precast Concrete in Residential Construction, UP1:Mar 73:93:9596
  TR:139:156

Selig, Ernest T.
Retaining Wall Experiment to Evaluate Soil Strain Gage, with Jackson Ho, TN: SM6:June 71:953:8162
See Delon Hampton, SM4:July 70:1391:7434

Sell, Lloyd E.
Hydroelectric Power Plant Trashrack Design, PO1:Jan 71:115:7819
  Dsc: Ernest C. James and Fredric T. Katakura, PO4:Dec 71:876:8551
  Clo: PO1:June 72:168:8927
  TR:137:488

Selleck, Robert E.
See Harvey F. Collins, NSCD:71:137
See Harvey F. Collins, SA5:Oct 71:549:8430
See Harvey F. Collins, SA4:Aug 72:664:9077

Selna, Lawrence G.
Creep, Cracking, and Shrinkage in Concrete Frame Structures, ST12:Dec 69:2743:6949
  TR:136:1232
Design of Offshore Structures Against Resonant Response, with David Cho, CEO-II:70:79
Resonant Response of Offshore Structures, with David Cho, WW1:Feb 72:15:8708
  TR:138:155
See Gerald T. Orlob, HY2:Feb 70:391:7063

Selvaraj, Sebastine
Dsc, ST7:July 73:1648:9826, of "High-Rise Panel Structures", ST5:May 72:975:8894
Dsc, ST7:July 73:1650:9826, of "Model Investigations of Shear Wall Structures", ST6:June 72:1223:8936
Dsc, ST11:Nov 73:2311:10113, of "Approximate Inelastic Analysis of Shear Wall-Frame Structures", ST11:Nov 72:2351:9351

Sembenelli, Piero
Aguada Blanca Rockfill Dam with Metal Facing, with Marco Fagiolo, GT1:Jan 74:31:10270
  Dsc: S. Clifford Doughty, GT11:Nov 74:1256:10897

Sembler, Eugene L.
Port of San Francisco's LASH Terminal, CE:Apr 73:48
  TR:139:166

Semrau, Rodolfo
See Arley G. Franklin, SM7:July 73:541:9873

Sen, Arunendu
Dsc, with Anadi Chatterjee, WW2:May 73:283:9694, of "Mathematical Model of River Hooghly", WW2:May 72:225:8866
See Amarendra N. Biswas, HY5:May 71:747:8081

Sen, B.
Iterative Method for Solving Rectangular Plates, with S. Sengupta and T. K. Nath, ST1:Jan 72:135:8644
  TR:138:113

Sen, Subir K.
Free Vibration of Shells of Revolution Using FEM, with Phillip L. Gould, EM2:Apr 74:283:10488
Hyberboloidal Shells on Discrete Supports, with Phillip L. Gould, TN: ST3:Mar 73:595:9629
See Phillip L. Gould, TN: ST10:Oct 74:2165:10858

Sengal, Beni P.
See Asit K. Biswas, HY5:Sept 69:1763:6784

Sengupta, S.
See B. Sen, ST1:Jan 72:135:8644

Seni, Alfio
Dsc, ST8:Aug 72:1880:9079, of "Analysis of Horizontally Curved Box Girder Bridges", ST10:Oct 71:2481:8453

Senturk, Fuat
Dsc, HY1:Jan 69:475:6323, of "Alluvial Channel Resistance to Bed Form", HY1:Jan 68:59:5720

Sepp, Endel
Disposal of Domestic Wastewater by Hillside Sprays, EE2:Apr 73:109:9673
  Dsc: Ralph Stone, EE6:Dec 73:964:10180; Roy E. Ramseier, EE1:Feb 74:224:10302
  Clo: EE5:Oct 74:1186:10836
  TR:139:70

Serafim, J. Laginha
Complete Adjustment Method for Analyzing Arch Dams, with J. Caldeira Rodrigues, Alferdo Portelo and Mario J. Milho, ST8:Aug 70:1711:7492
  Dsc: K. V. Swaminathan and C. R. Venkatesha, ST6:June 71:1818:8159; Michele A. Fanelli, ST6:June 71:1823:8159; Bernhard E. Gilg and R. Zwahlen, ST6:June 71:1824:8159
  Clo: ST2:Feb 72:495:8684
  TR:137:132
Design Improvements in Concrete Dams, RCCD:70:371
Search for Economical Construction of Concrete Dams Based on Results of Observation, with M. Guerreiro and C. Gonzalez Florez, ECCD:72:311
Dsc, with A. F. da Silveira, PO2:Nov 68:240:6201, of "Trial Load Analyses Confirm Arch Dam Model Tests", PO2:Oct 67:37:5503
Dsc, PO1:Jan 71:241:7784, of "Arch Dam Design: State-of-the-Art", PO1:Jan 70:93:7021
Dsc, ST11:Nov 71:2761:8485, of "Automatic Design of Shell Structures", ST1:Jan 71:191:7825

Serff, Norman
See Izzat M. Idriss, GT1:Jan 74:1:10284

Serota, Stanley
A Direct-Reading Pocket Shear Vane, with Anil Jangle, CE:Jan 72:73
TR:138:63

Serr, Eugene F.
Interagency Approach to Watershed Problems Of Eel River, IR1:Mar 71:181:7983
TR:137:357

Serth, John
Dsc, Surveying, CE:Sept 70:72

Seshagiri, N.
See K. Keshava Murthy, HY12:Dec 70:2628:7711

Seth, S. M.
See Pashupati N. Modi, HY5:Sept 68:1358:6087

Sethunarayanan, S.
See Kashi T. Sundara Raja Iyengar, ST5:May 74:1150:10506

Sethuraman, Viswanatha
See Avittathur Achyuthan, HY11:Nov 73:2153:10109
See Avittathur Achyuthan, TN: HY2:Feb 74:339:10340
See Harihar Raman, WAVES:Sept 74:817

Setlur, Achyut V.
A New Approach to Soil-Structure Interaction Problems, with Jagannath K. Khanna and M. Valathur, SDNPF:Dec 73:139
See S. K. Radhamohan, ST6:June 71:1775:8216

Severn, Brian
See G. V. Eckenfelder, CE:May 73:45

Sewell, Granville H.
Interface Specialists: A New Engineering Profession?, CEWAU:74:154

Sexsmith, Robert G.
See Sheng-taur Mau, ST9:Sept 72:2043:9195

Sfintesco, Duiliu
Banquet Remarks at the Tall Buildings Conference, TB:73:C-523
Fire and Blast, Summary Report, with Margaret Law and Rowland J. Mainstone, TB:73:Ib-8-739
Fire and Blast, Theme Report, TB:73:Ib-8-463
Dsc: Calvin H. Yuill, TB:73:Ib-8-679
Historical Steel Frame in France, TB:73:Ia-1-268
La Defense, TB:73:Ia-1-274
Limit States of Composite Structures, TB:73:II-19-895
Tall Buildings, Conference Summary, TB:73:C-505
Tall Buildings in the World (The Viewpoint of a Non-American), TB:73:C-13

Shabrin, A. N.
See I. L. Rozovsky, ISSF:Aug 72:649

Shackson, Richard H.
Transportation Innovation and the Manufacturer, UTI:71:367

Shadburn, Morris Luther
Memoir of, TR:136:1367

Shafer, Harvey
Dsc, CE:Feb 74:107, on Designing Bridge Decks That Won't Deteriorate, CE:Aug 73:43

Shafer, James F.
Unique Solution for Difficult Rigging Problem, CO1:July 69:55:6680
TR:135:175

Shaffer, Louis R.
Bidding With Competitive Strategy Models, with Terry W. Micheau, CO1:Mar 71:113:8008
Dsc: James E. Spooner, CO2:Nov 71:345:8482; Thomas L. Morin and Richard H. Clough, CO1:Mar 72:137:8748
Clo: CO1:July 73:205:9822
TR:139:20
Calendar-Day CPM, CE:Aug 69:65
TR:135:673

Shah, Haresh C.
See Masaru Hoshiya, EM4:Aug 71:1239:8331
See G. I. Schueller, CE13:72:III-1683
See Carl J. Turkstra, TB:73:Ib-10-919

Shah, Hemant H.
Seismic Analysis of Underground Structural Elements, with Shih-Lung Chu, PO1:July 74:53:10648
See P. K. Agrawal, SDNPF:Dec 73:63

Shah, Jayant M.
See Mehdi S. Zarghamee, EM2:Apr 68:371:5878

Shah, Nanak V.
See S. Narasimhan, HY9:Sept 71:1530:8345

Shah, Surendra P.
Effects of Reinforcements on Ductility of Concrete, with B. Vijaya Rangan, ST6:June 70:1167:7366
Dsc: Satyendra K. Ghosh, ST3:Mar 71:988:7944; Ryszard Kowalczyk, ST3:Mar 71:989:7944; K. Nagi Reddy and S. Ramaswamy Reddy, ST3:Mar 71:991:7944
Clo: ST10:Oct 71:2604:8411
TR:136:1262
Griffith Fracture Criterion and Concrete, with Frederick J. McGarry, EM6:Dec 71:1663:8597
Dsc: Edwin T. Brown and John A. Hudson, EM5:Oct 72:1310:9221; Madhav S. Marathe, EM5:Oct 72:1312:9221
Clo: EM2:Apr 73:412:9636
TR:138:45
Impact Resistance of Ferro-Cement, with William H. Key, Jr., ST1:Jan 72:111:8640
TR:138:101
See Ranga Palaniswamy, ST5:May 74:901:10547

Shah, Surendra R.
Torsional Vibrations of Conical Frustum, EM5:Oct 71:1521:8452
Errata: EM4:Aug 72:1001:9125
TR:137:813

Shah, Vipin S.
See Loren D. Lutes, EM4:Aug 73:715:9918

Shahady, Paul
See Patricio A. Laura, EM1:Feb 69:59:6386

Shahan, James E.
Effects and Control of Highway Traffic Noise, with George W. Kamperman, TE2:May 73:307:9726
TR:139:264

Shahane, Ashok N.
Dsc, EE1:Feb 73:97:9521, of "Research Needs in Sanitary Engineering", SA2:Apr 72:299:8833
Dsc, EE4:Aug 73:565:9893, of "Stochastic Population Projection at Design Level", SA6:Dec 72:883:9436

Shahin, Mamdouh M. A.
Dsc, IR1:Mar 69:242:6428, of "Consumptive Use Derived From Evaporation Pan Data", IR1:Mar 68:97:5863
Dsc, IR1:Mar 69:248:6428, of "Pan Evaporation and Evapotranspiration from Climatic Data", IR2:June 68:243:5988

Shaifer, Edward F., Jr.
Construction Education -- A Case of Civil Engineering Indigestion, CEE:Feb 74:1-538

Shamir, Uri
Water Distribution Systems Analysis, with Charles D.D. Howard, HY1:Jan 68:219:5758
  Dsc: M. McCormick, HY1:Jan 69:481:6323; Peter W. Rowe and Laing Barden, SM1:Jan 69:439:6324
  Clo: HY2:Feb 70:577:7045
  TR:135:868
Dsc, HY8:Aug 73:1283:9895, of "Efficient Algorithm For Distribution Networks", HY11:Nov 72:1911:9336
Dsc, EE5:Oct 73:759:10035, of "Optimization of Dead End Water Distribution Systems", EE2:Apr 73:123:9650
See Uri Kirsch, ST1:Jan 72:249:8645
See Yerachmiel Argaman, EE5:Oct 73:703:10050

Shane, Mathew
See Terry Roe, TE3:Aug 73:571:9960

Shane, Miriam S.
See Robert E. Cannon, EE6:Dec 74:1205:11012

Shane, Richard M.
Peak Flood Discharge Confidence Limits, with Walter R. Lynn, HY1:Jan 69:161:6329
  TR:136:641

Shangarpawar, S. D.
Dsc, with S. M. Dhabadgaonkar, SA6:Dec 71:948:8555, of "Physical Behavior of Flocculent Suspensions in Upflow", SA2:Apr 71:209:8054

Shank, George E.
See John B. Herbich, WW1:Feb 71:57:7870

Shankarachar, D. M.
Dsc, with T. R. Chandrasekhara, HY4:Apr 70:1045:7189, of "A Man of Hydraulics: Henri de Pitot (1695-1771)", HY4:July 69:1129:6650
Dsc, HY8:Aug 70:1747:7439, of "Local Scour Around Bridge Piers", HY6:Nov 69:1919:6891

Shanker, N. Babu
Dsc, SM3:May 70:1070:7249, of "Property Interrelationships in Sensitive Clays", SM4:July 69:1037:6666

Shanmugam, Gonapathy
See Iaakov Karcz, TN: HY11:Nov 74:1735:10923

Shanmughasundaram, N.
Design of Biaxially Loaded Rectangular Footings, TN: ST10:Oct 74:2157:10858

Shannon, Asa V.
Dsc, with Edward B. Madden, WW3:Aug 68:382:6053, of "Preservation of Estuaries by Tidal Inlets", WW4:Nov 67:133:5583

Shannon, Earl E.
Eutrophication Analysis: A Multivariate Approach, with Patrick L. Brezonik, SA1:Feb 72:37:8735
  TR:138:237

Shannon, John W.
Use of Atmometers in Estimating Evapotranspiration, IR3:Sept 68:309:6120
  TR:136:840

Shannon, V.
Advantages Of Inclined-Axis Hydroelectric Units, with Charles H. Fogg, PO2:Mar 71:395:7948
  TR:137:195

Shannon, William L.
Tied-Back Foundation Wall for Seattle First National Bank, with Robert J. Strazer, CE:Mar 70:62
  TR:136:302

Shao, Lawrence C.
See Kanwar K. Kapur, SDNPF:Dec 73:29

Sharda, S. C.
Dsc, SM2:Mar 70:773:7115, of "Settlement of Building on Deep Compressible Soil", SM3:May 69:769:6547

Sharifi, Parviz
Nonlinear Buckling Analysis of Sandwich Arches, with Egor P. Popov, EM5:Oct 71:1397:8417
  Dsc: James F. Dickie and Peter Broughton, EM5:Oct 72:1308:9221
  Clo: EM2:Apr 73:411:9636
  TR:138:11

Sharma, A. K.
Investigation of Spherical Shell Foundation, TN: SM6:June 73:489:9815

Sharma, Hari R.
Dsc, HY2:Mar 69:723:6433, of "Hydraulic Jumps Below Abrupt Symmetrical Expansions", HY2:Mar 68:481:5860
Dsc, HY9:Sept 71:1567:8345, of "Hydraulic Jump Within Gradually Expanding Channel", HY1:Jan 71:31:7831
Dsc, HY10:Oct 72:1884:9222, of "Drag Forces on Baffle Blocks in Hydraulic Jump", HY12:Dec 71:2023:8599
See Satya P. Garg, HY3:Mar 71:409:7994

Sharma, Heramb D.
Analysis of Canal Seepage to Interceptor Drain, with Amrik S. Chawla, IR3:Sept 74:351:10819
Dsc, with D. V. Varshney and Vijay K. Agarwal, HY2:Feb 73:375:9523, of "Einstein Bed-Load Function at High Sediment Rates", HY1:Jan 72:137:8652
Dsc, with D. V. Varshney and Ashutosh K. Agrawal, HY4:Apr 73:684:9637, of "Friction Factors in Solid Material Laden Systems", HY4:Apr 72:681:8854

Sharma, Jagat N.
Dsc, PP4:Oct 72:723:9224, of "Systems Approach and the Civil Engineer", PP1:Oct 71:65:8457

Sharma, S. P.
Dsc, with A. Rajaraman, ST8:Aug 71:2153:8271, of "Concrete Box-Girder Bridges as Sandwich Plates", ST11:Nov 70:2353:7695

Sharma, Satya S.
Strength of Steel Columns with Biaxially Eccentric Load, with Edwin H. Gaylord, ST12:Dec 69:2797:6960
  TR:136:457
See Ishwar C. Syal, ST3:Mar 70:469:7143
See Ishwar C. Syal, ST9:Sept 71:2245:8384

Sharp, B. B.
Dsc, HY2:Feb 74:323:10305, of "Water-Hammer Charts for Various Types of Valves", HY1:Jan 73:167:9500

Sharp, J. C.
Evaluation of Hydraulic Properties of Rock Masses, with Y. N.T. Maini and Tor L. Brekke, RM14:73:481
See C. O. Brawner, RM13:72:329

Sharp, James J.
Arrested Wedge in Circular Tube, with Chung-su Wang, TN: HY7:July 74:1085:10640
Distorted Modeling of Density Currents, CE13:72:III-2329
Observations on Hydraulic Jumps at Rounded Step, HY6:June 74:787:10592
Physical Interpretation Of Jet Dilution Parameters, SA1:Feb 68:55:5789
  Dsc: Loh-Nien Fan and Norman H. Brooks, SA6:Dec 68:1295:6262
  Clo: SA4:Aug 69:772:6706
  TR:135:1026

Spread of Buoyant Jets at the Free Surface, HY3: May 69:811:6538
Dsc: Habib O. Anwar, HY1:Jan 70:288:6988
Errata: HY2:Feb 70:588:7045
Clo: HY8:Aug 70:1717:7439
TR:136:66
Unsteady Spread of Buoyant Surface Discharge, HY9:Sept 71:1471:8396
TR:137:788
Dsc, HY1: :11038, of "Transformation of Moody Diagram", HY6:June 74:797:10624
Dsc, HY4:Apr 70:1065:7189, of "Behavior of Buoyant Jet in Calm Fluid", HY4:July 69:1289:6688
Dsc, HY8:Aug 70:1767:7439, of "Graphical Solution to Hydraulic Jump", HY1:Jan 70:103:7014
Dsc, HY4:Apr 71:627:8012, of "Calibration of Walnut Gulch Supercritical Flumes", HY8:Aug 70:1681:7479
Dsc, HY9:Sept 71:1571:8345, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994
See David I. H. Barr, HY6:Nov 68:1537:6200

Sharp, Maurice L.
Field Tests of Aluminum Orthotropic Bridge Deck, ST11:Nov 69:2463:6920
Dsc: Harvey A. Kagan, ST7:July 70:1614:7386
Clo: ST3:Mar 71:967:7944
TR:136:382
Strength of Beams or Columns with Buckled Elements, TN: ST5:May 70:1011:7254
Thin Aluminum Shear Webs, with John W. Clark, ST4:Apr 71:1021:8048
Dsc: Robert T. Ratay, ST9:Sept 71:2444:8348
Clo: ST4:Apr 72:936:8802
TR:138:5

Sharpe, Carl P.
See Robert J. Maxman, UT73:May 73:237

Sharpe, Roland L.
Earthquake Engineering for Nuclear Power Plants, CE:Mar 69:39
TR:135:391
Seismic Design of Nonstructural Elements, TB:73:Ia-12-1143
Structural Response to Sonic Booms, with Garrison Kost, ST4:Apr 71:1157:8063
Dsc: Melvin W. Jackson, ST10:Oct 71:2628:8411; David H. Cheng and Jacques E. Benveniste, ST12:Dec 71:2928:8557; William R. Schriever, ST2:Feb 72:509:8684
Clo: ST10:Oct 72:2311:9227
TR:137:668
Systems Aspects of Seismic Design for Nuclear Plants, PO1:May 73:175:9717
Errata: PO1:July 74:10636
TR:139:290
Dsc, with Garrison Kost, PO1:June 72:172:8927, of "Structural Behavior of Prestressed Concrete Reactor Vessels", ST7:July 71:1879:8249

Sharpe, Ron
See A. F. Brotchie, UP1:Mar 73:25:9587

Sharpe, Ronald
Dsc, PO2:Nov 68:245:6201, of "Arch Dam Layout Facilitated by Use of Computer", PO2:Oct 67:69:5523

Sharpure, Sakharam V.
See Kashi T. Krishnaswamy, ST2:Feb 72:533:8684

Shastry, J. S.
Nonlinear Parameter Estimation in Water Quality Modeling, with Liang-tseng Fan and L. E. Erickson, EE3:June 73:315:9798
TR:139:199
Dsc, with Liang-Tseng Fan and L. E. Erickson, SA6: Dec 69:1186:6931, of "Reaeration Prediction in Natural Streams", SA1:Feb 69:65:6407

Shaver, Robert E.
Former Kentucky Engineering Dean Dies In Florida, CE:Sept 73:117

Shaw, C. H., Jr.
What a Good Safety Program Means, CE:Oct 72:53
TR:138:447

Shaw, Jocelyn F.B.
See Bernard E. Howard, HW1:June 68:61:5987

Shaw, Larry K.
See T. Allan Haliburton, TE2:May 72:325:8870

Shaw, Richard Paul
Channel Friction and Slope Effects on Harbor Resonance, with Chi-Kwong Lai, WW3:Aug 74:205:10706
See George F. Carrier, EM6:Dec 71:1703:8611

Shaw, Samuel
See Henry A. Babcock, HY6:Nov 67:442:5543

Shaw, Thomas L.
Effect Of Side Walls On Flow Past Bluff Bodies, HY1:Jan 71:65:7788
Dsc: Andreas Richter, HY8:Aug 71:1258:8267; Anching Lin, HY10:Oct 71:1781:8407; Bezzam C. Syamala Rao and D. Chandrasekaran, HY10: Oct 71:1782:8407
Clo: HY5:May 72:949:8859
TR:137:588
Integration Of Pumped-Storage With Tidal Power, with Geoffrey R. Thorpe, PO1:Jan 71:159:7810
Dsc: Mohammad Hanif Chaudhry, PO1:June 72:155:8927
TR:138:29
Shear Flow Past Circular Cylinder, with Michael R. Starr, HY3:Mar 72:461:8774
TR:138:201
Steady Flow Past Flat Plate in Channel, HY6:Nov 69:2013:6903
Dsc: K. G. Ranga Raju and Ramachandra J. Garde, HY8:Aug 70:1749:7439
Clo: HY3:Mar 71:453:7940
TR:136:306
Tidal Energy from the Bay of Fundy, with J. van den Heuvel, CE:Dec 72:40
Dsc: Orville T. Magoon, CE:Mar 73:87; G. V. Eckenfelder, J. David Gwynn, Eric M. Wilson and Brian Severn, CE:May 73:45
Clo: CE:Mar 74:24
TR:138:531
Dsc, EM5:Oct 74:1050:10837, of "Effect of Blockage on Steady Force Coefficients", EM4:Aug 73:755:9905
See Charles K. Haswell, PO2:Oct 72:201:9297

Shaw, Warren A.
See Lynn S. Beedle, 1970, 290 pp.

Shea, Gerald P.
See Austin E. Brant, Jr., NA:Mar 71:13

Sheaffer, John R.
Urban Water Planning and Management: A Conceptual Framework and Problem Focus, UWRM:71:5

Sheahan, James M.
Lime Reclaims Unstable Interior Subgrade During Construction, CE:June 72:74
TR:138:303

Shedd, Jack P.
Steel Box Girder Makes Handsome Bridge, CE:May 73:67
TR:139:218

Sheehey, Roy T.
Financial Tools for a Consulting Firm, CE:Jan 72:66
TR:138:48

Financial Tools for a Geotechnical Consulting Firm, 4PCSM:71:II345
  Dsc: Sigmundo Golombek, 4PCSM:72:III239; Andres Perez M., 4PCSM:72:III241

Sheffield, C. W.
Effects of Farming—Urban Drainage on Fresh Water, with William M. Bishop, IR73:Aug 73:691

Sheinman, Izhak
See Yair Tene, EM2:Apr 74:235:10487

Shelef, Gedalia
Algal Reactor For Life Support Systems, with William J. Oswald and Percy H. McGauhey, SA1: Feb 70:91:7105
  TR:136:797

Shelton, Mercel J.
The Municipal Engineer's Role in Planning Water Resources Development, PP1:Dec 67:37:5668
  TR:135:883

Shemdin, Omar H.
Interaction Of A River With The Coast: Laboratory Simulation, CEO-II:70:763
River-Coast Interaction: Laboratory Simulation, WW4:Nov 70:755:7658
  TR:137:845
Tidal Motion in Bays, with R. M. Forney, 12CEC:71: 2225
Wave-Influence on Wind Velocity Profile, WW4:Nov 70:795:7661
  TR:137:845
Wind-Generated Current and Phase Speed of Wind Waves, CE13:72:I-537
Dsc, with Robert G. Dean, HY3:May 69:1060:6524, of "Free Surface Shear Flow Over a Wavy Bed", HY2:Mar 68:431:5856
Dsc, with Ashish J. Mehta, WW1:Feb 72:97:8686, of "Anemometer Height in Froude Scaling of Wind Stress", WW1:Feb 71:131:7873

Shen, Chih-Kang P.
Secondary Consolidation and Strength of a Clay, with Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510
  Errata: SM11:Nov 73:1023:10112
  TR:139:230
See Kenneth L. Lee, SM1:Jan 69:139:6336
See Leonard R. Herrmann, GT8:Aug 74:958:10695

Shen, Chung-Tung
See D. R. Denton, SDNPF:Dec 73:571

Shen, Hsieh W.
Analysis of Resistance Over Staggered Roughness, with Ruh-Ming Li, TN: HY11:Nov 73:2169:10/47
Dispersion of Contaminated Sediment Bed Load, with Hin Fatt Cheong, HY11:Nov 73:1947:10138
  TR:139:445
Local Scour Around Bridge Piers, with Verne R. Schneider and Susumu Karaki, HY6:Nov 69:1919: 6891
  Dsc: Charles R. Neill, HY5:May 70:1224:7248; Jean Larras, HY6:June 70:1368:7310; Alan T. Roper, Muthusamy Krishnamurthy and Herman N. C. Breusers, HY7:July 70:1636:7384; L. Veiga Da Cunha, HY8:Aug 70:1742:7439; D. Shankarachar Brensers and T. R. Chandrasekhara, HY8:Aug 70:1747:7439; Anthony Rylands Thomas, HY9:Sept 70:1894: 7497; D. M. Shankarachar, HY8:Aug 70:1747: 7439
  Clo: HY9:Sept 71:1513:8345
  TR:136:851
Rainfall Effect on Sheet Flow Over Smooth Surface, with Ruh-Ming Li, HY5:May 73:771:9733
  Dsc: Donald A. Parsons, HY8:Aug 74:1162:10696
  TR:139:284
Dsc, HY6:June 70:1371:7310, of "Sediment Measurement Techniques: E. Airborne Sediment, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY1: Jan 70:29:7001
Dsc, HY1:Jan 74:233:10251, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295
See Sylvester Petryk, TN: HY6:June 71:883:8161
See Suryanarayana Bhamidipaty, WW4:Nov 71:615: 8493
See Ruh-Ming Li, HY5:May 73:793:9748

Shen, Thomas T.
Indirect Method of SO_2 Determination from Combustion, TN: EE3:June 74:795:10571

Sheninger, Eugene L.
Experiments on Nonsway Structural Subassemblages, with Le-Wu Lu, ST3:Mar 70:573:7159
  TR:136:834

Shephard, George M.
Memoir of, TR:139:576

Shepherd, Robin
Seismic Response Predictions of Bridge Pier, with Richard E. McConnel, EM3:June 72:609:8949
  TR:138:256
See Warren R. Walpole, ST10:Oct 69:2031:6813

Sherard, James L.
Earth and Earth-Rock Dams -- Reporter's Summary, PES:73:III-77
Hydraulic Fracturing in Low Dams of Dispersive Clay, with Rey S. Decker and Norman L. Ryker, PES:72:I-653
  Dsc: O. G. Ingles, PES:73:III-119; Gordon L. Bell, PES:73:III-127; R. A. Rallings, PES:73:III-131; Aurelio Bemassini Vizcaino and Vicente Casales Lattuada, PES:73:III-135
  Clo: PES:73:III-143
Mixing-in-Place Soil and Portland Cement, SM6:Nov 69:1357:6909
  Dsc: Carl R. Wilder and Leonard T. Norling, SM4:July 70:1476:7385; M. Minkov and Dimtcho Evstatiev, SM5:Sept 70:1821:7499
  Clo: SM4:Apr 71:681:8014
  TR:136:305
Piping in Earth Dams of Dispersive Clay, with Rey S. Decker and Norman L. Ryker, PES:72:I-589
  Dsc: Edward D. Graf and Harpal S. Arora, PES: 73:III-105; Aldo R. Reginatto, PES:73:III-107; O. G. Ingles, PES:73:III-111; Gordon L. Bell, PES:73:III-127; R. A. Rallings, PES:73:III-131; Aurelio Bemassini Vizcaino and Vicente Casales Lattuada, PES:73:III-135
  Clo: PES:73:III-143
Potentially Active Faults in Dam Foundations, IMROD:Sept 73:768
Dsc, SM5:Sept 70:1828:7499, of "Design, Construction and Performance of Sesquile Dam", SM1:Jan 70:177:6996
Dsc, HY11:Nov 73:2148:10109, of "Damage to Karnafuli Dam Spillway", HY12:Dec 72:2155:9452

Sherbourne, Archibald N.
Plastic Analysis of Anisotropic Disks and Plates, with Sridhara D.N. Murthy, EM1:Feb 72:11:8694
  Errata: EM1:Feb 73:225:9522
  TR:138:59
Post-Buckling of Axially Compressed Plates, with Robert M. Korol, ST10:Oct 72:2223:9239
  TR:138:477
Unsymmetrical Yield Point Loads of Spherical Domes, with John Schroeder, EM3:June 68:823: 6004
  TR:135:579
See Fernand Ellyin, EM6:Dec 68:1317:6265
See Narendra K. Srivastava, EM1:Feb 71:13:7902
See Settiana G. Krishnasamy, TN: ST3:Mar 71:1015: 7946
See Sridhara D.N. Murthy, TN: EM3:June 71:1033: 8160

See Sridhara D.N. Murthy, TN: EM4:Aug 72:1005:9082
See Robert M. Korol, ST9:Sept 72:1965:9194
See Helmut M. Haydl, TN: EM6:Dec 73:1309:10187
See Sridhara D.N. Murthy, EM2:Apr 74:251:10478

Sherif, Mehmet A.
Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, with Robert J. Strazer, SM1:Jan 73:111:9511
  Dsc: Birger Schmidt, SM8:Aug 73:640:9892; David A. Howells, SM10:Oct 73:899:10038; Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Yudhbir and B. Prasad, SM11:Nov 73:1023:10112
  TR:139:236
Dsc, SM3:May 69:898:6525, of "Cyclic Stress-Strain Characteristics of Clay", SM2:Mar 68:555:5871
See Isao Ishibashi, GT8:Aug 74:871:10752

Sherlock, Robert H.
Memoir of, TR:138:639

Sherman, Donald R.
Bibliography on Latticed Structures, ST7:July 72:1545:9055
  Dsc: P. C. Varghese and C. Ganapathy Chettiar, ST7:July 73:1663:9826
  Clo: ST2:Feb 74:469:10306
  TR:139:101
Residual Stresses and Tubular Compression Members, ST3:Mar 71:891:8001
  TR:137:411
Residual Stress Measurement in Tubular Members, ST4:Apr 69:635:6502
  Dsc: Anatol A. Eremin, ST1:Jan 70:147:6990
  Clo: ST8:Aug 70:1805:7442
  TR:135:978
Torsionally Stiff Columns under Eccentric Loads, with Donald E. Lukas, ST2:Feb 70:335:7090
  TR:136:577

Sherman, Walter C., Jr.
Embankment Pore Pressures During Construction, with Gerald W. Clough, SM2:Mar 68:527:5867
  Dsc: Hamilton G. De Oliveira, SM3:May 69:889:6525; K. Kurma Rao, SM3:May 69:890:6525; A. L. Little, SM3:May 69:892:6525
  Clo: SM6:Nov 69:1546:6894
  TR:135:297
See Chandrakant S. Desai, SM2:Feb 71:357:7915

Sherman, Zachary
Residential Buildings Engineered to Resist Tornadoes, ST4:Apr 73:701:9668
  Dsc: L. Bertram and Anatole Longinow, ST2:Feb 74:481:10306; Ernst W. Kiesling, James R. McDonald, Kishor C. Mehta and Joseph E. Minor, ST6:June 74:1314:10569
  TR:139:295
Volume Minimization of Thin Plates Subject to Constraints, with Ping-Chun Wang, EM3:June 71:741:8192
  Errata: EM2:Apr 72:477:8798
  TR:137:245

Sherrard, Joseph H.
Design and Operation Model of Activated Sludge, with Alonzo W. Lawrence, EE6:Dec 73:773:10220
  Dsc: Ross E. McKinney, EE3:June 74:789:10564; Ralph E. Roper, Jr., Glen T. Daigger and C. P. Leslie Grady, Jr., EE4:Aug 74:1048:10693; F. Michael Saunders, EE6:Dec 74:1289:10971
  TR:139:537

Sherratt, F.
See D. J. Ashby, ST10:Oct 69:2322:6803

Sherwood, C. B.
Saltwater Intrusion in the United States, HY5:Sept 69:1651:6788
  TR:135:1070

Sherwood, Gerald E.
Wood Structures Can Resist Hurricanes, CE:Sept 72:91
  TR:138:417

Shery, R. A.
See Dirk E. L. Maasland, IR2:June 67:9:5258

Shestakov, V. M.
Dsc, HY6:Nov 68:1545:6200, of "Steady and Unsteady Flow Towards Gravity Wells", HY6:Nov 67:135:5581

Shewmaker, Robert E.
Dsc, PO1:Jan 71:262:7784, of "Post-Tensioned Concrete Nuclear Structures", PO3:June 70:400:7355
Dsc, CO2:Nov 71:344:8482, of "Construction Of Multibarrier Containment Vessels", CO1:Mar 71:53:8002

Shiau, Jong-Chiang
Adjustment of Friction in Hydraulic Models of Lakes, with Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
  Errata: HY11:Nov 74:1728:10898
  TR:139:479
Decay of Mass Oscillations in Rectangular Basins, with Ralph R. Rumer, Jr., HY1:Jan 74:119:10261
  Errata: HY12:Dec 74:1847:10974

Shiba, Sadataka
See Takeichiro Takamatsu, EE4:Aug 74:883:10705

Shieh, Rong-Chung
Asymptotic Stability Analysis of Viscoelastic Systems, EM2:Apr 71:193:8035
  TR:137:166

Shieh, William Y.J.
Analysis of Plate Bending by Triangular Element, with Seng-Lip Lee and Richard A. Parmelee, EM5:Oct 68:1089:6176
  Dsc: Aftab A. Mufti and Bharat L. Mehrotra, EM2:Apr 69:491:6484; Bharat L. Mehrotra and Richard G. Redwood, EM2:Apr 69:493:6484
  Clo: EM1:Feb 70:85:7044
  TR:135:901
See Roman P. Wengler, PO1:Jan 71:25:7805
See Chang-hua Yeh, PO2:Nov 73:339:10141

Shields, Donald H.
Passive Pressure Coefficients by Method of Slices, with A. Zeki Tolunay, SM12:Dec 73:1043:10221
  TR:139:516

Shields, John M.
Channel Rectification Engineering Survey Program, SU1:May 71:61:8119
  Errata: SU1:July 72:122:9004
  TR:137:332
Project Planning, SU1:July 72:61:9041
  Errata: SU1:Sept 73:136:9965
  TR:139:128
Surveying Safety, with Jack J. Wilks, SU1:July 72:67:9057
  Errata: SU1:Sept 73:139:9965
  TR:139:179

Shih, Chia Shun
System Optimization of Waste Treatment Plant Process Design, with John A. DeFilippi, SA2:Apr 70:409:7230
  TR:136:846

Shih, George B.
Computer Modelling of a Coniferous Forest Watershed, with Richard H. Hawkins and Melvin D. Chambers, IRS:Sept 72:433

Shih, Pen-Yuan
See Howard L. Schreyer, EM5:Oct 73:1011:10064

Shi-igai, Hiroyoshi
- Analytical Approach on Wave Overtopping on Levees, with Tsugio Kono, 12CEC:71:563

Shimek, C. L.
- Dsc, CE:Jan 71:71, on Politics and Water Pollution, CE:Oct 70:41

Shin, Byong S.
- Dsc, with Richard I. Dick, SA5:Oct 72:799:9225, of "Backwashing of Granular Water Filters", SA6:Dec 71:903:8605

Shinozuka, Masanobu
- Maximum Structural Response to Seismic Excitations, EM5:Oct 70:729:7620
  - Dsc: Patricio Ruiz, EM3:June 71:1024:8154
  - Clo: EM6:Dec 71:1741:8551
  - TR:137:38
- On the Bound of First Excursion Probability, with Jann-nan Yang, EM2:Apr 69:363:6499
  - Dsc: Ronald L. Racicot and Fred Moses, EM5:Oct 69:1291:6800
  - Clo: EM2:Apr 70:166:7188
  - TR:135:131
- Probabilistic Modeling of Concrete Structures, EM6:Dec 72:1433:9448
  - TR:138:598
- Random Processes With Evolutionary Power, TN: EM4:Aug 70:543:7444
- Safety Against Dynamic Forces, ST9:Sept 74:1821:10781
- See Jann-Nan Yang, EM3:June 69:731:6629
- See Yi-Kwei Wen, WW2:May 72:177:8889
- See Rimas Vaicaitis, ST3:Mar 73:453:9634

Shiozawa, Sam
- Dual-Purpose Desalting in Pacific Southwest, HY1:Jan 72:201:8673
  - TR:138:140

Shipley, Henry
- Development of Automation on Salt River Project, IR2:June 70:151:7373
  - TR:136:918

Shiraishi, Shunta
- A Civil Engineer's Guide to EXPO 70, with Yuzo Matsui, CE:Mar 70:43
  - TR:136:243
- See Tatsuo Nishiki, ST6:June 70:1017:7325
- See Takuya Ohira, CE:May 72:55

Shirazi, Mostafa A.
- Heated Water Jet in Coflowing Turbulent Stream, with Raul S. McQuivey and Thomas N. Keefer, HY7:July 74:919:10661

Shirley-Smith, Hubert
- Dsc, ST11:Nov 72:2637:9307, of "Main Cables of Newport Suspension Bridge", ST12:Dec 71:2825:8606

Shivashankara Rao, K. N.
- Dsc, HY3:May 69:1063:6524, of "Feasibility of Water Export", HY4:July 68:873:6024
- Dsc, HY3:May 69:1084:6524, of "Dworshak Dam Spillway and Outlets Hydraulics Design", HY4:July 68:1051:6045
- Dsc, HY4:July 69:1475:6641, of "Wave Transformation in an Open Channel Transition", HY5:Sept 68:1317:6128
- Dsc, HY5:Sept 69:1745:6784, of "Distribution of Energy Losses at Conduit Trifurcations", HY6:Nov 68:1363:6207

Shively, John W.
- Urban Renewal-Past, Present and Future, CE:Sept 69:61
  - Dsc: Richard F. Broberg, CE:June 70:47
  - TR:135:659

Shklarsky, Elisha
- See Moshe Livneh, SM10:Oct 71:1491:8410
- See Jacob Uzan, TE1:Feb 72:17:8695

Shockey, D. A.
- Failure of Rock Under High Rate Tensile Loads, with C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709

Shockley, Clyde A., Jr.
- Memoir of, TR:136:1367

Shoeb, Nabil A.
- Elastic-Plastic Analysis of Cylindrical Shells, with William C. Schnobrich, EM1:Feb 72:47:8717
  - Dsc: Morris N. Fialkow, EM6:Dec 72:1601:9390
  - Clo: EM5:Oct 73:1087:10041
  - TR:139:23

Shoemaker, Daniel L
- See Teh-Yuh Kao, HYB:Aug 73:349

Shope, John G.
- Dsc, ST2:Feb 69:295:6373, of "Load Distribution in Multiple-Bolt Tension Joints", ST5:May 68:1101:5939

Shore, Sidney
- Free Vibration Of Horizontally Curved Beams, with Swapan Chaudhuri, TN: ST3:Mar 72:793:8755
- See Chen Pang Tan, ST9:Sept 68:2135:6125
- See Chen Pang Tan, ST12:Dec 69:2997:6932
- See Richard T. Douty, EC5:70:439
- See Chen Pang Tan, ST4:Apr 70:860:7191
- See Chen Pang Tan, ST4:Apr 70:861:7191
- See Richard T. Douty, ST1:Jan 71:273:7837

Short, David L.
- See Emmett M. O'Loughlin, &HY10:Oct 71:1771:8407

Short, M. A.
- See M. L. Schwartz, CE13:72:III-2503

Shortreed, John H.
- See John P. Braaksma, TE2:May 71:187:8090

Shoukry, Zaher
- Bolted Connections with Varied Hole Diameters, with William Thomas Haisch, ST6:June 70:1105:7349
  - TR:136:954

Shridharan, Kalamear
- See Nagar S. Lakshmana Rao, HY1:Jan 70:95:7011

Shrivastava, J. P.
- Lagrangian Formulation of Statics of Shells, with Peter G. Glockner, EM5:Oct 70:547:7584
  - Errata: EM5:Oct 71:1557:8406
  - TR:136:1076
- See Peter G. Glockner, EM6:Dec 69:1331:6956

Shrivastava, S. P.
- See V. N. S. Murthy, ST2:Feb 69:288:6373

Shtencel, V. K.
- Pressure Upon Vertical Wall from Standing Waves, CE13:72:III-1649

Shubeck, Robert J.
- See Kenneth L. Lee, SM1:Jan 71:219:7833

Shubinski, Robert P.
- Effects of Urbanization on Water Quality, with Gerald F. Tierney, UT73:May 73:179
- Dsc, HY6:June 70:1374:7310, of "Numerical Solution of Saint-Venant Equations", HY1:Jan 70:223:7043
- See Carl W. Chen, HY2:Feb 71:289:7924

Shuk, Tomas
Design, Construction and Performance of Sesquile Dam, with Ricardo Cajiao and Jesus M. Sierra, SM1:Jan 70:177:6996
  Dsc: James L. Sherard, SM5:Sept 70:1828:7499
  Clo: SM4:Apr 71:682:8014
  TR:136:379

Shukair, Abla
See Assad Abdul-Baki, ST10:Oct 73:2183:10108

Shukla, Devendra K.
Statics of Random Beams, with Robert M. Stark, EM6:Dec 72:1487:9449
  Errata: EM5:Oct 73:1100:10041
  TR:139:177
See Robert M. Stark, TN: EM2:Apr 73:434:9641

Shukla, Manoj Kumar
See Singamsetti Surya Rao, HY11:Nov 71:1807:8515

Shuldiner, Paul W.
Northeast Corridor Transportation Project: Structure and Operations of Model System, TE4:Nov 70:445:7651
  TR:137:842

Shuler, John B.
Business Failures in Construction, CO2:Sept 67:73:5453
  Dsc: John D. Bristor, CO2:Oct 68:261:6131
  TR:135:493

Shulgin, Ya. S.
See G. D. Khaskhachikh, CE13:72:III-1675

Shulka, Shyam N.
Lateral Buckling of Parabolic Arches with Tilting Loads, with Morris Ojalvo, ST6:June 71:1763:8209
  TR:137:652

Shull, Hollis H.
See Dale F. Heermann, IR2:June 74:127:10588

Shull, Roger Don
Transport of Dissolved Wastes in Rivers, with Earnest F. Gloyna, SA6:Dec 69:995:6948
  TR:136:249

Shumate, Charles E.
New Honorary Members: 1974, CE:Oct 74:93

Shumate, Ronald P.
The Engineering Technician: An Underutilized Resource, CE:Feb 72:64
  TR:138:98

Shunk, Gordon
See Davit Fresko, UP1:July 72:1:9017

Shupe, G. M.
Dworshak Dam: Advanced Systems for Producing Aggregates and Placing Concrete, CE:Mar 69:35
  TR:135:384

Shuto, Nobuo
Hydraulic Resistance of Artificial Concrete Blocks, with Hiroshi Hashimoto, 12CEC:71:1587
Standing Waves in Front of a Sloping Dike, CE13:72:III-1629

Shutt, Harold E.
The State's Role in Gas Safety, TE1:Feb 72:45:8700
  TR:138:46

Shuval, Hillel I.
Natural Virus Inactivation Processes in Sea Water, with Andrew Thompson, Badri Fattal and Samuel Cymbalista, NSCD:71:429
Natural Virus Inactivation Processes in Seawater, SA5:Oct 71:587:8427
  TR:137:1031

Sias, James F
See Arthur G Strassburger, PO2:Oct 69:335:6863

Sidamon-Eristoff, Constantine
Is Joint Development the Chicken, or the Egg?, TE3:Aug 71:469:8315
  TR:137:957

Siddall, James N.
Model Test and Analysis of Oblique Folded Plate Structure, with Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043:9772
  TR:139:338

Siddiqi, I. H.
See George C. Brookhart, ST3:Mar 68:671:5851

Siddiqi, R. H.
Evaluation of Some Stabilization Ponds in India, with B. K. Handa, SA1:Feb 71:91:7912
  Dsc: Santosh R. Goswami, SA4:Aug 71:542:8269
  Clo: SA2:Apr 72:443:8800
  TR:137:605
Dsc, SA1:Feb 71:127:7865, of "Unified Basis for Biological Treatment Design and Operation", SA3:June 70:757:7365

Sides, Geoffrey R.
See Laing Barden, SM1:Jan 69:33:6338
See Laing Barden, SM4:July 70:1171:7397

Sides, John Patrick
See William S. Gaither, WW3:Aug 69:395:6750

Siefert, Winfried
Shallow Water Wave Characteristics, CE13:72:I-329
Wave Investigations in Shallow Water, 12CEC:71:151

Siegel, Melvin
Design of Pedestrian Facilities for the Washington Metro, BP73:Dec 73:420

Sierakowski, R. L.
Dsc, with G. W. Hemp, EM2:Apr 72:481:8798, of "Strain Rate Effects in Particulate-Filled Epoxy", EM4:Aug 71:1159:8314

Sierra, Jesus M.
See Tomas Shuk, SM1:Jan 70:177:6996

Siess, Chester P.
See German R. Gurfinkel, ST3:Mar 68:709:5859
See D. S. Hatcher, ST6:June 69:1051:6585
See William L. Gamble, ST6:June 69:1073:6586
See M. Daniel Vanderbilt, ST6:June 69:1097:6587
See James O. Jirsa, ST6:June 69:1117:6588

Sigbjornsson, Ragnar
See Julius Solnes, ST3:Mar 73:381:9585

Sikes, Philip G.
Concrete Chimney Design, Construction and Operation, PO3:June 70:449:7368
  Dsc: Robert W. Peirce, PO1:Jan 71:264:7784
  TR:137:838
Disposal and Uses of Power Plant Ash in Urban Area, with Henry J. Kolbeck, PO1:May 73:217:9741
  TR:139:341

Silano, Louis G.
See Alfred Hedefine, CE:Aug 70:64
See Alfred Hedefine, ST11:Nov 71:2653:8533

Silberman, David J.
Dsc, EE5:Oct 73:752:10035, of "Stochastic Population Projection at Design Level", SA6:Dec 72:883:9436

Silberman, Edward
Effects of Helix Angle on Flow in Corrugated Pipes, HY11:Nov 70:2253:7685
Dsc: Jerome M. Normann, HY8:Aug 71:1243:8267
Clo: IR1:Mar 72:145:8750
TR:137:918
Warm Water Discharges into Lakes and Reservoirs, ISSF:Aug 72:433
Dsc, HY1:Jan 70:298:6988, of "Manning n for Cast-in-Place Concrete Pipe", HY3:May 69:995:6575
Dsc, CE:Sept 70:60, on Universal Formula For Uniform Flow, CE:Jan 70:50
Dsc, HY4:Apr 73:699:9637, of "Evaluating Water Surface Heat Exchange Coefficients", HY8:Aug 72:1411:9118
Dsc, HY12:Dec 74:1859:10974, of "Winter-Regime Thermal Response of Heated Streams", HY4:Apr 74:531:10479
Dsc, HY4:Apr 70:1094:7189, of "Characteristics of Rock Motions During Earthquakes", SM5:Sept 69:1199:6783
Dsc, HY4:Apr 70:1094:7189, of "Investigation of Brahmaputra River", HY5:Sept 69:1687:6793
Dsc, WW1:Feb 71:227:7868, of "Coastal Erosion in North Carolina", WW2:May 70:531:7306
Dsc, HY1:Jan 72:301:8620, of "Protection of Offshore Structures Against Underscour", HY7:July 71:1011:8230
Dsc, WW3:Aug 74:251:10699, of "Characteristics and Behavior of Pacific Coast Tidal Inlets", WW3:Aug 73:325:9927

Sill, John W.
Sand Fill Pumped 15 Miles for Interstate Construction, CE:Feb 71:44
TR:137:100

Silva, Armand J.
WPI Plan -- From Concept to Reality, with William R. Grogan, CEE:Feb 74:1-64

Silva, Manuel A.G.
Deflection of Circular Plate with Built-in Edges, with Leon M. Keer, ST8:Aug 71:2073:8319
Errata: ST6:June 72:1332:8930
TR:137:731
Vibration of Structures Having Changing Boundaries, with Leon M. Keer, EM3:June 71:1007:8220
TR:137:331

Silver, Marshall L.
Deformation Characteristics of Sands Under Cyclic Loading, with H. Bolton Seed, SM8:Aug 71:1081:8334
TR:137:663
Noise and Vibration Control in New Rapid Transit, TE4:Nov 72:891:9382
TR:138:579
Volume Changes in Sands During Cyclic Loading, with H. Bolton Seed, SM9:Sept 71:1171:8354
TR:137:768
See H. Bolton Seed, SM4:Apr 72:381:8844

Silver, Van A.
Density Studies of Cohesive Trench Backfills, with Henry M. Reitz and Richard C. Huning, TN: SM2:Mar 70:789:7117

Silverman, Isadore K.
Shallow Spherical Shells Under Apex Loads, with John R. Mays, ST1:Jan 74:249:10262
Dsc: Kenneth P. Buchert, ST11:Nov 74:2352:10899; Kuo-Kuang Chen and David S. Fine, ST12:Dec 74:2523:10977
Dsc, EM2:Apr 73:418:9636, of "End Effects in Truncated Semi-Infinite Wedge", EM5:Oct 72:1239:9251
See Harry D. Knostman, EM3:June 68:797:5998

Silvester, Richard
Computation of Storm Surge, 12CEC:71:1995
Growth of Crenulate Shaped Bays to Equilibrium, WW2:May 70:275:7274
TR:136:737
A New Approach to Coastal Defense, with Siew-Koon Ho, CE:Sept 74:66
Pattern Forming Forces in Deltas, with Catalino del Rosario de la Cruz, WW2:May 70:201:7260
TR:136:615
Reach of Waves to the Bed of the Constitutional Shelf, with Geoffrey R. Mogridge, 12CEC:71:651
Use of Crenulate Shaped Bays to Stabilize Coasts, with Siew-Koon Ho, CE13:72:II-1347
Use of Mixing Tubes on Marine Outfalls, with Mana Patarapanich, CE13:72:III-2171

Simanton, J. Roger
See Kenneth G. Renard, HY9:Sept 73:1647:9961

Simitses, G. J.
See C. V. Smith, Jr., EM3:June 69:559:6607

Simiu, Emil
Gust Factors and Alongwind Pressure Correlations, ST4:Apr 73:773:9686
Dsc: Joseph Vellozzi, ST11:Nov 73:2332:10113
Clo: ST8:Aug 74:1713:10697
TR:139:311
Logarithmic Profiles and Design Wind Speeds, EM5:Oct 73:1073:10100
TR:139:492
Variation of Mean Winds with Height in Hurricanes, TN: EM4:Aug 74:832:10692
Wind Spectra and Dynamic Alongwind Response, ST9:Sept 74:1897:10815

Simmons, Don
See Charles A. Monaghan, CE:June 73:85

Simmons, Henry B.
Uses of Models in Resolving Tidal Problems, HY1:Jan 69:125:6345
TR:136:898

Simon, Andrew L.
See Yoseph Bar-Kochba, IRS:Sept 72:87

Simon, Harold
See George Bugliarello, TB:73:Ia-1-270

Simon, L. H.
See Y. Y. Kim, WAVES:Sept 74:40

Simon, L. U.
Tall Buildings in Australia -- Construction Trends, TB:73:Ia-4-793

Simon, Richard M.
Analysis of Undrained Behavior of Loads on Clay, with John T. Christian and Charles C. Ladd, GT74:June 74:51
See Robert V. Whitman, SM1:Jan 71:1:7809

Simonds, Andrew Warren
Memoir of, TR:137:1070

Simons, Daryl B.
Predicting Stages on Sand-Bed Rivers, with Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731
TR:139:311
See George R. Alger, HY3:May 68:721:5949
See R. M. Haynie, HY2:Nov 68:1399:6217
See Hai Yain Chang, WW1:Feb 71:155:7869
See Paul H. Blinco, HYB:Aug 73:43
See Michael A. Stevens, HY9:Sept 73:1634:9961
See Saeed A. Rana, HY11:Nov 73:1967:10168
See Ruh-Ming Li, HY11:Nov 73:2145:10109
See Paul H. Blinco, EM2:Apr 74:203:10477

Simonsen, Jens E.
Rapid Concrete Pavement Replaced in 1-1/2 Hours, CE:Apr 74:62

Simonsen, Ole
See Jean-Guy Demers, CE:Aug 71:59

Simpson, B.
See C. P. Wroth, PES:72:I-65

Simpson, C. Christopher
See Geoffrey D. Base, ST12:Dec 71:2920:8557

Sims, James R.
Sims Named to CE Chair at Rice, CE:Apr 74:82

Sinclair, Benito A.
Dsc, Engineers and Society, CE:Nov 70:36
Reflections on My Profession by a Black Civil Engineer, PP3:July 73:357:9884
  TR:139:409
Statement of Affirmative Action Principles, EI3:July 74:183:10688
See Sol E. Cooper, PP3:July 72:431:9075

Sinclair, George R.
Dsc, ST10:Oct 70:2241:7570, of "How Safe Are Your Towers?", ST1:Jan 70:1:6994
See John B. Kennedy, ST8:Aug 69:1645:6721
See Harihar De, ST10:Oct 71:2610:8411

Sinclair, Robert A.
See Krishan P. Singh, HY1:Jan 72:29:8639

Singaraj, N. M.
Nonlinear Elastic Truss Analysis Partitioning, with Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364
  TR:138:562

Singer, Fred S.
Putting Water Resources Research into Practice, CE: June 70:47
  TR:136:448

Singer, Harold J.
What Graduate Students Want From ASCE, PP3: July 73:313:9881
  Dsc: S. R. Mansukhani, EI1:Jan 74:95:10252
  TR:139:381

Singer, Philip C.
Dsc, with Thomas L. Theis, SA5:Oct 72:784:9225, of "Anaerobic Digestion of Sludge Containing Iron Phosphate", SA5:Oct 71:629:8432
See Thomas L. Theis, SA4:Aug 70:1004:7441
See Wayne F. Echelberger, Jr., NSCD:71:563
See Wayne F. Echelberger, Jr., SA5:Oct 71:721:8472

Singer, Victor
Dsc, ST9:Sept 70:1982:7567, of "Estimating Cracking Behavior of Metallic Structures", ST4:Apr 70:773: 7213

Singh, A. K.
Influence of Closely Spaced Modes in Response Spectrum Method of Analysis, with Shih-Lung Chu and Surendra Singh, SDNPF:Dec 73:479

Singh, Awtar
General Stress-Strain-Time Function for Soils, with James K. Mitchell, SM1:Jan 68:21:5728
  Dsc: Laing Barden and Trevor J. Poskitt, SM1: Jan 69:406:6324; Leonard K. Walker, SM1:Jan 69:409:6324
  Clo: SM6:Nov 69:1526:6894
  TR:135:600
Lateral Load Capacity of Piles in Sand and Normally Consolidated Clay, with Richard E-Wei Hu and Robert D. Cousineau, CE:Aug 71:52
  TR:137:515
Shear Strength and Stability of Man-Made Slopes, SM6:Nov 70:1879:7652
  Errata: SM12:Dec 71:1710:8556
  TR:137:167
See T. S. Ramanatha Iyer, SM5:Sept 69:1219:6786
See Kenneth L. Lee, TN: SM7:July 71:1049:8264

Singh, Bhupinder Pal
Membrane Analogy for Anisotropic Cable Networks, with Bhushan Lal Dhoopar, ST5:May 74:1053: 10544

Singh, Harcharan
See Joseph A. Fischer, PES:72:I-997

Singh, Jogeshwar P.
Dsc, SM4:July 69:1118:6643, of "Sand Liquefaction Under Cyclic Loading Simple Shear Conditions", SM3:May 68:689:5957

Singh, Krishan P.
Hydrology of 7-Day 10-Year Low Flows, with John B. Stall, HY12:Dec 74:1753:11013
Theoretical Baseflow Curves, HY6:Nov 69:2029:6905
  Errata: HY9:Sept 70:1901:7497
  TR:136:315
Two-Distribution Method for Flood Frequency Analysis, with Robert A. Sinclair, HY1:Jan 72:29: 8639
  Dsc: Darryl W. Davis, HY9:Sept 72:1730:9156; Richard H. Hawkins, HY10:Oct 72:1885:9222; Lucien Duckstein and Chester C. Kisiel, HY12: Dec 72:2241:9391
  Clo: HY7:July 73:1152:9823
  TR:139:18
Dsc, HY4:Apr 70:1046:7189, of "Daily Streamflow Simulation", HY4:July 69:1163:6665
Dsc, HY7:July 70:1633:7384, of "Data Error Effects in Unit Hydrograph Derivation", HY6:Nov 69: 1899:6887
Dsc, IR3:Sept 71:539:8346, of "Probability Distribution of Annual Droughts", IR4:Dec 70:461: 7727

Singh, M. P.
Probabilistic Treatment of Problems in Nuclear Power Plant Design, with Andrew Morcos and Shih-Lung Chu, SDNPF:Dec 73:263

Singh, Madan M.
Large Scale Triaxial Tests on Rock, with Peter J. Huck, RM14:73:35
Use of Special Cements in Shotcrete, with Seymour A. Bortz, SUSS:July 73:200
What's Ahead in Subsurface Exploration (Closing Remarks), EFSE:Aug 74:387
See Peter J. Huck, EFSE:Aug 74:269

Singh, Pratap
Shape Factors in Irrigation Water Advance Equation, with H. S. Chauhan, IR3:Sept 72:443:9212
  Dsc: Donald I. Norum, IR4:Dec 73:513:10183
  Clo: IR3:Sept 74:389:10771
  TR:139:134
Dsc, with H. S. Chauhan, IR1:Mar 73:111:9581, of "Recession Flow in Surface Irrigation", IR1:Mar 72:77:8764
Dsc, with H. S. Chauhan, IR2:June 73:186:9761, of "Prediction of Irrigation Advance Function by Dimensional Analysis", IR2:June 72:247:8939
Dsc, with Hernanda S. Chaudan, IR4:Dec 74:513: 10975, of "Physical Model Study of Border-Strip Irrigation", IR4:Dec 73:493:10195

Singh, Prem Raj
See Satya P. Garg, HY5:May 71:653:8091

Singh, R.
See W. Karwoski, RM14:73:752

Singh, Ram D.
See Chin-Yung Chang, GT74:June 74:269

Singh, Rameshwar
Double-Mass Analysis on the Computer, HY1:Jan 68:139:5729
  Dsc: Richard H. Hawkins, HY1:Jan 69:477:6323
  Clo: HY5:Sept 69:1719:6784
  TR:135:528

Singh, Sukhmander Singh
Dsc, SM4:July 70:1469:7385, of "Bonding, Effective Stresses and Strength of Soils", SM5:Sept 69:1219: 6786

Singh, Surendra
Three Dimensional Soil-Structure Seismic Analysis Using Finite Elements, with Ramachandran Srinivasan, P. K. Agrawal and Shih-Lung Chu, SDNPF:Dec 73:43
See A. K. Singh, SDNPF:Dec 73:479

Singh, Vijay
See Santosh K. Mahajan, SU2:Nov 71:237:8519

Singh, Vijay P.
Dsc, HY7:July 73:1194:9823, of "University of Cincinnati Urban Runoff Model", HY10:Oct 72:1789:9298
Dsc, HY10:Oct 73:1891:10037, of "Predicting Sediment Yield in Western United States", HY12:Dec 72:2073:9432

Singhota, J. S.
Grout Hole Orientation-Mathematical Solution, SM4:July 69:995:6660
  TR:135:35

Sinha, Kumares C.
Statistical Decision in Forecasting Planning Data, TE4:Nov 72:865:9366
  TR:138:547
See Masatoshi A. Abe, TE1:Feb 73:83:9551

Sinno, Raouf
Bonded Concrete Overlays, with Howard L. Furr, ST8:Aug 70:1627:7450
  Dsc: K. V. Swaminathan and N. K. Jain, ST6:June 71:1808:8159
  Clo: ST1:Jan 72:357:8623
  TR:137:98
Hyperbolic Functions for Prestress Loss and Camber, with Howard L. Furr, ST4:Apr 70:803:7227
  Dsc: Tamirisa V.S.R. Apparao, ST12:Dec 70:2674:7714
  Clo: ST7:July 71:2017:8225
  TR:136:876

Sinnott, Walter B.
Raw Water Transmission System for Springfield, Mass., with Sheldon S.W. Yuan, TE3:Aug 71:459:8312
  TR:137:388

Sipola, J. W.
See C. C. Hanninen, RM14:73:623

Siriyong, Suvit
See Norbert L. Ackermann, HY7:July 71:937:8236

Sirkin, Alan N.
Hurricane Surge Computations by Computer, WW2:May 70:467:7299
  TR:136:1159

Sisler, Fred D.
See Arnold B. Joseph, CEO-II:70:465

Sisodiya, Romy G.
See Amin Ghali, ST11:Nov 74:2307:10968

Sittner, Walter T.
Dsc, HY2:Mar 69:768:6433, of "Synthesizing Daily Discharge From Rainfall Records", HY5:Sept 68:1283:6119

Sitton, Paul L.
Evaluation of National Priorities: The Post Interstate Highway System, UTI:71:3
Introduction to Section II: Innovative Transportation Prototypes, UTI:71:79

Siu, Wilfred W.C.
Some Aspects of Office Design Live Loads, with Niels C. Lind, ST11:Nov 73:2245:10159
  Dsc: Robin K. McGuire, ST9:Sept 74:1972:10772
  TR:139:517
See Mayasandra K. Ravindra, ST9:Sept 74:1789:10779

Sjoberg, A.
See T. Carstens, 12CEC:71:1917

Skaggs, R. Wayne
Irrigation Through Subsurface Drains, with George J. Kriz and Reynaldo Bernal, IR3:Sept 72:363:9183
  TR:138:460

Skermer, Nigel A.
Dsc, SM4:Apr 73:356:9639, of "Stresses and Movements in Oroville Dam", SM7:July 72:653:9016
Dsc, SM8:Aug 73:644:9892, of "Constructional Deformations in Rockfill Dam", SM2:Feb 73:139:9560
See Sidney F. Hillis, SM1:Jan 69:436:6324

Skidmore, James R.
Analytical Plotter System, SU2:Sept 70:253:7559
  TR:136:987

Skidmore, Owings & Merrill
Chestnut-DeWitt Apartments, TB:73:C-P-496
The Chicago Civic Center, TB:73:C-P-492
First Wisconsin Center, TB:73:C-P-494
John Hancock Center, TB:73:C-P-498
One Shell Plaza, TB:73:C-P-488
One Shell Square, TB:73:C-P-490
Sears Tower, TB:73:C-P-500
Tour Apogee, TB:73:C-P-486

Skinner, E. H.
Rock Property Correlation, Crescent Mine, Idaho -- Abstract, with G. G. Waddell, P. C. McWilliams and B. J. Scheibner, RM14:73:754

Skinner, Harry B.
See Marvin M. Johnson, TE4:Nov 71:667:8534

Skinner, John E.
Can Development and Ecology be Reconciled?, CE:Apr 71:67
  Dsc: Development and Ecology, Edward A. Abdun-Nur, CE:Sept 71:67; George R. Berry, Jr., CE:Mar 72:77
  Clo: John E. Skinner, CE:Mar 72:81
  TR:137:315

Skinner, John V.
Dsc, HY1:Jan 69:531:6323, of "Field Test of an X-ray Sediment-Construction Gage", HY2:Mar 68:515:5868

Skinner, Morris M.
See J. Paul Tullis, HY6:Nov 68:1475:6255
See James F. Ruff, HY8:Aug 73:305
See James F. Ruff, HY6:June 74:719:10584

Skinner, Quentin D.
Influence of Summer Use of a Mountain Watershed on Bacterial Water Quality, with John C. Adams and Paul A. Rechard, IRS:Sept 72:57

Skinner, Robert A.
Dsc, PP4:Oct 73:539:10040, of "Nader's Raiders Versus California Water Project", PP1:Jan 73:39:9490

Skjelbreia, Lars
See Yuan Jen, HY11:Nov 73:2135:10109

Sklarew, Ralph C.
Modeling Transportation Impact on Air Quality, with D. Bruce Turner and John R. Zimmerman, UT73:May 73:127

Skogerboe, Gaylord V.
Comparison of Bridge Backwater Relations, with J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
  Dsc: Herman J. Koloseus, HY8:Aug 74:1164:10696
  TR:139:300

Energy Loss Analysis for Open Channel Expansions, HY10:Oct 71:1719:8464
TR:137:829
Generalized Discharge Relations for Cutthroat Flumes, with Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438
TR:138:601
Rectangular Cutthroat Flow Measuring Flumes, with M. Leon Hyatt, IR:Dec 67:1:5628
Dsc: Armando Balloffet, IR3:Sept 68:357:6088; John A. Replogle, IR3:Sept 68:359:6088; T. R. Chandrasekhara, P. J. Dinkar and S. Venkataramana, IR:Sept 68:362:6088; Frederic T. Mavis, IR4:Dec 68:527:6261; August R. Robinson, IR4:Dec 68:529:6261
Clo: IR3:Sept 69:433:6753
TR:135:253
Research Topics for Small Irrigation Structures, with Wynn R. Walker, Brent B. Hacking and Lloyd H. Austin, IR3:Sept 70:309:7542
TR:136:1073
Role of Water Delivery System in Water Quality, IRS:Sept 72:101
Water Management Aspects of Consolidating Irrigation Systems, OIDS:72:293
Dsc, with Lloyd H. Austin and Ray S. Bennett, HY2:Feb 71:362:7863, of "Open Channel Expansions Fitted with Local Hump", HY5:May 70:1105:7257
Dsc, with Wynn R. Walker, HY4:Apr 71:609:8012, of "Flow Analysis of Large Triangular Weit", HY7:July 70:1435:7405
See Gordon H. Flammer, IR1:Mar 70:1:7124
See Lloyd H. Austin, IR3:Sept 71:433:8366
See J. W. Hugh Barrett, HY7:July 73:1043:9841

Skop, Richard A.
See G. J. O'Hara, ST3:Mar 73:590:9583

Skouby, Marion C.
See Charles I. Mansur, SM2:Mar 70:511:7166

Skougaard, Christian
See Ivar G. Jonsson, 12CEC:71:489

Skovgaard, Ove
Refraction Computations for Practical Applications, with Jens Aage Bertelsen, WAVES:Sept 74:761

Skow, Floyd A.
Dsc, CE:Jan 73:84, on In-Line Structure Stores and Treats Combined Overflows, CE:Sept 72:62

Skully, R. P.
Recent Advances in Aircraft Noise Reduction, ASC73:Mar 73:43

Skundric, Lazar I.
Structural Modeling and Analysis of Containment Internal Structures, SDNPF:Dec 73:343

Slack, Donald C.
Deflections of Shallow Pier Foundations, with John N. Walker, SM4:July 70:1143:7391
TR:136:965

Slaughter, Charles W.
See James R. Meiman, HY6:Nov 67:271:5598

Slayton, William L.
Environment by Design, CE:Oct 71:85
Dsc: Philip Clayton, CE:Feb 72:74
TR:137:650

Sleath, John F.A.
Stability of Laminar Flow at Seabed, WW2:May 74:105:10512
Velocities Above Rough Bed in Oscillatory Flow, WW4:Nov 74:287:10930
Wave-Induced Pressures in Beds of Sand, HY2:Feb 70:367:7057
TR:136:466

Slebir, Edward J.
See Michael L. Haverland, RM13:72:107

Slichter, Donald C.
Engineering and Today's Social Problems, CE:Mar 72:64
Dsc: Charles W. Griffin, Jr., CE:May 72:40; Daniel B. Halton, CE:May 72:40; Ray R. Davis, CE:July 72:77; Michael A. Murphy, CE:Aug 72:64; Ernest T. Ianni, CE:Sept 72:61
TR:138:147

Sliepcevich, Cedomir M.
See Hadi T. Hashemi, SM3:Mar 73:267:9630

Sloan, Robert L.
See Orville T. Magoon, CE13:72:II-1571

Slocum, Ray R.
Submerged-Tube Tunnel in Mobile, CE:Aug 72:49
TR:138:368

Slotta, Larry S.
See Tokuo Yamamoto, HYB:Aug 73:155
See Tokuo Yamamoto, WW2:May 74:155:10509
See Tokuo Yamamoto, WW4:Nov 74:345:10944

Small, Gary G.
See L. G. Wilson, HYB:Aug 73:427

Small, Robert J.
See Glen A. Chauvin, PO3:June 70:400:7355
See Richard N. Bergstrom, PO2:Mar 71:367:7977
See James C. Anderson, EPCE:Aug 74:363

Small, Sam W., III
Are Submarine Pipeline Contract Documents That Good?, PITO:74:67

Smalley, I. J.
See J. G. Cabrera, SM5:May 71:802:8083

Smart, John D.
Excavation Quality Control for the NCMC Expansion, with Ronald L. Friestad, RM13:72:643

Smart, Peter
Residual Shear Strength, TN: SM6:Nov 70:2181:7646

Smerdon, Ernest T.
Using Technology to Solve Environmental Problems, with Robert B. Gaither, EI4:Oct 74:273:10847

Smirnoff, Timothy P.
See Surendra K. Saxena, TN: SM10:Oct 73:912:10042

Smit, M.
See R. H. Pitlo, IR3:Sept 70:364:7498

Smith, Alan A.
Computational Procedures For Flow Resistance Laws, HY3:Mar 70:665:7142
TR:136:673

Smith, Anthony F.
See Kazimierz Adamowski, HY11:Nov 72:1935:9353

Smith, Brice R., Jr.
Dsc, CE:June 70:45, on Civil Engineering Today: A Profession in Crisis-Part II, CE:Feb 70:51

Smith, Bryan Stafford
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, with Alexander Coull, TB:73:III-21-157
Hypothesis for Shear Failure of Brickwork, with Clifford Carter, ST4:Apr 71:1055:8029
Dsc: Ganpat S. Pandit, ST12:Dec 71:2922:8557
Clo: ST7:July 72:1662:9003
TR:137:580
See Alexander Coull, TN: ST1:Jan 73:229:9464
See Arthur C. Heidebrecht, ST2:Feb 73:199:9550
See Arthur C. Heidebrecht, ST12:Dec 73:2355:10234

Smith, C. Edwin
See William R. Moore, IR3:Sept 68:321:6126

Smith, C. V., Jr.
Effect of Shear and Load Behavior on Ring Stability, with G. J. Simitses, EM3:June 69:559:6607
  TR:135:30

Smith, Calvin O.
What Have Transit Demonstrations Really Shown?, TE2:May 71:325:8097
  TR:137:338

Smith, Charles E.
See Richard F. Dominguez, ST8:Aug 72:1817:9127
See Tokuo Yamamoto, WW1:Feb 74:35:10321

Smith, Clifford D.
Modified USBR Impact Basin, with Elías M. Korolischuk, TN: HY1:Jan 73:153:9463
Triangular Broad-Crested Weir, with Wen S. Liang, IR4:Dec 69:493:6954
  Dsc: T. R. Chandrasekhara, IR3:Sept 70:364:7498; R. H. Pitlo and M. Smit, IR3:Sept 70:364:7498; Bahaddur S. Rajeevalochanam, IR3:Sept 70:369:7498; M. V. Jagannadha Rao and Nagar S. Lakshmana Rao, IR3:Sept 70:371:7498; Gershon Kulin, IR4:Dec 70:494:7712
  Clo: IR4:Dec 71:637:8553
  TR:136:668
Dsc, HY9:Sept 70:1916:7497, of "Designing Spillway Crests for High-Head Operation", HY3:Mar 70:745:7153
Dsc, IR1:Mar 72:162:8750, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987

Smith, D. R.
Burying Your Pickle Liquor Disposal Problem, CE: Nov 69:37
  TR:135:227

Smith, Daniel J., Jr.
Repair of Earthquake Damaged Underground Reservoir, CO3:Sept 74:449:10825

Smith, Daniel T., Jr.
Research on Safety and Locational Criteria for Bicycle Facilities, BP73:Dec 73:134

Smith, Daniel W.
Computer Design of CMAS Systems, SA4:Aug 70:977:7474
  TR:136:1013

Smith, David
Water Current Meter for Mean Flow Measurements, 12CEC:71:1903

Smith, David D.
See Charles G. Gunnerson, CEO-II:70:249
See Charles G. Gunnerson, SA6:Dec 70:1387:7769

Smith, Douglas V.
Systems Analysis and Irrigation Planning, IR1:Mar 73:89:9625
  Dsc: Phillip Z. Kirpich, IR1:Mar 74:95:10380
  Clo: IR3:Sept 74:393:10771
  TR:139:286
Dsc, SA6:Dec 72:1055:9393, of "Research Needs in Sanitary Engineering", SA2:Apr 72:299:8833

Smith, Dungan J.
See Ronald E. Nece, WW2:May 70:335:7280

Smith, E. C.
Plastic Liners for CANDU Containment Structures, ST10:Oct 71:2583:8435
  Dsc: Allan H. Wern, ST3:Mar 72:782:8752; Chen Pang Tan, ST5:May 72:1210:8861
  Clo: ST11:Nov 72:9307
  TR:137:1032

Smith, Frank A.
See Leonard Ortolano, PO1:July 74:15:10649

Smith, Frederick A., Jr.
Torsion Analysis of Heavy Box Beams in Structures, with Francis M. Thomas and James O. Smith, ST3:Mar 70:613:7165
  TR:136:842

Smith, G. G.K.
Consturction Practices in the U.K., TB:73:Ia-4-816

Smith, Garrison P.
See Arnim H. Meyburg, TE4:Nov 74:791:10914

Smith, Gerald M.
Seismic and Cyclonic Response of Continuous Frames, with George C. Ernst and Mahendra Maheshwari, ST2:Feb 74:391:10355

Smith, Gerald S.
See Stanley A. Knudson, EM6:Dec 70:1039:7775

Smith, Harman F.
Effect of Urban Development on Flood Discharges, HY1:Jan 69:287:6355
  Dsc: Kenneth V. Wilson, HY6:Nov 69:2190:6866
  Clo: HY7:July 70:1608:7384
  TR:135:199

Smith, Hudson W.
Managua Earthquake: Lessons Learned, CE:Sept 74:102

Smith, Hugh A., Jr.
Spillway Redesign Abates Gas Supersaturation in the Columbia River, CE:Sept 74:70

Smith, Ian M.
Stress Analysis of Contractive or Dilative Soil, with Stephen Kay, SM7:July 71:981:8263
  Dsc: Chandrakant S. Desai, SM2:Feb 72:238:8683
  Clo: 1972
  TR:137:723
Dsc, SM2:Mar 69:683:6429, of "Finite Element Method Applied to Some Problems in Soil Mechanics", SM2:Mar 68:473:5864
Dsc, EM4:Aug 71:1302:8266, of " Finite Element Bending Analysis of Reissner Plates", EM6:Dec 70:967:7760

Smith, J. C.
Field Analysis of Torsionless Bridge Grids, with Donald L. Dean, ST9:Sept 73:1837:10031
  TR:139:464
See Hota V.S. GangaRao, EM3:June 72:679:8993
See Abdel-Aziz I. Kashef, HY3:Mar 74:485:10379

Smith, J. M.
See J. G. Terrill, SA3:June 69:545:6620

Smith, Jack E.
See James M. Corum, ST2:Feb 69:229:6419

Smith, James L.
Suppression of Evaporation Losses from Snowpacks, with Howard G. Halverson, IAWM:72:5

Smith, James O.
See Franklin J. Appl, EM2:Apr 68:549:5897
See Frederick A. Smith, Jr., ST3:Mar 70:613:7165

Smith, Jay L.
See Richard B. Fallgren, PO1:July 74:1:10652

Smith, Jimmy H.
Nonlinear Beam and Plate Elements, ST3:Mar 72:553:8768
  TR:138:158

Smith, John W.
Design of Browns Ferry Chimney, with Asgeir Jonsson, PO3:June 70:437:7359
  TR:136:1127

Smith, Kenneth N.
Dsc, ST11:Nov 71:2767:8485, of "Fatigue Strength of Hybrid Plate Girders", ST4:Apr 71:1203:8069

Smith, Kenneth V.H.
Alluvial Channel Resistance to Bed Form, HY1:Jan 68:59:5720
  Dsc: John G. Herbertson, HY1:Jan 69:473:6323; Fuat Senturk, HY1:Jan 69:475:6323
  Clo: HY5:Sept 69:1718:6784
  TR:135:515
Computer Programming for Flow Over Side Weirs, HY3:Mar 73:495:9626
  Dsc: A. Osman Akan, HY3:Mar 74:489:10379
  Clo: HY11:Nov 74:1722:10898
  TR:139:240
Similarity in Unlined Irrigation Canal Systems, HY1: Jan 70:13:6993
  Dsc: Thomas Blench, HY10:Oct 70:2126:7568
  Clo: HY5:May 71:728:8081
  TR:136:366
See Mahmoud Faisal Rifai, HY5:Sept 69:1747:6784
See Mahmoud Faisal Rifai, HY7:July 71:963:8246
See Christopher John Pratt, HY5:May 72:859:8912

Smith, Peter
Quick Quality Testing of Concrete, CE:Aug 70:52
  TR:136:621

Smith, Peter G.
Automatic Design Of Shell Structures, with Edward L. Wilson, EC5:70:289
Automatic Design of Shell Structures, with Edward L. Wilson, ST1:Jan 71:191:7825
  Dsc: J. Laginha Serafim, ST11:Nov 71:2761:8485
  Clo: ST6:June 72:1327:8930
  TR:137:490

Smith, Raymond C., Jr.
See Warren C. Thompson, WAVES:Sept 74:338

Smith, Raymond J.
See Melvin C. Hironaka, SM6:Nov 69:1431:6921
See R. A. Erchul, CEO-II:70:621

Smith, Reginald G.
See Donald H. Orme, EC5:70:645
See Donald H. Orme, ST1:Jan 71:393:7840

Smith, Richard
See Krishnaswamingar Keshavan, CEE:Feb 74:1-121

Smith, Richard A.
Management Structure for Irrigation, IR4:Dec 70: 475:7722
  Dsc: Robert L. McFall, IR3:Sept 71:538:8346
  Clo: IR2:June 72:326:8926
  TR:137:498
Dsc, CE:Apr 70:74, on Engineers and the Public Press, CE:Dec 69:31

Smith, Robert
Preliminary Design of Wastewater Treatment Systems, SA1:Feb 69:117:6426
  Errata: SA6:Dec 69:1202:6931
  TR:135:246
See Joseph F. Roesler, SA3:June 71:269:8182

Smith, Robert D.
Parameters Necessary for Analyzing Thermal Bioassays, SA6:Dec 72:973:9440
  TR:138:569

Smith, Robert E.
See Lymon C. Reese, SM1:Jan 70:235:7032

Smith, Robert J.
A Short Course for Inexperienced Construction Engineers, CEE:Feb 74:1-890

Smith, Roger E.
Border Irrigation Advance and Ephemeral Flood Waves, IR2:June 72:289:8979
  TR:138:370
Rainfall Excess Model from Soil Water Flow Theory, with Donald L. Chery, Jr., HY9:Sept 73:1337:9990
  Dsc: Cheng-lung Chen, HY9:Sept 74:1277:10770
  TR:139:357
Dsc, with Leonard J. Lane, HY5:May 71:749:8081, of "Calibration of Walnut Gulch Supercritical Flumes", HY8:Aug 70:1681:7479
Dsc, IR3:Sept 71:544:8346, of "A Proposed Watershed Retention Function", IR1:Mar 71:193: 7979
Dsc, IR3:Sept 73:404:9962, of "Subsurface Hydrograph Analysis by Convolution", IR3:Sept 72:405:9213

Smith, Ronald E.
Consolidation Under Constant Rates of Strain, with Harvey E. Wahls, SM2:Mar 69:519:6452
  Dsc: Peter M. Byrne, SM1:Jan 70:6989; R. T. Murray, SM1:Jan 70:6989
  Clo: SM1:Jan 71:238:7785
  TR:136:45
Guide for Depth of Foundation Exploration, SM2: Mar 70:377:7120
  Dsc: Jean-Pierre Giroud, SM6:Nov 70:2140:7643
  TR:136:778

Smith, Scott S.
See Kandiah Arulanandan, SM12:Dec 73:1113:10235

Smith, Travis
Potrero Hill Slide and Correction, with Raymond H. Forsyth, SM3:Mar 71:541:8004
  TR:137:409
Dsc, with Raymond H. Forsyth, CE:Aug 69:62, on External 'Shell' Stops Soil Movement and Saves Tunnel, CE:Apr 69:72

Smith, Verne E.
Elevation Dependent Model for Estimating Annual Runoff, with Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245
  Dsc: Max Beran, HY12:Dec 74:1843:10974
  TR:139:496

Smith, Waldo H.
Dsc, DSC, Moscow Subways, CE:Jan 72:72

Smith, Wayne S.
See Chih-Kang P. Shen, SM1:Jan 73:95:9510

Smith, Wilbur S.
Transportation-Role for Civils, TE1:Feb 69:111:6414
  Dsc: Roy W. Morse, TE4:Nov 69:705:6868
  TR:135:987

Smith, William L.
Quantifying Impact of Transportation Systems, UP1: Mar 74:79:10416
  Dsc: Peter M. Lima, UP2:Nov 74:205:10902

Smith, Winchell
See Thomas S. Chandler, HY9:Sept 71:1461:8390

Smolenski, Chester P.
Optimal Multifactor Design Procedure for Sandwich Panels, with Edward M. Krokosky, ST4:Apr 70: 823:7243
  Dsc: Jan L. van der Molen, ST2:Feb 71:727:7867
  TR:136:1249

Smoot, George F.
Are Individual Current-Meter Ratings Necessary, with Rolland W. Carter, HY2:Mar 68:391:5848
  Dsc: Russell R. Schoof and Frank R. Crow, HY6: Nov 68:1596:6200; John L. French, HY1:Jan 69:507:6323
  Clo: HY5:Sept 69:1727:6784
  TR:135:573

Smutek, R.
Dsc, HY1:Jan 69:519:6323, of "Measurement of Turbulence in Water", HY2:Mar 68:411:5855

Dsc, HY4:Apr 71:614:8012, of "Distribution of Tractive Force in Open Channels", HY7:July 70: 1469:7415

Smyers, Daniel J.
Civil Engineer's Compensation - ASCE's Future, PP4:Oct 72:557:9226
  Dsc: David Allen, PP3:July 73:415:9824
  Clo: EI2:Apr 74:173:10438
  TR:139:50

Sneddon, John
See Bruce W. Golley, SU2:Nov 74:115:10938

Snell, Jack E.
Research Needs in Air Transportation by the Committee on Research of the Aero Space Division, TE1:Feb 70:45:7091
  Dsc: William R. DeKeyser, TE4:Oct 70:656:7642
  TR:136:1214

Snell, Luke M.
Dsc, EI1:Jan 74:95:10252, of "ASCE and Graduate Students: Faculty Advisor's Opinion", PP3:July 73: 307:9882
Dsc, CO4:Dec 74:657:10970, of "Bridge Construction Surveying", CO2:June 74:105:10602

Snell, Robert R.
See Peter B. Cooper, ST3:Mar 72:611:8791

Snethen, Donald R.
See T. Allan Haliburton, TE2:May 72:325:8870

Snider, Robert H.
See Basil W. Wilson, WAVES:Sept 74:87

Snoderly, Murphy Ulysses
Memoir of, TR:136:1369

Snodgrass, Delos V.
See William L. Galligan, ST12:Dec 70:2639:7772

Snoeyink, Vernon L.
Dsc, with Richard I. Dick, SA2:Apr 72:464:8800, of "Batch Adsorption Kinetics in Sewage--Activated Carbon", SA4:Aug 71:505:8339

Snook, Randy W.
See Robert W. Mikitka, EPCE:Aug 74:41

Snow, Bayard F.
Dsc, CE:Apr 74:22, on Better Storm Drainage Facilities at Lower Cost, CE:Oct 73:67

Snow, David T.
Rock Fracture Spacings, Openings, and Porosities, SM1:Jan 68:73:5736
  Dsc: Adam Clive Houlsby, SM1:Jan 69:416:6324; Robert A. Scott, SM1:Jan 69:417:6324; Walter Wittke, SM1:Jan 69:419:6324
  Clo: SM3:May 69:880:6525
  TR:135:620

Snyder, Franklin F.
Dsc, HY7:July 70:1626:7384, of "Urban Runoff by Road Research Laboratory Method", HY6:Nov 69: 1809:6878

Snyder, Julian
See Subhash C. Anand, ST1:Jan 73:145:9513

Snyder, Monroe B.
Regulations for Pedestrian and Bicycle Safety: Why, Who, What and How to Regulate, BP73:Dec 73: 553

Snyder, Willard M.
A Proposed Watershed Retention Function, IR1:Mar 71:193:7979
  Dsc: Roger E. Smith, IR3:Sept 71:544:8346
  Clo: IR2:June 72:328:8926
  TR:137:343
Subsurface Hydrograph Analysis by Convolution, with Loris E. Asmussen, IR3:Sept 72:405:9213
  Dsc: Roger E. Smith, IR3:Sept 73:404:9962
  Clo: IR2:June 74:203:10568
  TR:139:146
See William C. Mills, IR1:Mar 71:51:7955

Soane, Alastair J.M.
Old Hall Street Development -- Liverpool, TB:73:C-P-231

Sobey, Rodney J.
Jet-Forced Circulations in Water-Supply Reservoirs, with Stuart B. Savage, HY12:Dec 74:1809:11026
See Paul Minton, HY1:Jan 73:1:9468

Sobieszczanski, Jaroslaw
Structural Modification by Perturbation Method, ST12:Dec 68:2799:6268
  TR:135:817
Dsc, ST8:Aug 69:1778:6707, of "Techniques for Analysis of Large Structures", ST11:Nov 68:2521: 6233

Sobsey, Mark D.
Virus Removal and Inactivation by Physical-Chemical Waste Treatment, with Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3: June 73:245:9778
  TR:139:133

Sofronie, Ramiro
Tall Buildings Elastically Coupled, TB:73:Ia-3-637

Sogge, Robert L., A.M.
See Alan J. Esser, ST11:Nov 74:2349:10899

Sokal, Yehuda
See Ephraim Spira, ST8:Aug 70:1799:7442

Sokolov, A. G.
Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, TB:73:Ia-3-603

Sokolov, B. I.
Numerical Methods of Investigation into Stratified Flows, ISSF:Aug 72:659

Sokolowski, Edward H.
New ASCE Officers Installed in Kansas City: 1974, CE:Oct 74:92
Photogrammetry for Right-of-Way Acquisitions, SU1: Jan 68:49:5735
  Dsc: Gurdon H. Wattles, SU2:Sept 68:293:6091
  TR:135:629

Solanki, Himat T.
Dsc, ST4:Apr 74:827:10442, of "Tests of Concrete Columns in Torsion", ST7:July 73:1409:9850
Dsc, EM5:Oct 74:1058:10837, of "Open-Channel Flow Equations Revisited", EM5:Oct 73:979:10073
Dsc, ST12:Dec 74:2529:10977, of "Torsional Strength of Prestressed Concrete Beams", ST5:May 74:881:10545
Dsc, ST12:Dec 74:2530:10977, of "Prestressed Beams in Torsion, Bending, and Shear", ST5:May 74:933:10560

Soler, Alan I.
Transverse Elastic Buckling of Plane Pipe Gridworks, with Hooshang Afshari, TN: ST4:Apr 74:837:10456
See Steven C. Batterman, TN: EM6:Dec 70:1291: 7715

Soliman, Mostafa M.
Flow Around 180 Degree Bends in Open Rectangular Channels, with E. Roy Tinney, HY4: July 68:893:6027
  Dsc: B. S. Thandaveswara, HY2:Mar 69:729:6433; T. R. Chandrasekhara and P. J. Dinkar, HY3: May 69:1064:6524
  Clo: HY1:Jan 70:257:6988
  TR:135:650

Dsc, HY4:July 68:1159:6015, of "Steady and Unsteady Flow Towards Gravity Wells", HY6:Nov 67:135:5581
Dsc, IR1:Mar 72:153:8750, of "Rational Design of Wall Screens", IR1:Mar 71:131:7969

Sollitt, Charles K.
Wave Transmission Through Permeable Breakwaters, with Ralph H. Cross, III, CE13:72:III-1827
See Eugene P. Richey, CEO-II:70:903
See Eugene P. Richey, WW3:Aug 70:643:7468
See Ralph H. Cross, III, WW3:Aug 72:295:9137

Sollo, Frank W.
Status of Methods for Halogen Determination (Br-Cl), with Florence F. McGurk and Thurston E. Larson, NSCD:71:245
See Thomas Micka, TN: EE6:Dec 73:971:10186

Solnes, Julius
Along-Wind Response of Large Bluff Buildings, with Ragnar Sigbjornsson, ST3:Mar 73:381:9585
  TR:139:232

Soltis, Lawrence A.
Finite Deformation of Biaxially Loaded Columns, with Paul P. Christiano, ST12:Dec 72:2647:9407
  Dsc: Robert Hutchings, ST11:Nov 73:2313:10113; Sundaramoorthy Rajasekaran and David W. Murray, ST11:Nov 73:2315:10113
  Clo: ST8:Aug 74:1705:10697
  TR:139:158

Somasundaram, M. V.
See Ramaswamy Sakthivadivel, HY3:Mar 70:855:7113
See Ramaswamy Sakthivadivel, HY7:July 70:1621:7384

Somes, Norman F.
Compression-Tests on Hoop-Reinforced Concrete, ST7:July 70:1495:7417
  Dsc: K.T. Sundara Raja Iyengar, Prakash Desayi and K. Nagi Reddy, ST3:Mar 71:1003:7944; Satyendra K. Ghosh, ST3:Mar 71:1005:7944
  Clo: ST11:Nov 71:2756:8485
  TR:137:58
Progressive Collapse Risk, TB:73:Ib-8-727

Sommerfeld, William F.
See Niles O. Sutphin, UP1:Apr 71:63:8055

Sommerschield, H. F.
See Wm. Campbell Graeub, CE:May 69:39

Sommet, Jean
The Added Mass of a Ship in Longitudinal Oscillation, BMS:71:174
  Dsc: Basil W. Wilson, BMS:71:207; Robert C. H. Russell, BMS:71:207
Elastic Characteristics of Moorings, BMS:71:93
  Dsc: Jean Sommet, BMS:71:143
Dsc, BMS:71:143, of "Elastic Characteristics of Moorings", BMS:71:93

Song, Charles C.S.
Stochastic Analysis of Air and Water Temperatures, with Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209
  TR:139:522
See Bahram Mozayeny, HY3:May 69:877:6561

Sonnen, Michael B.
Quality Related Costs of Regional Water Users, HY10:Oct 73:1849:10076
  Dsc: Dennis P. Tihansky, HY9:Sept 74:1287:10770
  TR:139:423
Dsc, HY8:Aug 74:1187:10696, of "Need for Metropolitan Water Balance Inventories", HY10:Oct 73:1837:10078

Sonnichsen, John C., Jr.
Consideration of Torsional Moment In Design of a Floating Structure, WW1:Feb 69:35:6399
  Clo: WW1:Feb 70:154:7049
Examination of the Thermocline, with Clarence A. Oster, SA2:Apr 70:353:7219
  Dsc: Yu-Leuk Choi, SA6:Dec 70:1455:7713; Earl E. Eiker and John Eric Edinger, SA1:Feb 71:116:7865
  Clo: SA5:Oct 71:257:8409
  TR:137:31
Lateral Spreading of Heated Discharge, PO3:July 71:623:8245
  TR:137:246
See George F. Bailey, PO1:June 72:175:8927
See D. E. Peterson, PO1:May 73:193:9736

Sontag, Hansjurgen
Precast Composite Flooring, State-of-Art Report 10, TB:73:Ia-3-591

Sonu, Choule J.
Measurement of Swash Profile and Orbital Motion on the Beach, with Neal Pettigrew and Rodney G. Fredericks, WAVES:Sept 74:621
Stochastic Analysis of Beach Profile Data, with Myron H. Young, 12CEC:71:1341

Sonzogni, William C.
Diversion of Wastewater from Madison Lakes, with G. Fred Lee, EE1:Feb 74:153:10318

Sooky, Attila A.
Longitudinal Dispersion in Open Channels, HY4:July 69:1327:6697
  Errata: HY6:June 70:1357:7310
  TR:135:26

Soong, Tsai-Chen
Column Supported by Side-Beams, EM6:Dec 73:1217:10238
  TR:139:540

Soper, Ellis Clarke
Memoir of, TR:136:1371

Sorensen, Kenneth E.
Economic Planning for Staged Development, with Robert D. Jackson, HY5:Sept 68:1231:6114
  Dsc: Frederick L. Hotes, HY2:Mar 69:762:6433; Sue-Whei Hsu, HY3:May 69:1089:6524; L. Douglas James and Dennis H. Bianchi, HY4:July 69:1470:6641
  Clo: HY2:Feb 70:582:7045
  TR:135:779
Fourth Dimension for Urban Environment, UP1:Apr 71:91:8064
  TR:137:893
The Future of Pumped Storage Generation in the Nuclear Power Age, CE:Mar 69:66
  TR:135:168
Reinforcing Steel for Penstock Wye Branch, PO2:Oct 69:217:6830
  TR:136:163

Sorensen, Robert M.
Effects Of Pile Roughness On Wave Forces On Piles, with William J. Burton, CE0-II:70:441
Two-Dimensional Wind Set-Up of Oil on Water, with Edmund B. Spencer, WW3:Aug 71:517:8326
  TR:137:1020
Water Waves Produced by Ships, WW2:May 73:245:9754
  TR:139:345
Waves Generated By Model Ship Hull, WW4:Nov 69:513:6910
  TR:136:733
See E. Clark McNair, 12CEC:71:415
See Donald R. Wells, 12CEC:71:1263
See Pierce L. Chandler, Jr., CE13:72:I-385
See Curtis Mason, CE13:72:II-781

Sorensen, Torben
See Mogens Dyhr-Nielsen, 12CEC:71:855

See J. Kirkegaard Jensen, CE13:72:II-1097

Soretz, Stefan
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, with Helmut Holzenbein, TB:73:III-24-701

Sorey, Michael L.
Evaporation from an Ephemeral Streambed, with William G. Matlock, HY1:Jan 69:423:6368
Dsc: Kenneth G. Renard, HY6:Nov 69:2200:6866
Clo: HY6:June 70:1354:7310
TR:135:110

Soriano, Antonio
See Raymond J. Krizek, IR2:June 73:169:9807

Sornberger, G. Clinton
Simulation of Dissolved Oxygen Profile, with Krishnaswamingar Keshavan, EE4:Aug 73:479:9943
TR:139:275
See Krishnaswamingar Keshavan, EE5:Oct 73:569:10045

Soros, Paul
Port Latta--Open Sea Loading Terminal, CE:Jan 69:62
TR:135:11

Sosewitz, Ben
Tertiary Wastewater Treatment-On Its Way, with Vinton W. Bacon, CE:Nov 69:34
TR:135:1002

Soucek, Edward
Dsc, WW2:May 70:579:7252, of "Surge Problems in Canals with High-Lift Locks", WW2:Nov 69:467:6898
Dsc, HY6:June 70:1380:7310, of "Linear Proportional Weirs", HY2:Feb 70:379:7062

Soulie, Michel
See Stephen J. Windisch, SM4:July 70:1113:7389

Soussou, Joseph
Statistical Theory for Viscoelastic Materials, with Fred Moavenzadeh, EM5:Oct 72:1205:9289
TR:138:532
See Hani Findakly, TE1:Feb 74:57:10358

Sowell, Florentine
See Arthur Saltzman, TE4:Nov 72:855:9369

Sowers, George Bloomer
Memoir of, TR:138:640

Sowers, George F.
Changed Soil and Rock Conditions in Construction, CO2:Nov 71:257:8509
Dsc: Edward A. Abdun Nur, CO2:Sept 72:362:9155; William G. Thorpe, CO2:Sept 72:363:9155
Clo: CO1:July 73:207:9822
TR:139:84
Education of Engineering Students to become Engineers, CEE:Feb 74:1-320
Landslides in Weathered Volcanics in Puerto Rico, 4PCSM:71:II105
Remote Sensing for Water Resources, CE:Feb 73:35
TR:139:49
Dsc, SM5:May 71:794:8083, of "Review of Shearing Strength of Rockfill", SM4:July 70:1159:7394
See Harold T. Whitney, 4PCSM:71:II139
See L. David Wheeless, PES:72:I-939

Soydemir, Cetin
Deformation and Stability of Viscoelastic Soil Media, with Werner E. Schmid, SM6:Nov 70:2081:7708
Dsc: Harry G. Poulos and L. P. de Ambrosis, SM7:July 71:1040:8224
TR:137:849

Sozen, Mete A.
See D. S. Hatcher, ST6:June 69:1051:6585
See William L. Gamble, ST6:June 69:1073:6586
See M. Daniel Vanderbilt, ST6:June 69:1097:6587
See James O. Jirsa, ST6:June 69:1117:6588
See Tsuruzo Takeda, ST2:Dec 70:2557:7759
See Alex E. Cardenas, ST11:Nov 72:2587:9368
See Shunsuke Otani, ST3:Mar 74:687:10435
See A. Emin Aktan, ST10:Oct 74:1999:10864

Span, H. J. Th.
See K. d'Angremond, 12CEC:71:1601

Spangler, Merlin G.
Structural Design of Pipeline Casing Pipes, PL1:Oct 68:137:6194
TR:136:1175

Spanovich, Milan
Dsc, with Richard Fewell, SM5:Sept 70:1808:7499, of "Building Damage From Expansive Steel Slag Backfill", SM6:Nov 69:1325:6879
Dsc, with Richard Fewell, PISST:71:247, of "Building Damage from Expansive Steel Slag Backfill", PISST:71:235

Spark, Howard G.
The Development of a New Borehole Extensometer -- Abstract, RM14:73:756

Sparks, Robert
See Thomas H. Hanna, SM11:Nov 72:1187:9338

Spates, Kenneth R.
See Conrad P. Heins, Jr., ST7:July 70:1511:7420

Speece, Richard E.
Design of U-Tube Aeration Systems, with Rudolph Orosco, SA3:June 70:715:7348
Errata: SA2:Apr 71:233:8013
TR:136:951
Downflow Bubble Contact Aeration, with Marcos Madrid and Kenneth Needham, SA4:Aug 71:433:8278
TR:137:760
U-Tube Aeration Operating Characteristics, with Jack L. Adams and Carolyn B. Wooldridge, SA3:June 69:563:6621
TR:135:69

Spence, James C.
Book Review: A Complete Guide To Fire And Buildings, CE:July 73:30

Spencer, Edmund B.
See Robert M. Sorensen, WW3:Aug 71:517:8326

Spencer, Eric
Circular and Logarithmic Spiral Slip Surfaces, SM1:Jan 69:227:6361
Dsc: Wai F. Chen, SM1:Jan 70:324:6989; Icarahy DaSilveira, SM1:Jan 70:326:6989
Clo: SM4:July 70:1466:7385
TR:135:960
Effect of Tension on Stability of Embankments, SM5:Sept 68:1159:6127
Dsc: Richard H. Hawkins, IR:Sept 69:353:6581
Clo: IR1:Mar 70:91:7114
TR:135:885

Spencer, Graham K.
See Peter J. Moore, SM3:May 69:769:6547
See Peter J. Moore, SM11:Nov 72:1225:9360

Spencer, James R.
See Charles A. Bower, IR1:Mar 69:55:6437
See Sterling J. Richards, IR4:Dec 73:457:10243

Spencer, Jim
See David Brenchley, CE:Mar 73:83

Spencer, Ralph E.
Black People Call for ASCE Social Action, CE:Dec 69:73
Dsc: T. H. Evans, CE:Mar 70:42; Frank T. White, CE:Mar 70:42; Harold M. Maxwell, CE:Mar 70:42; Robert Kiehl, CE:Mar 70:53; Edward P. Lewis, CE:Mar 70:42; William E. Dunn, CE:Apr 70:49; ASCE's Response to the Spencer Proposals, CE:Aug 70:46; ASCE and Social Problems, Delon Hampton, CE:Jan 71:45; ASCE and Social Problems, Frederick E. Jordan, CE:Jan 71:45

Speranskaya, A. A.
See E. P. Anisimova, ISSF:Aug 72:475

Sperry, Pierrepont E., Jr.
Summary of the Conference, SUSS:July 73:441

Sperry, Samuel A.
Tax Allocation Bonds in California, UP2:Sept 73:147:9991
TR:139:445

Spicka, Ivan
Dsc, SA4:Aug 69:795:6706, of "Design of Sludge Digestion Tanks", SA5:Oct 68:769:6137

Spiegel, Milton
Phosphate Removal: Summary of Papers, with Tom H. Forrest, SA5:Oct 69:803:6807
Dsc: Carl Beer, SA2:Apr 70:647:7190; Thomas L. Theis, Philip C. Singer, Wayne F. Echelberger, Jr. and Mark W. Yenney, SA4:Aug 70:1004:7441
Clo: SA2:Apr 71:228:8013
TR:136:89

Spiegler, D. B.
See Eugene J. Aubert, IR1:Mar 72:49:8787

Spielberg, Franklin
See Davit Fresko, UP1:July 72:1:9017

Spiller, Larry N.
Engineer Firms Face Unionization, CE:Apr 71:49
Dsc: Engineers and Unionization, Richard Schindler, CE:Aug 71:38
TR:137:279

Spillers, William R.
On Adaptive Structural Design, with Lewis Friedland, ST10:Oct 72:2155:9245
TR:138:480
Techniques for Analysis of Large Structures, ST11:Nov 68:2521:6233
Dsc: William H. Rowan, Jr. and Thomas S. Tarpy, Jr., ST7:July 69:1589:6644; Joseph F. Gloudeman and George von Fuchs, ST8:Aug 69:1776:6707; Jaroslaw Sobieszczanski, ST8:Aug 69:1778:6707
Clo: ST2:Feb 70:414:7047
TR:135:727

Spinner, Bernard H.
Eads Bridge Repaired by Jacking, CE:June 71:50
TR:137:423

Spira, Ephraim
Dsc, with Yehuda Sokal, ST8:Aug 70:1799:7442, of "New Rectangular Finite Element for Shear Wall Analysis", ST3:Mar 69:399:6464
Dsc, with Jacob Gluck, ST6:June 72:1339:8930, of "Earthquake Design Formula Considering Local Soil Conditions", ST9:Sept 71:2383:8399

Spiro, R. P.
Dsc, CE:Dec 70:54, on Ecological Values and Regional Planning, CE:Aug 70:40

Spivak, Eldad
See Yerachmiel Argaman, EE5:Oct 73:703:10050

Spivey, David A.
Construction Solid Waste, CO4:Dec 74:501:10993
Envirionment and Construction Management Engineers, CO3:Sept 74:395:10804

Spofford, Walter O., Jr.
See Daniel P. Loucks, EE6:Dec 73:813:10202

Spomer, Ralph G.
See Keith E. Saxton, HY11:Nov 71:1835:8523
See Keith E. Saxton, IAWM:72:165

Spooner, James E.
Probilistic Estimating, CO1:Mar 74:65:10406
Dsc, CO2:Nov 71:345:8482, of "Bidding With Competitive Strategy Models", CO1:Mar 71:113:8008

Spranza, Joseph J.
Seasonal Deformation of 2-Mile Straight Line, with Amos M. Nur, SM12:Dec 71:1623:8586
TR:137:962

Springfield, John
Aspects of Column Design in Tall Steel Buildings, with Peter F. Adams, ST5:May 72:1069:8911
TR:138:258
Codes and Model Testing, TB:73:Ib-7-431
Dsc, ST8:Aug 70:1824:7442, of "Inelastic Analysis of Multistory Multibay Frames", ST11:Nov 69:2477:6922
Dsc, with Peter F. Adams, ST11:Nov 70:2528:7644, of "Plastic Design of Multistory Frames by Computer", ST1:Jan 70:17:6995
Dsc, ST2:Feb 72:523:8684, of "Strength of Load-Bearing Masonry Walls", ST5:May 71:1593:8143

Sprinkle, Howard B.
Analysis of Time-Lapse Construction Films, CO2:Sept 72:183:9190
Errata: CO1:July 73:223:9822
TR:139:265

Sproul, Otis J.
Salt and Virus Inactivation by Chlorine and High pH, with Robert T. Thorup, David F. Wentworth and James S. Atwell, NSCD:71:385
See Dirk R. Brunner, SA2:Apr 70:365:7220

Spunt, Leonard
Optimization of Redundant Prestressed Structuree, ST12:Dec 70:2589:7755
Dsc: Manhar C. Thakkar and Jawalker K. Sridhar Rao, ST7:July 71:2028:8225; S. Venkateswara Rao and P. Dayaratnam, ST9:Sept 71:2431:8348
Clo: ST4:Apr 72:933:8802
TR:137:867

Squarer, David
Friction Factors and Bed Forms in Fluvial Channels, HY4:Apr 70:995:7245
Errata: HY4:Apr 71:586:8012
TR:136:726
Dsc, HY10:Oct 71:1775:8407, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams", HY1:Jan 71:101:7786

Squier, L. Radley
Load Transfer in Earth and Rockfill Dams, SM1:Jan 70:213:7004
TR:136:414
Mat Foundation Spans Rubble Channels, CE:Aug 70:61
TR:136:625

Squire, William
Dsc, EM5:Oct 71:1589:8406, of "Directional Analysis in Model Design", EM2:Apr 71:519:8053

Sreenivasulu, P.
Linear Proportional Weirs, with R. Raghavendran, HY2:Feb 70:379:7062
  Dsc: Edward Soucek, HY6:June 70:1380:7310; Frederic T. Mavis, HY8:Aug 70:1773:7439; Nagar S. Lakshmana Rao and D. Chandrasekaran, HY10:Oct 70:2150:7568; K. Keshava Murthy and N. Seshagiri, HY12:Dec 70:2628:7711
  Clo: HY10:Oct 71:1749:8407
  TR:136:892
See Valupadas Murahari, HY4:July 68:1153:6015

Sridharan, Asuri
New Approach to Multistage Triaxial Test, with Savaram Narasimha Rao, TN: SM11:Nov 72:1279:9312
Pore Size Distribution Studies, with Adolph G. Altschaeffl and Sidney Diamond, SM5:May 71:771:8151
  Dsc: Roland Pusch, SM1:Jan 72:135:8622
  Clo: SM7:July 72:770:9002
  TR:137:640
Dsc, with Guda Venkatappa Rao, SM6:June 71:940:8158, of "Mechanisms Controlling Compressibility of Clays", SM6:Nov 70:1863:7649

Sridharan, Kalambur
See Nagar S. Lakshmana Rao, HY4:Apr 70:1093:7189
See Nagar S. Lakshmana Rao, HY1:Jan 71:55:7796
See Nagar S. Lakshmana Rao, HY5:May 72:958:8859
See Nagar S. Lakshmana Rao, HY11:Nov 72:2015:9370

Sridharan, S.
See Madasamy Arockiasamy, ST1:Jan 73:206:9462
See S. R. Srinivasan, ST2:Feb 74:472:10306

Sridhar Rao, Jawalker K.
Dsc, ST7:July 69:1572:6644, of "Probabilistic Structural Analysis and Design", ST7:July 68:1665:6019
Dsc, with V. K. Kapur and C. V.S. Kameswara Rao, EM6:Dec 71:1750:8551, of "Optimal Multifunctional Material Systems", EM2:Apr 71:559:8077
Dsc, with Bakul S. Bulsari and Manhar C. Thakkar, ST5:May 72:1198:8861, of "Optimum Beam Layout for Large Areas", ST8:Aug 71:2085:8304
See P. Paramasivam, ST6:June 69:1313:6635
See P. Paramasivam, ST9:Sept 69:1981:6755
See C. V.S. Kameswara Rao, ST12:Dec 69:2990:6932
See Manhar C. Thakkar, TN: ST3:Mar 70:751:7118
See C. V.S. Kameswara Rao, EM2:Apr 70:169:7188
See N. Gopalakrishnan, ST4:Apr 70:853:7191
See Manhar C. Thakkar, ST8:Aug 70:1837:7442
See Manhar C. Thakkar, ST7:July 71:2028:8225
See N. M. Singaraj, ST11:Nov 72:2399:9364

Srinivas, S.
Flexure Of Thick Rectangular Viscoelastic Plates, with A. K. Rao, TN: EM3:June 72:763:8931

Srinivasan, C. N.
Dsc, ST4:Apr 69:780:6486, of "Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steel of Joint ASCE-AASHO Committee on Steel Flexural Members", ST9:Sept 68:2033:6112
Dsc, ST10:Oct 70:2246:7570, of "Current European Views on Structural Safety", ST3:Mar 70:461:7132
Dsc, ST1:Jan 72:362:8623, of "Concrete Column Design by AASHO Specifications", ST4:Apr 71:1187:8070

Srinivasan, P.
Vibration Of Pipe Carrying Flowing Fluid, with V. Lakshminarayanan, TE2:May 70:165:7265
  TR:136:460

Srinivasan, Ramachandran
Fatigue Damage in Seismic Steel Members, with William H. Munse, TB:73:II-18-814
See Peter C. Birkemoe, ST3:Mar 71:935:7997
See Surendra Singh, SDNPF:Dec 73:43
See James C. Anderson, EPCE:Aug 74:363

Srinivasan, Ramanathan J.
See Annapareddy Siva Reddy, SM6:Nov 70:1967:7677

Srinivasan, S. P.
See K. Chandrashekhara, TN: ST12:Dec 72:2836:9400

Srinivasan, S. R.
Dsc, with S. Sridharan, ST2:Feb 74:472:10306, of "Analysis of Noncircular Cylindrical Shells", ST1:Jan 73:33:9473

Srinivasan, Vajapeyam S.
See Harry M. Hill, HY5:Sept 69:1545:6770

Srinivasan, Venkatraman
Dsc, with James V. Parcher, SM10:Oct 71:1504:8410, of "Aging Effects on Swell Potential of Compacted Clays", SM3:Mar 71:529:7951

Sriramulu, N.
See Malay Chaudhuri, EE1:Feb 74:219:10302

Sriramulu, Stuart G.
Dsc, with G. Padmanabhan, HY3:Jan 73:269:9459, of "Effect of Transportation Planning on Flood Plain Management", HY3:Mar 72:475:8761

Sriruang, S.
The Relation of Mineralogy and Microstructure to the Morphology and Trajectory of Rock Fractures Resulting from Dynamic Tensile Stress -- Abstract, with B. Hamil, RM14:73:750

Srivastava, Lakshman S.
Dsc, SM1:Jan 70:327:6989, of "Stability of Rock Slopes, A Three-Dimensional Study", SM1:Jan 69:235:6363

Srivastava, Narendra K.
Elastic Plastic Bending of Circular Plates, with Archibald N. Sherbourne, EM1:Feb 71:13:7902
  TR:137:93

Stachiw, Jerry D.
Concrete Deep Submergence Hollow Shell Structures, ST12:Dec 69:2931:6982
  TR:136:496
See Harvey H. Haynes, CEO-II:70:999
See Harvey H. Haynes, ST4:Apr 71:1283:8078

Stafford, Donald B.
Coastal Engineering Applications of Aerial Remote Sensing, CE13:72:III-2045
See Leonard J. Langfelder, WW2:May 70:531:7306

Stafford, Joseph H.
See Richard de Neufville, UTI:71:281
See Richard de Neufville, SA6:Dec 71:825:8575

Stafford, Larry D.
See Paul H. Stafford, TE2:May 69:237:6533

Stafford, Paul H.
Space Criteria for Aircraft Aprons, with Larry D. Stafford, TE2:May 69:237:6533
  TR:136:1085

Stahl, James F.
Education and Training Viewed by a Younger Member, CWFE:Mar 71:261

Stall, John B.
See Michael L. Terstriep, HY6:Nov 69:1809:6878
See Krishan P. Singh, HY12:Dec 74:1753:11013

Stallmeyer, J. E.
Cumulative Damage Theories and Application, with William Hamilton Walker, ST12:Dec 68:2739:6290
  Dsc: D. J. Ashby and F. Sherratt, ST10:Oct 69: 2322:6803
  Clo: ST11:Nov 70:2523:7644
  TR:136:6

Stamato, Miguel Carlos
Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, TB:73:III-24-683
Three-Dimensional Interaction of Walls and Frames, with E. Mancini, ST12:Dec 73:2375:10193
  Dsc: Riko Rosman, ST9:Sept 74:1974:10772
  TR:139:521

Stamatopoulos, Aris C.
Embankment Construction On Yielding Sea Bottom, with Panaghiotis C. Kotzias, SM7:July 72:727:9066
  Dsc: R. T. Murray, SM4:Apr 73:360:9639; N. Bhavanishankar Rao, SM7:July 73:568:9825
  Clo: GT2:Feb 74:178:10304
  TR:139:96
Dsc, with Panaghiotis C. Kotzias, SM1:Jan 71:262: 7785, of "Review of Collapsing Soils", SM3:May 70:925:7278
See Panaghiotis C. Kotzias, SM6:Nov 69:1335:6902
See Panaghiotis C. Kotzias, PISST:71:321

Stamm, Gilbert G.
Civil Engineering Education and the Bureau of Reclamation, CEE:Feb 74:1-347
Rehabilitation of Dams: Retrospect and Prospect, IMROD:Sept 73:4

Stane, R. A.
Computer Technology in New Line and Relocation Planning, TE3:Aug 70:291:7458

Stanger, Richard M.
Dsc, CE:Dec 71:71, on Superstructure for 1,350-ft.-High World Trade Center, CE:June 71:66

Stanley, C. Maxwell
Education for Leadership, CEE:Feb 74:1-312
The Engineer and the Environment, CE:July 72:78
  TR:138:352

Stann, J. E.
The San Francisco Bay-Delta Water Quality Control Program, with J. R. Ringwood, CE:June 69:74
  TR:135:490

Stansbury, Jeffrey D.
Dsc, CE:Mar 74:28, on Land Application of Treated Sewage, CE:Sept 73:103

Stanzak, W. W.
Fire Resistance of Unprotected Steel Columns, with T. T. Lie, ST5:May 73:837:9719
  Dsc: C. M. Kamath, ST4:Apr 74:821:10442
  TR:139:317

Starfield, A. M.
Elastic Analysis of Single Seam Extraction, with S. L. Crouch, RM14:73:421

Stark, Donald
Law Politics and Ground Water Management, SEA: 70:135

Stark, Douglas A.
Facilities Planning in Rural Alaska, UP2:Sept 73:247: 9970
  TR:139:303

Stark, Robert M.
Elements of Random Vector Analysis, with Devendra K. Shukla, TN: EM2:Apr 73:434:9641
Dsc, CO1:Jan 68:110:5701, of "Bidding Stratagies and Probabilities", CO1:Mar 67:75:5159
Dsc, with Robert H. Mayer, Jr., CO1:July 69:131: 6640, of "Optimum Life of Equipment for Maximum Profit", CO1:Jan 68:41:5745
See Devendra K. Shukla, EM6:Dec 72:1487:9449

Starr, John T.
The Cheasapeake Bay Study And Hydraulic Model, CEO-II:69:349

Starr, Michael R.
See Thomas L. Shaw, HY3:Mar 72:461:8774

Stastny, Francis J.
Joint Utilization of Rights-of-Way, TE2:May 72:299: 8880
  TR:138:130

Stauffer, Daniel B.
Property Development in Modern Communitites, CO1:Jan 68:35:5741
  Dsc: James G. Dickson, CO1:July 69:130:6640
  Clo: CO1:June 70:79:7308
  TR:135:1033

Stavropoulos, John G.
Dsc, HY11:Nov 70:2392:7641, of "Head Losses in Wyes and Manifolds", HY3:Mar 70:593:7130
Dsc, HY9:Sept 71:1561:8345, of "Power Losses and Flow Topologies in Manifold", HY1:Jan 71:81:7791

St. Clair, Robert C.
Evolution of Location and Design of TVA Power Substations, with John W. Sanders, EPCE:Aug 74: 525

Steanhardt, Otto
Dsc, Highway programs, CE:Oct 70:52

Stearns, Robert P.
Dsc, SA6:Dec 70:1469:7713, of "Optimal Routing of Refuse Collection Vehicles", SA4:Aug 70:893:7451

Stearns, Russell S.
Education Today for Environmental Challenges Tomorrow, PP1:Oct 70:67:7554
  TR:137:836

Steele, Charles R.
Membrane Solutions for Shells with Edge Constraint, EM3:June 74:497:10605

Steele, Isaac C.
Memoir of, TR:139:559

Steele, Kenneth Edward
NDBO Wave Data - Current and Planned, with Eduardo David Michelena and James Michael Hall, WAVES:Sept 74:417

Steenmeyer, Albert
Off-shore Mooring Systems at Exposed Locations, BMS:71:241
Off-shore Mooring Systems at Protected or Semi-protected Locations, BMS:71:224
Dsc, BMS:71:220, of "Model Investigation of Berthing Impacts", BMS:71:209

Steenson, H. N.
Using Accelerator - Wet Process, SUSS:July 73:104

Steeve, Edward J.
See David W. Gilman, PO1:Jan 71:151:7827

Stefan, Heinz
Dilution of Buoyant Two-Dimensional Surface Discharges, HY1:Jan 72:71:8653
  TR:138:124
Heated Discharge from Flume into Tank, with Frank R. Schiebe, SA6:Dec 70:1415:7762
  Dsc: Barry A. Benedict, SA4:Aug 71:537:8269
  Clo: SA2:Apr 72:440:8800
  TR:137:517
Impact of Cooling Water on Lake Temperatures, with Chung-Sang Chu and Ho Wing, PO2:Oct 72:253: 9241
  TR:138:392

Modeling Spread of Heated Water over Lake, PO3:June 70:469:7375
TR:136:1115
Seepage Study Using Electrical Analog, with Johannes Meyer, HY2:Feb 70:411:7064
Dsc: Robert L. McFall, HY10:Oct 70:2158:7568
Clo: HY5:May 71:735:8081
TR:136:458
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, ISSF:Aug 72:663
Stratification of Flow from Channel into Deep Lake, HY7:July 70:1417:7401
Dsc: David L. Wilkinson, HY4:Apr 71:602:8012
Clo: HY11:Nov 71:1897:8483
TR:137:63
See Gerald R. Seeley, ST8:Aug 74:1593:10751
See Paul P. Christiano, ST11:Nov 74:2323:10966

Stefanko, Robert
See H. Reginald Hardy, Jr., RM14:73, 785pp.

Steiert, Clarence J.
See Edward A. Cecil, PO1:June 72:11:8967

Stein, Jack R.
See Robert L. Schiffman, EC5:70:407
See Robert L. Schiffman, TN: SM4:July 70:1499:7387
See Robert L. Schiffman, ST1:Jan 71:253:7832

Steinbakke, P.
See O. G. Houmb, WAVES:Sept 74:25

Steinberg, Malcolm L.
Interceptor Drains in Heavy Clay Soils, TE1:Feb 70:1:7066
Dsc: Richard F. Broberg, TE4:Nov 70:654:7642
Clo: TE3:Aug 71:577:8268
TR:136:683

Steinberg, Meyer
See Lawrence E. Kukacka, CEO-II:70:969
See Lawrence E. Kukacka, ST9:Sept 71:2217:8363

Steinborn, Sydney
Aesthetic Factors in Planning and Design of Libby Dam, PO1:Jan 70:39:6999
TR:136:330
See Phillip L. Cole, CO1:Mar 74:7:10398

Steinbrugge, Karl V.
Earthquake Hazard and Public Policy in California, with Carl B. Johnson, PP4:Oct 73:513:10105
TR:139:529

Steinhardt, Otto
Design Methods Based on Stiffness, Theme Report, TB:73:II-17-611

Steinhardt, Otto W.
Dsc, CE:Feb 73:65, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE:Aug 72:55
Dsc, CE:Mar 73:48, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE:Aug 72:55
Dsc, CE:July 73:22, on Nitrate Removed at Water Treatment Plant, CE:Apr 73:45

Steinhaus, Max
Dsc, ST9:Sept 70:1978:7567, of "Residual Stresses in Curved Laminated Wood Beams", ST12:Dec 69:2873:6977

Stelle, William W.
Tallest Smoke Stack for Mitchell Plant, CE:Mar 69:44
TR:135:634
Dsc, CE:Oct 73:34, on "Quo Vadis, ASCE?", CE:June 73:59

Stelson, Thomas E.
Graduate Civil Engineering Programs, CEE:Feb 74:2-36

Stemple, Omar S.
See Kenneth Medearis, CE:July 73:82

Stenburg, Robert L.
New Approaches to Wastewater Treatment, with John J. Convery and Charles L. Swanson, SA6:Dec 68:1121:6296
Dsc: Ernest W.J. Diaper, SA5:Oct 69:978:6802; Russell L. Culp, SA5:Oct 69:980:7190
TR:135:783
See Francis M. Middleton, CWFE:Mar 71:189
See Francis M. Middleton, SA3:June 72:515:8956

Stenhouse, Michael H.
See Robert L. Stoy, HY9:Sept 73:1585:9999

Stensch, Walter
See Gilbert A. Hartley, ST1:Jan 74:51:10269

Stensel, H. David
Dsc, EE3:June 73:388:9758, of "Process Kinetics for Denitrification", SA4:Aug 72:623:9153

Stepanich, Fred C.
Sector Gates in Bangkok Klong System, WW4:Nov 71:721:8549
TR:137:965
See Thomas L. Adams, TN: SM9:Sept 72:987:9161
See Thomas L. Adams, SM11:Nov 73:957:10161

Stephen, R. M.
See Jack G. Bouwkamp, TE3:Aug 73:521:9907

Stephens, John C.
Peat and Muck Drainage Problems, IR2:June 69:285:6603
Errata: IR2:June 70:224:7311
TR:136:1098

Stephens, Malcolm N.
Dsc, PO1:Jan 71:253:7784, of "New Design Criteria for USBR Penstocks", PO1:Jan 70:129:7034

Stephenson, Dale E.
Influence of Loading Rate on Rock Response, with George E. Triandafilidis, GT2:Feb 74:101:10367

Stephenson, David
Optimum Design of Complex Water Resource Projects, HY6:June 70:1229:7320
Dsc: Marshall E. Moss, HY1:Jan 71:208:7783; Nicholas Paine, HY3:Mar 71:462:7940
Clo: HY10:Oct 71:1756:8407
TR:136:1251

Stephenson, J. Ben
See R. Fred Gray, PO2:Oct 69:293:6853

Stephenson, John
See Imamuddin Khwaja, ST1:Jan 73:33:9473

Stern, E. George
Timber-Arch Falsework for Concrete Arch Bridges, CE:Feb 70:69
TR:136:184
Dsc, ST2:Feb 69:296:6373, of "Load Distribution in Multiple-Bolt Tension Joints", ST5:May 68:1101:5939
Dsc, ST3:Mar 69:506:6430, of "Materials for Structural Models", ST6:June 68:1353:5990
Dsc, ST9:Sept 70:1980:7567, of "Stability Problems of Wood Truss Bridge", ST2:Feb 70:353:7095

Stern, Helman I.
Regional Interindustry Solid Waste Forecasting Model, EE6:Dec 73:851:10214
Dsc: Cheng H. Chiang, EE3:June 74:788:10564
TR:139:529

Sternberg, Yaron M.
Analysis of Sprinkler Irrigation Losses, IR4:Dec 67: 111:5672
  Dsc: Frederick L. Hotes, IR1:Mar 69:218:6428
  Clo: IR4:Dec 69:584:6930
  TR:135:408
Well Efficiency and Skin Effect, TN: IR2:June 73: 203:9766

Sterner, James N.
See Roy E. Olson, TN: SM1:Jan 71:283:7787

Stetson, Jerome O.
See Roland P. Kelly, SA3:June 69:679:6582

Steuerman, Sergey
Dsc, with William A. Flynn, SM6:Nov 70:2133:7643, of "Hydraulic Fills to Support Structural Loads", SM1:Jan 70:23:7009
Dsc, with William A. Flynn, PISST:71:196, of "Hydraulic Fills to Support Structural Loads", PISST:71:169
Dsc, SM6:June 71:950:8158, of "Effect of Strain History on Liquefaction of Sand", SM6:Nov 70: 1917:7670
Dsc, SM12:Dec 72:1422:9394, of "Settlement of Dry Sands During Earthquakes", SM4:Apr 72:381:8844

Stevens, Charles J.
ASCE Salary Survey, PP3:July 72:393:9025
  Errata: PP1:Jan 73:131:9460
  TR:138:347
Guideline: Employer—Engineer Relationship, PP4: Oct 72:523:9279
  Dsc: David Allen, PP3:July 73:416:9824; C. Allen Wortley, PP4:Oct 73:535:10040
  TR:139:61

Stevens, Herbert H., Jr.
Model for Sediment Transport through an Estuary Cross Section, with David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279

Stevens, John Cyprian
Memoir of, TR:135:1113

Stevens, John F.
John F. Stevens, Hon. M., proposed for Hall of Fame, CE:Jan 70:84

Stevens, Karl K.
Dsc, EM5:Oct 73:1099:10041, of "Beams Subjected to a Follower Force Within the Span", EM6:Dec 72:1353:9441

Stevens, Leonard K.
Design Developments - Asia & Australia, State-of-Art Report 4, TB:73:Ib-7-399
See Geoffrey G. Roy, ST8:Aug 70:1832:7442
See Geoffrey D. Base, ST12:Dec 71:2920:8557
See Geoffrey D. Base, ST10:Oct 73:2123:10055

Stevens, Michael A.
Dsc, with Daryl B. Simons, HY9:Sept 73:1634:9961, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198
See Daryl B. Simons, WW2:May 73:231:9731

Stevenson, Albert H.
Human Ecology Considerations in Water Quality Management, WQEF:Mar 70:65

Stevenson, John D.
Reliability Analysis of Frame Structures, with Fred Moses, ST11:Nov 70:2409:7692
  Errata: ST12:Dec 71:2891:8557
  TR:137:230
See P. Blair Haga, PO1:Jan 70:145:7037
See Fred Moses, ST2:Feb 70:221:7072

Steverding, Bernard
Fluid Interaction with Fracture Propagation in Pipelines, with Vernon A. Nieberlein, TE3:Aug 74: 583:10726

Stewart, Donald A.
See Shu-t'ien Li, CO2:Sept 72:173:9181

Stewart, E. H.
Salinity Status of Marl Soils in Southern Florida, with R. R. Alberts and P. G. Orth, SEA:70:63

Stewart, J. Ian
Functions to Predict Effects of Crop Water Deficits, with Robert M. Hagan, IR4:Dec 73:421:10229
  TR:139:533
Functions to Predict Optimal Irrigation Programs, with Robert M. Hagan and William O. Pruitt, IR2: June 74:179:10626
Predicting Effects of Water Shortage on Crop Yield, with Robert M. Hagan, IR1:Mar 69:91:6443
  TR:135:144
See Robert M. Hagan, IR2:June 72:215:8955

Stewart, Robert E.
Diffusion Of Sewage Effluent From An Ocean Outfall, with Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, CEO-II:70:1151
Diffusion of Sewage Effluent from Ocean Outfall, with Hugh D. Putnam, Richard H. Jones and Thomas N. Lee, SA4:Aug 71:485:8340
  TR:137:1019

Stewart, Ronald C.
See William R. Walker, SA5:Oct 68:945:6171

Stewart, Russell King
Memoir of, TR:135:1146

Stewart, T. L.
Dsc, TE2:May 69:391:6527, of "Computation of Oil Pipeline Transients", PL3:Nov 67:59:5608

Stewart, Wayne A.
Rock Island to Use Bulb Turbines—A First in U.S., with Warner W. Wayne, Jr., PO2:Dec 74:175: 11005

Steyert, Richard D.
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, EHRA:72, 171pp.
  TR:138:387
The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, TB:73:Ia-1-103

Stiassnie, Michael
Wave Defraction by Detached Breakwater, with Gedeon Dagan, WW2:May 72:209:8869
  Dsc: Yoshimi Goda and Tomotsuka Yoshimura, WW2:May 73:285:9694
  TR:138:265

Stickney, John E.
Dsc, CE:May 71:78, on The Civil Engineer as a Sales Engineer, CE:Feb 71:78

Stiefel, Robert C.
See Vincent T. Ricca, CEE:Feb 74:1-96

Stiles, Newell T.
Isopachous Mapping of the Lower Patuxent Estuary Sediments by Continuous Seismic Profiling Techniques, with Donald R. Wiesnet, 12CEC:71: 669

Stiles, W. C.
See T. G. Metcalf, SA4:Aug 68:595:6063

Stiller, Manfred
Quality Control of Concrete in Germany, TB:73:Ib-9-897
Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, TB:73:III-20-45

Stillman, William E.
Dsc, EM1:Feb 72:261:8680, of "Vibration Analysis of Thin Cylindrical Containers", EM2:Apr 71:317: 8010

Stine, Marvin D.
See John A. Roberson, HY7:July 72:1187:9061

Stingelin, Ronald W.
See James I. Taylor, HY1:Jan 69:175:6331

Stipp, John R.
Plotting Positions for Hydrologic Frequencies, with George K. Young, Jr., TN: HY1:Jan 71:219:7824

Stockbridge, J. G.
Strain in Brick Wall of Five-Story Building, ST12: Dec 69:2955:6979
TR:136:793

Stocks, Brian B.
See Norman A. Cyr, ST7:July 72:1585:9068

Stockton, Edward L.
Clean Air Management in Allegheny County, Pa., SA5:Oct 70:1211:7609
TR:136:1121

Stokes, Hayman W.
When is Tertiary Treatment the Wrong Solution to a Non-Problem?, with Lloyd D. Hedenland, CE:Sept 74:86

Stokey, Stanley R.
Citizens Participation and the New Environmentalism, UP1:Mar 73:69:9599
TR:139:204

Stokoe, Kenneth H., II
Dynamic Response of Embedded Machine Foundations, with Frank E. Richart, Jr., GT4:Apr 74:427:10499
In Situ Shear Wave Velocity by Cross-Hole Method, with Richard D. Woods, SM5:May 72:443:8904
Dsc: Wolfgang A. Haupt, SM2:Feb 73:224:9524; Karmvir S. Tyagi, SM4:Apr 73:351:9639
Clo: SM11:Nov 73:1014:10112
TR:139:57

Stolk, Edgar Pardo
See Christian K. De Fries, 4PCSM:71:II153

Stoll, Robert D.
A Dynamic Penetrometer For Investigating Sediment Properties, CEO-II:70:209

Stoll, Ulrich W.
Torque Shear Test For Cylindrical Friction Piles, CE: Apr 72:63
TR:138:203
Dsc, SM1:Jan 69:420:6324, of "The Behavior of Foundations During Construction", SM1:Jan 68:93: 5740
Dsc, SM10:Oct 71:1508:8410, of "Floating Foundations for Control of Settlement", SM6:June 71:899:8215

Stoller, Floyd
See Verl Lobb, ST3:Mar 71:905:7996

Stoltenberg, David H.
Dsc, SA2:Apr 71:245:8013, of " Instream Aerators for Polluted Rivers", SA5:Oct 70:1153:7631
Dsc, SA3:June 71:391:8157, of "Forecasting Water Demands and Systems Capabilities", SA6:Dec 70: 1349:7745
Dsc, EE6:Dec 74:1285:10971, of "Sewage Chlorination Versus Toxicity -- A Dilemma?", EE6: Dec 73:761:10190

Stoltz, Robert A.
See John A. Lepore, EM3:June 74:531:10628

Stolzenbach, Keith D.
Dsc, with Donald R.F. Harleman, HY4:Apr :713: 8799, of "Two-Dimensional Surface Warm Jets", HY6:June 71:819:8186

Stone, Archie A.
Trial Load Analyses Confirm Arch Dam Model Tests, with Gurmukh S. Sarkaria, PO2:Oct 67:37: 5503
Dsc: J. Laginha Serafim and A. F. da Silveira, PO2:Nov 68:240:6201
Clo: PO2:Oct 69:354:6801
TR:135:463

Stone, D. J.
See R. B. Carpenter, Jr., ESE:Apr 70:163

Stone, Donald C.
Educating Public Works Engineers and Administrators, CEE:Feb 74:1-679
Education for Public Works Engineering and Proposed ASCE Policy on Engineering Education (Discussion), CEE:Feb 74:2-294

Stone, Ralph
Aerobic and Anaerobic Landfill Stabilization Process, with Rishab K. Gupta, SA6:Dec 70:1399:7766
TR:137:872
Automatic Water and Waste Treatment Plants in Operation, with E. T. Conrad, CE:May 70:37
TR:136:387
Proposed Environmental Quality Policy for ASCE, CWFE:Mar 71:373
Sewage Treatment System Odors and Air Pollutants, SA4:Aug 70:905:7456
Errata: SA3:June 71:383:8157
TR:136:1004
Sewerage and Sewage Treatment: State-of-the-Art Abstracts, SA1:Feb 70:35:7074
Sewerage and Sewage Treatment: State-of-the-Art Abstracts, SA4:Aug 70:991:7477
Water and Sewage Sludge Absorption by Solid Waste, with Richard L. Kahle, SA5:Oct 72:731: 9250
Errata: EE5:Oct 73:746:10035
TR:139:423
Water Quality: Cost Benefits of Irreducibles, with William F. Garber and Helen Friedland, SA3:June 70:691:7336
TR:136:930
Dsc, EE6:Dec 73:964:10180, of "Disposal of Domestic Wastewater by Hillside Sprays", EE2:Apr 73:109:9673

Stoneking, Jerry E.
See William E. Highter, EM3:June 74:615:10565

Stoner, Michael A.
Estimating Natural Gas Pipeline Friction Parameters, with Michael A. Karnitz, TE3:Aug 74:757:10762

Storch, William V.
An Approach To Operation Of A Regional Primary Water Control Sysrem, with Robert L. Hamrick, SEA:70:45
Some Environmental Effects of Drainage in Florida, with Robert L. Taylor, IR1:Mar 69:139:6460
Errata: IR1:Mar 70:97:7114
TR:135:153

Storey, Herbert C.
Vegetation Management To Increase Water Yield, with Irvin C. Reigner, IAWM:72:271

Stotland, Howard C.
See Joseph M. Sussman, EC5:70:707
See Joseph M. Sussman, ST1:Jan 71:425:7844

Stout, Koehler
Dsc, SM1:Jan 71:261:7785, of "State of Predictive Art in Subsidence Engineering", SM2:Mar 70:721: 7187
See William G. Pariseau, RM13:72:367

Stover, Joe E.
Dsc, with William H. Espey, Jr., SA3:June 69:675: 6582, of "Effluent Disposal in South San Francisco Bay", SA2:Apr 68:213:5891

Stover, Vergil G.
See Donald L. Woods, TE4:Nov 69:659:6896

Stoy, Robert L.
Vortex Containment of Submerged Jet Discharge, with Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999
TR:139:371

Stoykovich, Milomir
Seismic Design and Analysis of Nuclear Plant Components, SDNPF:Dec 73:1
See Peter K. Ho, SDNPF:Dec 73:365

Strakosch, George R.
Horizontal Versus Vertical Transportation, TB:73:Ia-2-375

Strandberg, Edwin F.
Dsc, EM5:Oct 72:1306:9221, of "Torsion of Multilayered Rectangular Section", EM5:Oct 71: 1451:8415

Strassburger, Arthur G.
Determination of Concrete Properties in Old Dams, IMROD:Sept 73:477
Model and Prototype Tests of Buoyant Spillway Gates, with James F Sias, PO2:Oct 69:335:6863
TR:135:845
See David Pirtz, PO1:Jan 70:23:6997

Strasser, Gabor
Technology Assessment - What It Means to the Civil Engineer, PP1:Jan 73:111:9512
TR:139:199

Strating, John
Loading Function, State-of-Art Report 2, TB:73:II-19-849

Stratton, F. Wayne
See Carl F. Crumpton, CE:Nov 74:55

Stratton, Frank E.
Ammonia Nitrogen Losses from Streams, SA6:Dec 68:1085:6282
Dsc: Wilber A. Blain, SA5:Oct 69:974:6802
Clo: SA3:June 70:847:7313
TR:135:757
Nitrogen Losses from Alkaline Water Impoundments, SA2:Apr 69:223:6495
TR:135:275
Professional Engineers and Unions (Matters Relating to Fringe Benefits, Younger Viewpoint), CE:Nov 70:48
Dsc, with Perry L. McCarty, SA5:Oct 69:952:6802, of "Evaluation of Nitrification in Streams", SA5: Oct 68:883:6159
See R. O. Sylvester, CE:Apr 71:41

Strauss, Albert C.
Dsc, CE:May 73:57, on Rehabilitating Chicago's Expressways, CE:Dec 72:59

Strauss, Alvin M.
Dsc, EM1:Feb 74:132:10303, of "Thermo-Plastic Materials With Memory", EM1:Feb 73:131:9554

Strauss, Max W.
Dsc, CE:Nov 72:49, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE: Aug 72:55

Strazer, Robert J.
See William L. Shannon, CE:Mar 70:62
See Mehmet A. Sherif, SM1:Jan 73:111:9511

Street, Robert L.
See Konstantin Zagustin, WW4:Nov 68:397:6210
See Frederick E. Camfield, WW1:Feb 69:1:6380
See Robert K. C. Chan, 12CEC:71:345
See Theodor R. Mogel, 12CEC:71:899
See Ahmed El Nimur, IR1:Mar 72:13:8777
See Theodor R. Mogel, WAVES:Sept 74:790

Streeten, Basil R.
Dsc, IR2:June 72:339:8926, of "Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division", IR4:Dec 71: 601:8613

Streeter, Victor L.
Soil Motion Computations by Characteristics Method, with E. Benjamin Wylie and Frank E. Richart, Jr., GT3:Mar 74:247:10410
Transients in Pipelines Carrying Liquids or Gases, TE2:Feb 71:15:7884
TR:137:150
Water Hammer Analysis, HY6:Nov 69:1959:6899
Dsc: Kuan M. Yao, HY8:Aug 70:1748:7439
Clo: HY2:Feb 71:347:7863
TR:136:281
See Michel Kaplan, PL3:Nov 67:59:5608
See B. Wylie Evan, PL1:Oct 68:196:6133
See Constantine N. Papadakis, GT10:Oct 74:1091: 10853

Strekalov, S. S.
Structure of Sea Wave Frequency Spectrum, with V. F. Tsyploukhin and S. T. Massel, CE13:72:I-307
See Yu M. Krylov, TN: WW4:Nov 71:793:8491

Strelkoff, Theodor S.
Numerical Solution of Saint-Venant Equations, HY1: Jan 70:223:7043
Dsc: Robert P. Shubinski, HY6:June 70:1374: 7310
Clo: HY4:Apr 71:582:8012
TR:136:450
One-Dimensional Equation of Open-Channel Flow, HY3:May 69:861:6557
Dsc: James A. Liggett, HY1:Jan 70:292:6988
Clo: HY1:Jan 71:165:7783
TR:136:57
Pattern Of Potential Flow in a Free Overfall, with Mohammad S. Moayeri, HY4:Apr 70:879:7207
Dsc: M. H. Abdul Khader and H. Suresh Rao, HY1:Nov 70:2397:7641
TR:136:993
Dsc, with Delmar D. Fangmeier, IR3:Sept 74:390: 10771, of "Flow Resistance from Cylindrical Roughness", IR1:Mar 73:15:9612
See Delmar D. Fangmeier, EM1:Feb 68:153:5797
See William E. Hart, IR4:Dec 68:419:6284
See George Terzidis, HY12:Dec 70:2581:7780
See Mohammad S. Moayeri, HY4:Apr 73:653:9680
See John G. Sakkas, HY12:Dec 73:2195:10233
See John G. Sakkas, IR1:Mar 74:31:10422

Streltsova, Tatiana D.
Drawdown in Compressible Unconfined Aquifer, HY11:Nov 74:1601:10950
Method of Additional Seepage Resistances—Theory and Application, HY8:Aug 74:1119:10746

Stricker, Robert
See David H. Marks, UP2:Dec 71:165:8573

Stricklin, James A.
Geometrically Nonlinear Analysis by Stiffness Method, with Walter E. Haisler and Walter A. Von Riesemann, ST9:Sept 71:2299:8392
TR:137:1024

Striffler, W. David
Stripmining and Watershed Management, IRS:Sept 72:79

Strikney, Wallace E.
Dsc, CE:Dec 72:31, on How Urgent the Need to Recycle Solid Waste, CE:Sept 72:107

Stringer, Richard
Amoebic Cysticidal Properties of Halogens in Water, with Cornelius W. Kruse, NSCD:71:319

Amoebic Cysticidal Properties of Halogens in Water, with Cornelius W. Kruse, SA6:Dec 71:801:8567
  Dsc: Malay Chaudhuri, SA4:Aug 72:674:9077
  Clo: EE2:Apr 73:156:9635
  TR:138:98
See Cornelius W. Kruse, NSCD:71:113

Stroband, H. J.
See A. J. van Rees, CE13:72:III-2345

Strobel, G. C.
Steel Box Girders Highlight Design of I-480 in Omaha, CE:Dec 69:66
  TR:135:795

Strobel, Gerald A.
Coliform-Fecal Coliform Bacteria in Tidal Waters, SA4:Aug 68:641:6068
  TR:136:629

Strobel, Peter A.
Engineers' Inquiry Box: Roof-Tie Downs For Wind Uplift, CE:Dec 73:64

Strom, Edlund
See Gosta E. Sandstrom, CE:Sept 73:78

Stromann, Helle
See N. Krebs Ovesen, PES:72:I-1481

Strombom, Donald R.
Dsc, PP1:Jan 73:128:9460, of "The Civil Engineer in the Multidisciplinary Design Team", PP2:Apr 72: 221:8826

Stroppini, Elmer W.
Current Program of Seismic Safety, IMROD:Sept 73: 786
Foundation Treatment for Embankment Dams on Rock, with Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
  TR:138:493

Struckmeyer, Henry E.
See Elmer W. Stroppini, SM10:Oct 72:1073:9274

Strunk, Jo Chen
Electrical Systems in Tall Buildings, State-of-Art Report 5, TB:73:Ia-2-349

Struzeski, Edmund J., Jr.
See Richard Field, EE2:Apr 74:459:10473

Stuart, Darwin G.
See Joseph L. Schofer, UP1:Mar 74:93:10412

Stuart, John Gordon
See James Graham, SM11:Nov 71:1533:8510
See William James Neely, SM9:Sept 73:669:9980

Stuart, Richard J.
Vibration of Circular Plates with Edge-Beams, with John F. Carney, III, TN: EM4:Aug 73:907:9898

Stubbs, Ian R.
See V. R. Mc Lamore, ST10:Oct 71:2567:8454

Stuckrath, Timm
Measurement of Density Currents in an Idealized Model, 12CEC:71:1979

Stukel, James J.
NO_x Emmissions from Stationary Combustion Sources, by The Committee on Atmospheric Pollution of the Environmental Engineering Division, EE3:June 74:641:10581

Stumbo, C. R.
Mathematical Evaluation of Gaseous and Dry Heat Treatments, NSCD:71:469

Stump, Vernon L.
Investigation of a Wood Curing Waste, with Franklin J. Agardy, SA6:Dec 69:1051:6953
  TR:136:284

Stutz, Pierre
See Jean-Pierre Giroud, SM6:Nov 70:2148:7643

Su, Chih-Lan
Asymptotic Solutions of Resonances in Harbors With Basins, WW3:Aug 73:375:9954
  TR:139:465

Su, Hon-Hsieh
Settlement Analysis of Two Highway Embankments, with Rogel W. Prysock, PES:72:I-465

Su, Shih-Tun
Geometric and Frictional Effects on Sudden Releases, with Albert H. Barnes, HY11:Nov 70: 2185:7650
  TR:137:906
Dsc, HY3:Mar 71:464:7940, of "Real Time Routing of Flood Hydrographs in Storm Sewers", HY6:June 70:1247:7327

Suarez, M. A.
Selection of Design Basis Tornado, SDNPF:Dec 73: 597

Subba Rao, Kanakapura S.
Improved Behavior of Bell-Bottomed Poles, with H. V. Eswaraiah, PO1:May 73:155:9708
  TR:139:220
See George G. Meyerhof, ST5:May 74:1001:10531

Subba Rao, T. N.
See W. H. Arch, TB:73:Ia-4-823

Subedi, Nutan Kumar
See Alexander Coull, ST8:Aug 71:2097:8301

Subrahmanyam, Bandhuvula V.
Dsc, ST3:Mar 71:1007:7944, of "Rational Design of Light Gage Beams", ST7:July 70:1535:7421

Subrahmanyam, Madurachari S.
See Kolinjuvadi S. Sankaran, SM8:Aug 71:1131:8270
See Kolinjuvadi S. Sankaran, SM9:Sept 71:1345:8347

Subrahmanyam, P. V.R.
Dsc, with G. J. Mohanrao, SA6:Dec 70:1463:7713, of "Recent Paper Industry Waste Treatment Systems", SA2:Apr 70:467:7234

Subramanian, Chittoor V.
See Karl M. Romstad, ST11:Nov 70:2283:7664

Subramanya, Kanakatti
Flow Profile Computation by Direct Integration, with Amruthur S. Ramamurthy, TN: HY9:Sept 74: 1307:10776
Spatially Varied Flow Over Side-Weirs, with Subhash Chandra Awasthy, HY1:Jan 72:1:8627
  Dsc: Praxitelis A. Argyropoulos, HY11:Nov 72: 2046:9305; Li Yu-Tek, HY11:Nov 72:2047: 9305; T. Nadesamoorthy and Alexander Thomson, HY12:Dec 72:2234:9391
  TR:138:84
Studies on Seepage from Canals with Partial Lining, with Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333:10197
  Dsc: Dasika Bhagavantam, HY12:Dec 74:1842: 10974
  TR:139:469
Dsc, with Subhash Chandra Awasthy, HY12:Dec 70: 2635:7711, of "Internal Hydraulics of Thermal Discharge Diffusers", HY2:Feb 70:509:7085
See Nallamuthu Rajaratnam, HY1:Jan 68:95:5724
See Nallamuthu Rajaratnam, HY2:Mar 68:481:5860
See Nallamuthu Rajaratnam, HY3:May 68:663:5931
See Singamsetti Surya Rao, HY8:Aug 70:1759:7439
See Arun J. Valsangkar, IR2:June 72:309:8995

Sud, Inder K.
Analysis of Satellite Air Terminal System, with Paul Gray, TE4:Nov 73:935:10174
TR:139:548

Sudduth, Charles G.
Considering Social Value in Engineering Projects, PP1:Jan 72:43:8655
Dsc: Charles D. Crosthwaite, PP4:Oct 72:729:9224
Clo: PP2:Apr 73:275:9638
TR:138:96

Sueltenfuss, Melvin C.
Dsc, CE:June 72:50, on Environmental Litigation: Lessons From the Courts, CE:Jan 72:55

Sugimori, Yasuhiro
See Takashi Ichiye, WAVES:Sept 74:139

Sugio, Sutesaburo
Dsc, WW4:Nov 72:588:9310, of "Laboratory Study of Degradation and Aggradation", WW4:Nov 71:615:8493

Suh, Nam P.
Centrifugal Method of Mixing Soil with Stabilizer, with R. S. Lee, GT3:Mar 74:295:10411

Suhayda, Joseph N.
Determining Nearshore Intergravity Wave Spectra, WAVES:Sept 74:54

Suidan, Mubadda T.
Cumulative Fatigue Damage in Seismic Structures, with Robert A. Eubanks, ST5:May 73:923:9749
Dsc: James T.P. Yao, ST1:Jan 74:274:10253
TR:139:337
Fatigue Damage in Seismic Structures, TB:73:II-18-808
Finite Element Analysis of Reinforced Concrete, with William C. Schnobrich, ST10:Oct 73:2109:10081
Dsc: Sundaramoorthy Rajasekaran, ST9:Sept 74:1967:10772
TR:139:487
Dsc, ST10:Oct 72:2324:9227, of "Fatigue Failure of Nonlinear Multistory Seismic Structure", ST3:Mar 72:655:8792

Suko, Masaaki
Dynamic Analysis of Multibay Multistory Frames, with Peter F. Adams, ST10:Oct 71:2519:8443
Clo: ST9:Sept 72:2121:9159
TR:137:826

Sukumaran, K.
See V. Setty Pendakur, TE4:Nov 71:717:8486

Sulaiman, Ibrahim H.
Dsc, with Teddy J. Hirsch and Harry M. Coyle, SM1:Jan 70:353:6989, of "Dynamic Prediction of Pile Static Bearing Capacity", SM2:Mar 69:583:6468
Dsc, SM4:Apr 72:441:8801, of "Heave and Lateral Movements Due to Pile Driving", SM11:Nov 71:1513:8497
See Harry M. Coyle, SM6:Nov 67:261:5590

Sullivan, Raymond K., Jr.
Sizing of Pumped Storage Conduits, PO3:July 71:667:8252
Errata: PO1:June 72:178:8927
TR:137:346

Sullivan, Richard A.
Behavior of Wharf Affected by River Fluctuations, SM9:Sept 72:939:9197
TR:138:457
Planning for Driving Offshore Pipe Piles, with Clarence J. Ehlers, CO1:July 73:59:9844
TR:139:511

Sultan, Hassan A.
Dsc, SM1:Jan 71:267:7785, of "Review of Collapsing Soils", SM3:May 70:925:7278
Dsc, SM1:Jan 71:272:7785, of "Liquid Limit Values by Soil Moisture Tension", SM3:May 70:967:7298

Sumer, B. Mutlu
Simulation of Dispersion of Suspended Particles, HY10:Oct 73:1705:10056
Errata: HY8:Aug 74:1185:10696
TR:139:404
Dsc, HY4:Apr 72:718:8799, of "Longitudinal Dispersion of Bed-Material Particles", HY7:July 71:907:8228

Sumitomo, Hisashi
Dsc, with Shunsaku Yagi, EE1:Feb 73:92:9521, of "Hydraulic Control for Flow Distribution", SA2:Apr 72:275:8808
See Takeshi Goda, CE:Nov 71:42

Summerhays, Richard S.
See Jack J. Schoustra, CE:Jan 73:58

Summers, A. Darrell
See James W. Kirby, IR4:Dec 71:571:8570

Summers, David A.
Water Jet Cutting Related to Jet and Rock Properties, RM14:73:569

Sumner, John R.
Use of Precision Gravity Survey to Determine Bedrock, with John A. Burnett, GT1:Jan 74:53:10256

Sun, Chang-Kuei
Gravity Effect on Single-Degree Inelastic System, with Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565
TR:139:242

Sunada, Daniel K.
See Nazeer Ahmed, HY6:Nov 69:1847:6883
See Nikolas F. White, IR2:June 70:165:7376
See Robert Bibby, IR3:Sept 71:387:8350
See Willem F. Brutsaert, IR3:Sept 71:405:8376
See Nikolas F. White, IR3:Sept 74:277:10813

Sunbury, R. D.
See R. S. Fountain, ST12:Dec 68:2751:6291

Sundara, Raja
See Kashi T. Sundara Raja Iyengar, ST3:Mar 71:807:7961

Sundaram, T. R.
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, ISSF:Aug 72:683

Sundermann, Jurgen
Mathematical and Hydraulic Models of Tidal Waves, with Hans Vollmers, CE13:72:III-2413
See Hans Vollmers, 12CEC:71:2133

Super, Arlin B.
See Theodore W. Weaver, IR3:Sept 73:387:9988

Surendranath, M. K.
Dsc, ST9:Sept 73:1955:9964, of "Cost Optimization of Welded Plate Girders", ST10:Oct 72:2235:9258

Suresh, C.
See R. P. Ranganadha Rao, HY8:Aug 70:1732:7439

Suresh Rao, H.
Dsc, HY7:July 73:1178:9823, of "Chapter V: Sediment Control Methods: C. Control of Sediment in Canals", HY9:Sept 72:1647:9177
See M. H. Abdul Khader, HY1:Nov 70:2397:7641
See M. H. Abdul Khader, EM5:Oct 71:1567:8406
See M. H. Abdul Khader, EM2:Apr 72:447:8836
See M. H. Abdul Khader, HY6:June 72:1080:8925
See M. H. Abdul Khader, HY1:Jan 74:25:10265

Surry, David
See John Brian Roberts, EM6:Dec 73:1227:10248

Suryaprakasa Rao, P.
Field Study of Surathkal Beach, with P. Kassim, 12CEC:71:1365
Dsc, with C. P. Mohamed, WW1:Feb 71:212:7868, of "Relative Validities of Water Wave Theories", WW1:Feb 70:105:7092

Surya Rao, Singamsetti
Characteristics of Flow Weirs of Finite Crest Width, with Manoj Kumar Shukla, HY11:Nov 71:1807: 8515
Dsc: K. G. Ranga Raju, S. J. Sahasrabudhe and Ihsan Ahmad, HY12:Dec 72:2224:9391; Edward H. Wilson, HY12:Dec 72:2226:9391; D. Chandrasekaran and Ramaswamy Sakthivadivel, HY12:Dec 72:2229:9391
Clo: HY7:July 73:1149:9823
TR:139:6
Dsc, with Kanakatti Subramanya, HY8:Aug 70:1759: 7439, of "Numerical Method of Computing Flow Profiles", HY1:Jan 70:75:7005
Dsc, HY11:Nov 70:2395:7641, of "Designing Spillway Crests for High-Head Operation", HY3: Mar 70:745:7153

Sussman, Joseph M.
Estimating Travel Times on Highway Networks, with Ho-Kwan Wong and Roger Miller, TE1:Feb 74:13: 10335
Specs - A Specification Production Computer System, with Robert D. Logcher and Howard C. Stotland, EC5:70:707
Specs-A Specification Production Computer System, with Robert D. Logcher and Howard C. Stotland, ST1:Jan 71:425:7844
TR:137:341

Sussna, Stephen
Mobile Home Parks and American Municipalities, UP2:Dec 71:139:8562
TR:137:930

Sustar, John F.
See Richard M. Ecker, CE13:72:II-913

Sutcliffe, Harry
Large Aggregate Shotcrete Challenges Steel Ribs as a Tunnel Support, with Cole R. McClure, CE:Nov 69:51
TR:135:982

Sutherland, Alex J.
Diffusion Solution To Flows with Upstream Control, with Alistair G. Barnett, HY11:Nov 72:1969:9330
Errata: HY9:Sept 73:1646:9961
TR:139:123
Drag Coefficients in Nonsteady Turbulent Flow, with David J. Painter, HY7:July 71:1031:8233
Errata: HY5:May 72:954:8859
TR:137:724
Dsc, WW1:Feb 69:112:6374, of "Laboratory Simulation of Sea Waves", WW2:May 68:159:5941
Dsc, with David J. Painter, HY4:Apr 72:724:8799, of "Movement of Small Gas Bubbles in Smoothly Decelerating Liquid", HY7:July 71:117:8251

Sutherland, Earl C.
See Harry Czyzewski, CE:July 69:67

Sutherland, R. J. M.
Structural Design of Masonry Buildings, State-of-Art Report 4, TB:73:III-27-1035

Sutherland, Reginald J.
Survey of Ground-Access Problems at Airports, TE1: Feb 69:115:6415
Dsc: Johannes W. Kurz, TE4:Nov 69:706:6868; Wolfgang S. Homburger, TE1:Feb 70:121:7048
Trends in Airport Planning, ASC73:Mar 73:193

Sutherland, Robert Alexander
Memoir of, TR:138:642

Sutphin, Niles O.
Computer Systems for Urban Design and Development, with William F. Sommerfeld, Lavette C. Teague, Jr. and G. Neil Harper, UP1:Apr 71:63: 8055
Errata: UP1:July 72:106:9005
TR:137:240

Sutterfield, G. Wayne
See F. E. Wisely, CE:Jan 71:56
See F. E. Wisely, CE:Dec 72:30

Sutton, David L.
See Robert D. Blackburn, IR3:Sept 71:421:8362

Svasek, J. N.
Sand Transport During Closure of Tidal Channels, with J. H.J. Terwindt and A. W. Walther, CE13:72: II-865

Svendsen, I. A.
Shoaling of Cnoidal Waves, with O. Brink-Kjaer, CE13:72:I-365

Sveum, Duane J.
Navigation Model Tests for Straight Reach of Missouri River, with Warren J. Mellema, WW2: May 72:191:8867
TR:138:227

Swain, Abhimanyu
Dsc, HY6:Nov 69:2197:6866, of "Circular Hydraulic Jump", HY1:Jan 69:409:6367
Dsc, IR2:June 70:226:7311, of "Sedimentation of Reservoirs", IR3:Sept 69:415:6789
Dsc, HY7:July 70:1649:7384, of "Graphical Solution to Hydraulic Jump", HY1:Jan 70:103:7014
Dsc, HY10:Oct 70:2159:7568, of "Work-Energy Equation for the Streamline", HY5:May 70:1179: 7300

Swain, Donald G.
See Garry H. Austin, HY6:Nov 69:1793:6877

Swain, Francis E.
Guide to Development and Use of Electronic Computer Programs: Documentation, ST9:Sept 69: 1825:6760
TR:135:281
Memoir of, TR:137:1071

Swamee, Pramod K.
Equivalent Pipe Methods for Optimizing Water Networks--Facts and Fallacies, with P. Khanna, EE1:Feb 74:93:10375
Dsc: Arun K. Deb, EE6:Dec 74:1294:10971
Optimization of Dead End Water Distribution Systems, with Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650
Dsc: Uri Shamir, EE5:Oct 73:759:10035
Clo: EE3:June 74:764:10564
TR:139:60

Swami, A. L.
Dsc, with A. K.M. Jilani, HY11:Nov 73:2152:10109, of "Damage to Karnafuli Dam Spillway", HY12: Dec 72:2155:9452
Dsc, with A. K.M. Jilani, HY1:Jan 74:235:10251, of "Brink Depth for Trapezoidal Broad-Crested Weir", HY12:Dec 72:2171:9427

Swamidas, A. S. J.
Buckling of Continuous Circular Plates, with Vincent X. Kunukkasseril, EM4:Aug 73:835:9900
Errata: EM4:Aug 74:818:10694
TR:139:365

Swaminathan, K. R.
Dsc, with C. Dakshinamurti, HY1:Jan 72:289:8620, of "Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division", HY4:Apr 71:523:8076

Swaminathan, K. V.
Dsc, with N. Raghavendra, ST3:Mar 71:972:7944, of "Concrete Beams in Bending, Torsion and Shear", ST5:May 70:885:7270
Dsc, with N. Raghavendra, ST3:Mar 71:979:7944, of "Arch Action and Bond in Concrete Shear Failures", ST6:June 70:1069:7338
Dsc, with N. K. Jain, ST6:June 71:1808:8159, of "Bonded Concrete Overlays", ST8:Aug 70:1627:7450
Dsc, with C. R. Venkatesha, ST6:June 71:1818:8159, of "Complete Adjustment Method for Analyzing Arch Dams", ST8:Aug 70:1711:7492
Dsc, with C. R. Venkatesha, ST7:July 71:2023:8225, of "Earthquake Design of Cooling Towers", ST9:Sept 70:1889:7524

Swamy, Ramnath N.
Arch Action and Bond in Concrete Shear Failures, with Alexios Andriopoulos and Dotun Adepegba, ST6:June 70:1069:7338
  Dsc: K. V. Swaminathan and N. Raghavendra, ST3:Mar 71:979:7944; Surendra K. Ojha, ST3:Mar 71:983:7944; Chinta S. Reddy and B. Rajaram, ST3:Mar 71:986:7944; Madhujit Mukhopadhyay, ST4:Apr 71:1364:8015
  Clo: ST1:Jan 72:349:8623
  TR:137:34

Swanberg, John Howard
Memoir of, TR:138:644

Swanson, Charles L.
New Wastewater Treatment Processes: EPA Encourages Adoption, CE:Sept 71:49
  TR:137:547
See Robert L. Stenburg, SA6:Dec 68:1121:6296

Swanson, Vernon E.
The Dilemma of an Engineering Manager in a Professional Engineering Firm, CE:July 69:56
  TR:135:212
Reconnaissance for Dam Sites in Remote Areas, SU1:Apr 70:97:7244
  TR:136:1119

Swartz, Stuart E.
Buckling of Reinforced Concrete Plates, with Vernon H. Rosebraugh, ST1:Jan 74:195:10280
Experiments with Elastic Folded Plate Models, with Vernon H. Rosenbraugh, EM3:June 72:711:8992
  TR:138:325

Swatek, Edwin Paul, Jr.
Performance of Bracing for Deep Chicago Excavation, with Sherwin P. Asrow and Arthur M. Seitz, PES:72:I-1303

Sweeney, Edward A.
Site Related Design Considerations for Standardized Nuclear Power Plant Design, SDNPF:Dec 73:415

Sweet, Arnold L.
Upper Bound for Two-Sided Barrier Problem, EM6:Dec 69:1369:6962
  TR:136:433
See Jay C. Hardin, EM2:Apr 71:375:8056

Sweeten, John M.
See Robert M. Clark, SA6:Dec 72:897:9424

Swenson, Richard C.
Engineering Aspects Of A Movable Surveillance System, CEO-II:70:385

Swet, Charles J.
Curbside Service Subways, TE4:Nov 72:941:9331
  Errata: TE3:Aug 73:684:9896
  TR:139:65

Swift, George W.
Layered Beam Analysis, with Robert A. Heller, EM2:Apr 74:267:10484

Swift, R. David
See Arthur C. Heidebrecht, ST5:May 71:1407:8100

Swift, R. P.
Dynamic Behavior of Rocks to Spherical Stress Waves, with M. W. McKay, RM13:72:797

Swiger, William F.
Construction of Deep Foundations, PES:73:III-207
Foundation Design, Theme Report, TB:73:Ia-11-849
Subsurface Investigation for Design and Construction of Buildings: Part II, SM6:June 72:557:8944
  Dsc: James V. Hamel, SM12:Dec 72:1428:9394; Abdel-Aziz I. Kashef and Ray T. Whiteaker, SM12:Dec 72:1429:9394; Dale G. Wilder, SM1:Jan 73:148:9461; Carl Redel, SM4:Apr 73:355:9639; John H. Schmertmann, SM6:June 73:477:9762; Kyrre P. Nordmo, SM7:July 73:566:9825; Robert F. Legget, SM7:July 73:564:9825
  Errata: SM3:Mar 73:297:9582
  Clo: GT2:Feb 74:177:10304
  TR:139:73
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV, SM7:July 72:749:9070
  Dsc: Carl Redel, SM4:Apr 73:355:9639; Mashesh D. Desai, SM5:May 73:410:9692; Robert F. Legget, SM7:July 73:564:9825
  Clo: GT2:Feb 74:177:10304
  TR:139:104
Subsurface Investigation for Design and Construction of Foundations of Buildings: Appendices A and B, SM8:Aug 72:771:9103
  Dsc: Robert F. Legget, SM7:July 73:564:9825
  Clo: GT2:Feb 74:177:10304
  TR:139:111
Subsurface Investigations for Design and Construction of Foundations of Buildings: Part I, SM5:May 72:481:8917
  Dsc: Narayan Nayak, SM12:Dec 72:1425:9394; George D. Roberts, SM1:Jan 73:144:9461; Kiichi Tanimoto and Marcis Kurzeme, SM4:Apr 73:353:9639; Robert F. Legget, SM7:July 73:564:9825
  Clo: GT2:Feb 74:177:10304
  TR:139:66

Swinbank, William C.
National Hail Research Experiment, OIDS:72:395

Swisher, A. Dale
Dsc, CE:July 72:65, on People, Ecology and the Aswan High Dam, CE:Feb 72:37

Switzky, Harold
Design and Analysis of Frames for Stability, with Ping Chun Wang, ST4:Apr 69:695:6522
  Dsc: Mehmet Celebi, ST11:Nov 69:2540:6867; Adel Helmy Salem, ST2:Feb 70:427:7047
  TR:136:709
Dsc, ST9:Sept 69:1983:6755, of "Optimum Design of Framed Structures", ST:Dec 68:2817:6273

Syal, Ishwar C.
Biaxially Loaded Beam-Column Analysis, with Satya S. Sharma, ST9:Sept 71:2245:8384
  Dsc: Sriramulu Vinnakota, Pentti Aysto and John C. Badoux, ST6:June 72:1334:8930
  Clo: ST1:Jan 73:205:9462
  TR:137:1015
Elastic Behavior of Biaxially Loaded Steel Columns, with Satya S. Sharma, ST3:Mar 70:469:7143
  Errata: ST2:Feb 71:721:7867
  TR:136:593

Syamala Rao, Bezzam C.
Distribution of Energy Losses at Conduit Trifurcations, HY6:Nov 68:1363:6207
  Dsc: K. N. Shivashankara Rao, HY5:Sept 69:1745:6784
  Clo: HY3:Mar 70:842:7113
  TR:135:743
Dsc, with Nagar S. Lakshmana Rao, IR3:Sept 68:352:6088, of "Energy Loss at Pipe Junctions", IR3:Sept 67:59:5411
Dsc, with D. Chandrasekaran, HY10:Oct 71:1782:8407, of "Effect Of Side Walls On Flow Past Bluff Bodies", HY1:Jan 71:65:7788

Sykes, Ann
See Kamil H.M. Ali, TN: HY5:May 72:973:8864

Sykes, Jon F.
Finite Element Permafrost Thaw Settlement Model, with William C. Lennox and Robin G. Charlwood, GT11:Nov 74:1185:10957
Two-Dimensional Heated Pipeline in Permafrost, with William C. Lennox and Tharakkal E. Unny, GT11:Nov 74:1203:10956

Sykes, Robert M.
Trends in Environmental Engineering Education, CEE:Feb 74:2-138

Sylvester, R. O.
Dsc, with Frank E. Stratton and David H. Howells, CE:Apr 71:41, on Population and People, CE:Dec 70:27

Symm, George T.
Dsc, ST7:July 68:1858:6017, of " Integral Equation Method for a Corner Plate", ST1:Jan 68:41:5711

Symonds, Paul S.
Dsc, ST12:Dec 72:2822:9395, of "Optimum Fire Resistance of Structures", ST1:Jan 72:215:8638

Syrakov, Dimitar Enchev
Spectra of Thermally Stratified Turbulent Flows, ISSF:Aug 72:673

Szabo, Barna A.
Stiffness Matrix for Plates by Galerkin's Method, with George C. Lee, EM3:June 69:571:6608
  Dsc: Vipperla B. Venkayya and N. S. Khot, EM2:Apr 70:173:7188
  Clo: EM6:Dec 70:1269:7710
  TR:136:137

Szechowycz, Roman W
Sedimentation in Mangla Reservoir, with M. Mohsin Qureshi, HY9:Sept 73:1551:10033
  TR:139:403

Szendrei, Michael E.
Road Responses to Vibration Tests, with Charles R. Freeme, SM6:Nov 70:2099:7709
  TR:136:1289

Szepesi, Karoly
Dsc, with Zoltab Szilvassy, PO1:Jan 71:227:7784, of "Concrete Volume Change for Dworshak Dam", PO2:Oct 69:153:6825

Szilvassy, Zoltab
See Karoly Szepesi, PO1:Jan 71:227:7784

Szuladzinski, Gregory
Dsc, ST11:Nov 73:2322:10113, of "Symmetry in Structural Mechanics", ST1:Jan 73:71:9475

Tabler, L. Earl, Jr.
Contractor's Management Handbook, ed. by James J. O'Brien & Robert G. Zilly; consulting ed. Thomas A. Graham (Book Review), CE:May 72:10

Tabor, Clifford C.
Wellton-Mohawk Drainage and the Mexican Salt Problem, IR73:Aug 73:285

Tachau, Herman
Dsc, ST9:Sept 71:2429:8348, of "Fatigue Tests of Prestressed Concrete I-Beams", ST11:Nov 70:2443:7705

Tack, Peter I.
See John Z. Reynolds, EPCE:Aug 74:227

Tadros, Gamil S.
Convergence of Semianalytical Solution of Plates, with Amin Ghali, EM5:Oct 73:1023:10054
  Dsc: Yew-Chaye Loo and Anthony R. Cusens, EM5:Oct 74:1051:10837
  TR:139:448
See Amin Ghali, ST11:Nov 74:2307:10968

Taechathummarak, Anan
See Edward W. Brand, PES:72:I-903

Taft, Robert, Jr.
See Duane L. Cronk, CE:Apr 71:40

Tafuri, Anthony N.
See Richard Field, EE2:Apr 74:459:10473

Taggart, Eugene T.
Dsc, CE:June 71:40, on Graphic Dissolved Oxygen Computation, CE:Mar 71:60

Tahbildar, Umesh Chandra
Earthquake Response of Arch Dams, with Hugh Tottenham, ST11:Nov 70:2321:7681
  Dsc: Melvin W. Jackson, ST7:July 71:2027:8225; Ramakrishna Narayanaswami and Chiyyarath V. Girijavallabhan, ST8:Aug 71:2152:8271
  Clo: ST2:Feb 72:505:8684
  TR:137:222

Taillebot, A. J.
Electricite de France Experiences and Practice in Safety Inspections of Old and New Dams, IMROD:Sept 73:229

Tait, Richard G.
See Schaefer J. Dixon, PP3:July 73:393:9887

Takada, Akira
See Shoshichiro Nagai, CE13:72:III-1975

Takahashi, Stanley K.
Photoelastic Analysis of Undersea Structures, with Robert Mark, ST3:Mar 69:317:6440
  TR:135:946

Takamatsu, Takeichiro
Effects of Desposit Resuspension on Settling Basin, with Masaaki Naito, Sadataka Shiba and Yasuyo Ueda, EE4:Aug 74:883:10705

Takebe, Ken-ichi
Theoretical Analysis of Interchange Composition, TE:Aug 69:483:6737
  TR:135:1034

Takeda, Toshikazu
See Yoichi Higashi, TB:73:III-24-655

Takeda, Tsuruzo
Reinforced Concrete Response to Simulated Earthquakes, with Mete A. Sozen and N. Norby Nielsen, ST2:Dec 70:2557:7759
  TR:137:847

Takemiya, Hirokazu
See Loren D. Lutes, EM2:Apr 74:343:10482

Takeno, M.
See Rimas Vaicaitis, ST3:Mar 73:453:9634

Talbott, John A.
See Ernest C. Harris, CE:July 72:49

Talesstchi, Ahmed
See Subhash C. Anand, ST3:Mar 73:301:9594

Tall, Lambert
See Ching K. Yu, ST7:July 71:1841:8231
See Negussie Tebedge, ST12:Dec 73:2439:10232

Talley, Wilson K.
See Aviva E. Gileadi, WW3:Aug 69:329:6730

Tamagni, John S.
Owner-Engineer-Contractor Economic Considerations in Dam Construction, ECCD:72:497

Tamai, Nobuyuki
Horizontal Surface Discharge of Warm Water Jets, with Robert L. Wiegel and Gordon F. Tornberg, PO2:Oct 69:253:6847
  Dsc: Klas Cederwall, PO1:Jan 71:229:7784
  Clo: PO3:July 71:711:8256
  TR:136:719

Tamanini, Flory J.
Designing Fail-Safe Structures of Highway Safety, TE2:May 71:305:8150
  TR:137:383
Energy Absorbing Roadside Crash Barriers, with John G. Viner, CE:Jan 70:63
  TR:136:79

Tamblyn, Thomas A.
Dsc, with Louis A. Beck, SA4:Aug 68:728:6049, of "Distribution of Pesticides in California", SA5:Oct 67:27:5510

Tamboli, Akbar R.
Optimization, TB:73:II-14-239
Soil-Structure Systems, TB:73:Ib-6-318

Tambor, C. Wade
Transportation Innovation: Making It Profitable, UTI:71:421

Tan, Chen Pang
Concrete Containments for Reactors-State-of-Art, ST7:July 70:1543:7424
  Clo: ST7:July 71:2017:8225
  TR:136:1016
Response of Horizontally Curved Bridge to Moving Load, with Sidney Shore, ST9:Sept 68:2135:6125
  Dsc: Charles G. Culver, ST3:Mar 69:544:6430
  Clo: ST11:Nov 69:2523:6867
  TR:135:785
Dsc, with Sidney Shore, ST12:Dec 69:2997:6932, of " Horizontally Curved Girders-State of the Art", ST5:May 69:853:6546
Dsc, with Sidney Shore, ST4:Apr 70:860:7191, of "Static Model Tests of Curved Girder Bridge", ST8:Aug 69:1599:6712
Dsc, with Sidney Shore, ST4:Apr 70:861:7191, of "Horizontally Curved Bridges Subject to Moving Load", ST8:Aug 69:1615:6713
Dsc, ST5:May 70:1001:7250, of "Behavior of Stiffened Curved Plate Model", ST11:Nov 69:2353:6876
Dsc, PO3:June 70:490:7312, of "Grouted Tendons for Nuclear Containment", PO2:Oct 69:277:6852
Dsc, ST6:June 70:1260:7314, of "Conventionally Reinforced Nuclear Containments", ST2:Feb 70:199:7065
Dsc, ST5:May 72:1210:8861, of "Plastic Liners for CANDU Containment Structures", ST10:Oct 71:2583:8435

Tanagi, Shunsuke Takagi
Dsc, SM6:Nov 70:2163:7643, of "Comparison of Plane Strain and Triaxial Tests on Sand", SM3:May 70:901:7276

Tanaka, Hiroshi
See Milos Novak, EM1:Feb 74:27:10338

Tanaka, Masaru
Use of Irradiation in Plastic Wastes Disposal, with Tsuyoshi Mifune, SA3:June 72:561:8990
  TR:138:414
Dsc, SA1:Feb 72:269:8682, of "Selecting Solid Waste Disposal Facilities", SA4:Aug 71:443:8280
Dsc, SA2:Apr 72:466:8800, of "Cost of Residential Solid Waste Collection", SA5:Oct 71:563:8403
Dsc, SA4:Aug 72:675:9077, of "Empirical Analysis of Commercial Solid Waste Generation", SA6:Dec 71:843:8589
Dsc, with Kach Boonyakachon, EE5:Oct 73:749:10035, of "Optimal Design of Wastewater Treatment Systems by Enumeration", SA6:Dec 72:833:9403
See Jimmie E. Quon, SA3:June 69:575:6626
See Jimmie E. Quon, SA2:Apr 70:437:7232

Tanel, A.
Dsc, CE:Mar 71:52, on Federal Breakthrough Program Spurs Innovation in U.S. Housing Technology, CE:Sept 70:73

Tang, Frederick L.W.
Researches on the Deformation of Wave Spectra in Intermediate Water Area by Calculation, with Shan-Hwei Ou, CE13:72:I-271
See C. T. Kuo, 12CEC:71:179
See Kenneth S. T. Chang, 12CEC:71:729
See Shan-Hwei Ou, WAVES:Sept 74:728

Tang, Jhy-Pyng
Expected Fatigue Damage of Seismic Structures, with James T.P. Yao, EM3:June 72:695:8986
  TR:138:317
Fatigue Damage Factor in Structural Design, with James T.P. Yao, ST1:Jan 72:125:8647
  TR:138:126

Tang, Man-Chung
Analysis of Cable-Stayed Girder Bridges, ST5:May 71:1481:8116
  Dsc: Benjamin E. Lazar, ST10:Oct 71:2631:8411; John J. Jonatowski, ST3:Mar 72:770:8752
  Errata: ST5:May 72:1191:8861
  Clo: ST4:Apr 73:787:9640
  TR:137:928
Design of Cable-Stayed Girder Bridges, ST8:Aug 72:1789:9151
  Dsc: Benjamin E. Lazar, ST5:May 73:961:9693
  Clo: ST7:July 73:1666:9826
  TR:139:112

Tang, Sam
Nonlinear Analysis of Instability in Tension, EM5:Oct 71:1487:8428
  Dsc: Franco Maceri, EM4:Aug 72:996:9125
  TR:138:21

Tanimoto, Katsutoshi
See Yoshiyuki Ito, CE13:72:I-503

Tanimoto, Kiichi
Dsc, with Marcis Kurzeme, SM4:Apr 73:353:9639, of "Subsurface Investigations for Design and Construction of Foundations of Buildings: Part I", SM5:May 72:481:8917

Tanji, Kenneth K.
Sealing Leaks in Pipelines with Ammoniated Waters, with L. D. Doneen and J. V. Kubes, IR1:Mar 69:171:6473
  TR:135:129

Tanner, Sidney H.
Hurricane Barrier Environmental Planning in Texas, with Edward J. Pullen, WW4:Nov 73:459:10171
  Errata: WW4:Nov 74:412:10903
  TR:139:535

Tanniru, V. N.
Dsc, EM6:Dec 74:1259:10972, of "Cantilever Cylindrical Shells Under Assumed Wind Pressures", EM5:Oct 73:943:10085
Dsc, EM ;J11006:Dec 74:1264:10972, of "Anisotropic Beams by Moment-Differential Method", EM6:Dec 73:1283:10207

Tantala, Albert M.
Dsc, CE:July 71:56, on Federal Breakthrough Program Spurs Innovation in U.S. Housing Technology, CE:Sept 70:73

Tao, Li-Chung
Stability of a Heated Plastic Column, with Atle Gjelsvik, EM5:Oct 69:1169:6849
TR:136:802

Taoka, George T.
Dynamic Properties of Tall Shear-Wall Buildings, with Augustine S. Furumoto and Arthur N.L. Chiu, ST2:Feb 74:305:10336
See Arthur N.L. Chiu, ST9:Sept 73:1911:10012

Tarapore, Zal S.
Dsc, with J. G. Dixit, HY2:Feb 72:391:8681, of "Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division", HY4:Apr 71:523:8076
See Chintaman V. Gole, WW4:Nov 74:411:10903

Tarbox, Glen S.
Analyzing and Strengthening Concrete Dams on Deficient Foundation, IMROD:Sept 73:741

Tarnoff, Philip J.
See Juri Raus, TE4:Nov 72:909:9313

Tarpy, Thomas S., Jr.
Dsc, with William H. Rowan, Jr., ST10:Oct 70:2249:7570, of "Substructure Analysis by Matrix Decomposition", ST3:Mar 70:663:7169
See William H. Rowan, Jr., ST7:July 69:1589:6644

Tarshansky, Isaac W.
Dsc, SM6:Nov 70:2135:7643, of "Hydraulic Fills to Support Structural Loads", SM1:Jan 70:23:7009
Dsc, PISST:71:198, of "Hydraulic Fills to Support Structural Loads", PISST:71:169

Tarza, A. I.
See M. J.L. Hussey, ST3:Mar 71:753:7954

Tarzwell, Clarence M.
Waste Management In The Marine Environment, CEO-II:70:477

Tatarian, S. Myron
Dsc, CE:Feb 74:24, on Land Application of Treated Sewage, CE:Sept 73:103

Tate, Boyce D.
BS-CET Program at Western Kentucky University, CEE:Feb 74:1-244

Tatlow, Richard H., III
What's the Deal? Government Negotiates Engineering Services, PP1:Sept 70:81:7557
TR:136:1167

Tavenas, Francois A.
Dsc, SM6:Nov 70:2157:7643, of "Tests on Instrumented Piles, Ogeechee River Site", SM2:Mar 70:561:7170
Dsc, 4PCSM:72:III64, of "The Standard Penetration Test", 4PCSM:71:I1
Dsc, SM4:Apr 72:433:8801, of "Simplified Procedure for Evaluating Soil Liquefaction Potential", SM9:Sept 71:1249:8371
See Oscar Dascal, PES:72:I-129

Tayfun, Mehmet Aziz
Design Considerations on Wave Spectrum Estimation, with Cheng Y. Yang and George Chia-Chu Hsiao, WAVES:Sept 74:125
Monte Carlo Simulation of Oil Slick Movements, with Hsiang Wang, WW3:Aug 73:309:9930
TR:139:405
Non-Stationary Spectrum Analysis of Ocean Waves, with Cheng Y. Yang and George Chia-Chu Hsiao, CE13:72:I-251
Dsc, with Cheng Y. Yang, EM6:Dec 72:1606:9390, of "An Approach to Time-Varying Spectral Analysis", EM1:Feb 72:243:8733
See Cheng Y. Yang, WAVES:Sept 74:352

Taylor, Brent D.
Temperature Effects in Flows over Nonplanar Beds, HY12:Dec 74:1785:11015
Temperature Effects in High-Transport, Flat-Bed Flows, with Vito A. Vanoni, HY12:Dec 72:2191:9456
Errata: HY4:Apr 74:611:10441
TR:139:154
Temperature Effects in Low-Transport, Flat-Bed Flows, with Vito A. Vanoni, HY8:Aug 72:1427:9105
TR:138:412
Dsc, with Vito A. Vanoni, WW2:May 69:247:6528, of "Effects of Water Temperature on Bed-Load Movement", WW3:Aug 68:343:6083
Dsc, HY5:May 71:756:8081, of "Indeterminate Hydraulics of Alluvial Channels", HY11:Nov 70:2309:7696

Taylor, Calvin W.
Better Designs for Man through Teamwork, Training, Research, and Feedback, ABS:71:11

Taylor, Catherine R.
Panama's Forgotten Designer: John Frank Stevens, PP4:Oct 73:465:10106
TR:139:538

Taylor, Cedric
See Peter W. France, IR1:Mar 71:165:7959

Taylor, Donald A.
See Ian C. Medland, ST2:Feb 71:573:7933

Taylor, E. E.F.
Steel Construction, State-of-Art Report 5B, TB:73:Ia-4-767
See W. H. Arch, TB:73:Ia-4-823

Taylor, Geoffrey
See Nessim Hay, HY11:Nov 70:2337:7691

Taylor, George S.
See Ralph B. Hwang, IR3:Sept 74:267:10797

Taylor, Henry T.
Field Test of Debris Fill Over Soft Soil, with Albert L. Buchignani, PES:72:I-395

Taylor, Howard M.
Engineering Managers: Key to Cutting Labor Costs, CE:June 71:41
TR:137:405

Taylor, Howard P.J.
Shear Strength of Large Beams, ST11:Nov 72:2473:9329
TR:138:533

Taylor, J. E.
Maximum Strength Elastic Structural Design, EM3:June 69:653:6617
TR:136:1086

Taylor, James H.
See Thomas L. Huntzinger, IRS:Sept 72:171

Taylor, James I.
Infrared Imaging for Water Resources Studies, with Ronald W. Stingelin, HY1:Jan 69:175:6331
TR:135:231

Taylor, Karl V.
Stability of Old Dams as Related to Their Foundations, IMROD:Sept 73:688

Taylor, Michael A.
See Karl M. Romstad, EM5:Oct 74:935:10879

Taylor, Michael J.
Dsc, Assuring Engineer-Contractor Cooperation, with Richard G. Almes, CE:May 71:64

Taylor, Peter W.
Dsc, ST6:June 72:1336:8930, of "Earthquake Design Formula Considering Local Soil Conditions", ST9: Sept 71:2383:8399

Taylor, R. B.
See Robert G. Dean, CE13:72:III-2227

Taylor, Robert L.
Operation and Maintenance of Irrigation and Drainage Systems, IR3:Sept 73:237:10014
  Dsc: John L. Merriam, IR3:Sept 74:399:10771
  Errata: IR2:June 74:209:10568
  TR:139:473
Dsc, EM5:Oct 71:1571:8406, of " Finite Element Bending Analysis of Reissner Plates", EM6:Dec 70: 967:7760
See Richard E. Goodman, SM3:May 68:637:5937
See William V. Storch, IR1:Mar 69:139:6460

Taylor, Stewart F.
Urban Mass Transportation: Review and Analysis, with Louis W. Petulla, TE2:May 70:175:7277
  Dsc: Labh S. Sachdev and William E. Popp, TE1: Feb 71:167:7864
  TR:137:701

Taylor, T. Karl
Dsc, TE2:May 74:531:10508, of "Effect of Environment on Rapid Transit Construction", TE2: May 73:367:9751

Taylor, Thomas
See Robert D. Blackburn, IR3:Sept 71:421:8362

Taylor, William C.
Michigan Transportation in the Seventies, TE4:Nov 72:847:9350
  TR:138:510

Taylor, William V.
See Clayton T. Crowe, TN: ST8:Aug 74:1745:10723

Tchobanoglous, George
Filtration of Treated Sewage Effluent, with Rolf Eliassen, SA2:Apr 70:243:7210
  TR:136:438
See John A. Lager, SA2:Apr 68:213:5891
See Thomas M. Rachford, SA6:Dec 69:1063:6957
See William K. Johnson, CEE:Feb 74:1-71

Teague, Lavette C., Jr.
BUILD-An Integrated System for Building Design, with Alan M. Hershdorfer, ST4:Apr 68:983:5901
  TR:135:546
See Niles O. Sutphin, UP1:Apr 71:63:8055

Tebedge, Negussie
Design Criteria for H-Columns under Biaxial Loading, with Wai F. Chen, ST3:Mar 74:579:10400
Linear Stability Analysis of Beam-Columns, with Lambert Tall, ST12:Dec 73:2439:10232
  Dsc: Roshdy S. Barsoum, ST8:Aug 74:1739: 10697; Sundaramoorthy Rajasekaran, ST11:Nov 74:2345:10899
  TR:139:531
Dsc, ST1:Jan 73:211:9462, of "Elastic Stability of Tapered I-Beams", ST3:Mar 72:713:8775
Dsc, ST7:July 73:1657:9826, of "Stiffness Analysis of Grids Including Warping", ST7:July 72:1511:9022
Dsc, ST11:Nov 73:2318:10113, of "Large Deflection Buckling of Space Frames", ST12:Dec 72:2701: 9455
Dsc, ST2:Feb 74:478:10306, of "Ultimate Strength of Biaxially Loaded Steel H-Columns", ST3:Mar 73: 469:9613
Dsc, ST2:Feb 74:483:10306, of "Buckling of Steel Columns at Elevated Temperatures", ST4:Apr 73: 715:9682

Tedesko, Anton
The Gap Between Intent and Performance -- Why Shortchange the Client?, CE:Feb 73:40
  Dsc: Robert F. Lathlaen, CE:June 73:26
  TR:139:54
Unusual Solutions, TB:73:Ia-4-807

Tedrow, Allan C.
See Chin-shu Liu, HY9:Sept 73:1369:10021

Teicholz, Paul
Labor Cost Control, CO4:Dec 74:561:11020
Requirements of Construction Company Cost System, CO3:Sept 74:255:10786

Teitgen, Fred C.
Engineer's Notebook: Effect Of Point Surcharge On Retaining Walls, with David R. Fiedler, CE:Nov 73:82

Tejchman, Andrzej F.
Model Investigations of Pile Groups in Sand, SM2: Feb 73:199:9579
  Dsc: Kalankamary P. George, SM12:Dec 73:1172: 10184
  Clo: GT10:Oct 74:1160:10838
  TR:139:270

Tejedor, L.
A Teleprocess System: The Spanish Offshore Network, WAVES:Sept 74:186

Teleki, P. G.
Bottom Boundary Shear Stresses on a Model Beach, with Melvin W. Anderson, 12CEC:71:269
Velocity and Shear Stress in Wave Boundary Layers, CE13:72:I-569

Tellemer, John M.
Flood Control Developed and Operated with Simulation, PP1:Jan 72:55:8661
  Errata: PP2:Apr 73:277:9638
  TR:138:154

Temchin, M.
See Joseph L. Ehasz, Jr., SDNPF:Dec 73:99

Templeman, Andrew B.
Dsc, ST3:Mar 72:777:8752, of "Optimum Beam Layout for Large Areas", ST8:Aug 71:2085:8304

Templer, John A.
Energy Cost and Stair Design: A Preliminary Report, with Paul J. Corcoran, MTI:May 72:67
Human Responses to Stairways, Walkways and Ramps: Some Recent Findings, BP73:Dec 73:137

Tene, Yair
Analysis of Skew Plates with Shear Deformation Using Natural Coordinates, with Izhak Sheinman, EM2:Apr 74:235:10487
See Marcelo Epstein, ST9:Sept 71:2189:8357

Tenney, Mark W.
See Wayne F. Echelberger, Jr., NSCD:71:563
See Kurt J. Guter, SA1:Feb 71:109:7865
See Wayne F. Echelberger, Jr., SA5:Oct 71:721:8472

Tennyson, E. L.
Mass Transit - Panacea for Urban Problems, NA:Mar 71:41

Terenzio, Vincent G.
Dsc, with Martin Hauptman and LeRoy Ericson, SA5:Oct 72:789:9225, of "Systems Analysis of Water Distribution Networks", SA6:Dec 71:825: 8575

Terrill, J. G.
Public Health Factors in Reactor Site Selection, with C. L. Weaver, E. D. Harward and J. M. Smith, SA3:June 69:545:6620
TR:136:3

Terstriep, Michael L.
Urban Runoff by Road Research Laboratory Method, with John B. Stall, HY6:Nov 69:1809:6878
Dsc: Ray K. Linsley, HY4:Apr 70:1100:7189; Leonard H. Watkins, HY7:July 70:1625:7384; Franklin F. Snyder, HY7:July 70:1626:7384; Harvey W. Duff and George C.C. Hsieh, HY7:July 70:1629:7384; D. Earl Jones, Jr., HY9:Sept 70:1879:7497
Clo: HY4:Apr 71:574:8012
TR:136:274

Terwindt, J. H.J.
See J. N. Svasek, CE13:72:II-865

Terzian, Carl L.
Dsc, CE:Oct 71:76, on Auto Race Facility: Tracks for Indianapolis, Grand Prix, Dragsters-All in One, CE:May 71:39

Terzidis, George
Computational Schemes for the Boussinesq Equation, IR4:Dec 68:381:6276
TR:136:609
Computation of Open-Channel Surges and Shocks, with Theodor S. Strelkoff, HY12:Dec 70:2581:7780
Dsc: C. Samuel Martin, HY7:July 71:1159:8223
TR:137:848
Dsc, IR1:Mar 68:159:5826, of "Falling Water Table Between Tile Drains", IR2:June 67:9:5258

Tesarik, Igor
Dsc, SA4:Aug 69:793:6706, of "Defined Velocity Gradient Model Flocculator", SA4:Aug 68:671:6076
Dsc, SA1:Feb 72:259:8682, of "Physical Behavior of Flocculent Suspensions in Upflow", SA2:Apr 71:209:8054

Tessier, M. J.
See S. M. Cho, HYB:Aug 73:141

Testin, Robert F.
Processing and Recovery of Municipal Solid Waste, with Neil L. Drobny, SA3:June 70:699:7345
TR:136:1266

Teter, Roger D.
See Norman A. Cyr, ST7:July 72:1585:9068

Tewinkel, G. Carper
Regional Control Supplied by Photogrammetry, SU1:May 71:13:8136
TR:137:358

Tewksbury, Dennis L.
The Responsibility Is Ours, CE:June 70:83

Tezcan, Semih S.
Earthquake Design Formula Considering Local Soil Conditions, ST9:Sept 71:2383:8399
Dsc: Melvin W. Jackson, ST2:Feb 72:541:8684; David A. Howells, ST4:Apr 72:944:8802; Peter W. Taylor, ST6:June 72:1336:8930; Ephraim Spira and Jacob Gluck, ST6:June 72:1339:8930
Clo: ST12:Dec 73:2479:10185
TR:139:4
Finite Element Analysis Of Hyperbolic Paraboloid Shells, with Krishna M. Agrawal and George Kostro, EC5:70:675
Finite Element Analysis of Hyperbolic Paraboloid Shells, with Krishna M. Agrawal and George Kostro, ST1:Jan 71:407:7847
Dsc: Cheruvathur I. Mathew, ST10:Oct 71:2619:8411
TR:137:871
Tangent Stiffness Matrix for Space Frame Members, with Bijay C. Mahapatra, ST6:June 69:1257:6627
TR:136:730
Dsc, with Bulent Ovunc, ST2:Feb 69:308:6373, of "Curved Beam Stiffness Coefficients", ST5:May 68:1165:5947
Dsc, with Bijay C. Mahapatra, ST3:Mar 69:519:6430, of "Nonlinear Analysis of Elastic Framed Structures", ST6:June 68:1525:6011
Dsc, with Bulent Ovunc and Bijay C. Mahapatra, ST3:Mar 69:543:6430, of "Stability Analysis of Frameworks by Matrix Methods", ST7:July 68:1745:6032
Dsc, with George Kostro, ST2:Feb 70:421:7047, of "Efficient Solution of Load-Deflection Equations", ST4:Apr 69:661:6510
Dsc, ST11:Nov 73:2327:10113, of "Large Displacement Analysis of Thin Plates", ST3:Mar 73:349:9593
See H. Turan Durgunoglu, GT12:Dec 74:1303:10973

Thackston, Edward L.
Predicting Effects of Dead Zones on Stream Mixing, with Karl B. Schnelle, Jr., SA2:Apr 70:319:7218
Dsc: Barry A. Benedict, SA1:Feb 71:112:7865
Errata: SA4:Aug 71:525:8269
Clo: SA5:Oct 71:756:8409
TR:136:1322
Reaeration Prediction in Natural Streams, with Peter A. Krenkel, SA1:Feb 69:65:6407
Dsc: J. S. Shastry, Liang-Tseng Fan and L. E. Erickson, SA6:Dec 69:1186:6931; Kuan M. Yao, SA6:Dec 69:1189:6931; SA4:Aug 70:1000:7441
TR:135:1059
Dsc, with Peter A. Krenkel, SA2:Apr 69:354:6485, of "Atmospheric Oxygenation in a Simulated Stream", SA2:Apr 68:319:5905
Dsc, PO2:Oct 69:364:6801, of "Northfield Mountain Pumped Storage Project", PO2:Nov 68:199:6247
See Peter A. Krenkel, SA1:Feb 69:37:6406

Thailer, Henry J.
See Kiran M. Vashi, SDNPF:Dec 73:173

Thakkar, Manhar C.
Minimum Reinforcement in Clamped Square Slabs, with Jawalker K. Sridhar Rao, TN: ST3:Mar 70:751:7118
Optimal Design of Prestressed Concrete Poles, with Bakul S. Bulsari, ST1:Jan 72:61:8632
Dsc: Madasamy Arockiasamy and S. Sridharan, ST1:Jan 73:206:9462
Errata: ST1:Jan 73:208:9462
TR:138:77
Dsc, with Jawalker K. Sridhar Rao, ST8:Aug 70:1837:7442, of "Behavior of Simply Supported Slabs", ST12:Dec 69:2703:6945
Dsc, with Jawalker K. Sridhar Rao, ST7:July 71:2028:8225, of "Optimization of Redundant Prestressed Structuree", ST12:Dec 70:2589:7755
See Bakul S. Bulsari, ST8:Aug 70:1835:7442
See Jawalker K. Sridhar Rao, ST5:May 72:1198:8861

Thakkar, Shashi K.
See Anand S. Arya, EM1:Feb 71:109:7929
See Anand S. Arya, EM2:Apr 71:317:8010

Thamo, Gabriel
Dsc, IR3:Sept 71:525:8346, of "Irrigation Channel Structures, Victoria, Australia", IR2:June 70:131:7371

Thandaveswara, B. S.
Dsc, HY2:Mar 69:729:6433, of "Flow Around 180 Degree Bends in Open Rectangular Channels", HY4:July 68:893:6027
Dsc, HY1:Jan 71:202:7783, of "Open Channel Expansions Fitted with Local Hump", HY5:May 70:1105:7257

Tharp, Edward L.
The Abstraction of Civil Engineering Students, with Ralph H. Clark, CEE:Feb 74:1-559

Tharp, T. M.
See Bezalel C. Haimson, RM14:73:748

Thau, Stephen A.
Seismic Motion of Buildings with Buried Foundations, with Andrej Umek and Rouben Rostamian, EM5:Oct 74:919:10870
Dsc, with Martin A. Salmon, EM1:Feb 73:225:9522, of "Shear Waves in Plane Infinite Structures", EM1:Feb 72:85:8716

Theis, Thomas L.
Dsc, with Philip C. Singer, Wayne F. Echelberger, Jr. and Mark W. Yenney, SA4:Aug 70:1004:7441, of "Phosphate Removal: Summary of Papers", SA5: Oct 69:803:6807
See Philip C. Singer, SA5:Oct 72:784:9225

Thelen, Edmund
Dsc, CE:Nov 72:75

Theron, W. F.D.
See M. J.L. Hussey, ST3:Mar 71:753:7954

Theuer, Paul J.
Dsc, A Proposal for ASCE, CE:Oct 71:38

Thiel, Floyd I.
Beltway and Tax Base Impacts, UP1:Mar 73:105: 9619
TR:139:253

Thieme, Reinhold W.
The Cost of Pollution, WQEF:Mar 70:29

Thierauf, Georg
Dsc, ST5:May 70:1004:7250, of "Buckling Loads of Nonuniform Columns", ST11:Nov 69:2419:6908

Thiers, Gerald R.
Cyclic Stress-Strain Characteristics of Clay, with H. Bolton Seed, SM2:Mar 68:555:5871
Dsc: Mehmet A. Sherif, SM3:May 69:898:6525
Clo: SM6:Nov 69:1547:6894
TR:135:306
Dsc, SM2:Mar 69:662:6429, of "Vibration Modulus of Normally Consolidated Clay", SM2:Mar 68:353: 5833
See Richard D. Ellison, SM4:Apr 71:661:8052

Thigpen, Lewis
Projectile Penetration of Elastic-Plastic Earth Media, GT3:Mar 74:279:10414

Thill, Richard E.
Acoustic Methods for Monitoring Failure in Rock, RM14:73:649

Thirumalai, Kuppusamy
Development and Potentials of Moire Method of Strain Analysis for Rock Testing, with R. L. Fischer, RM13:72:727
A Study on a New Concept of Thermal Hard Rock Crushing, with John B. Cheung, RM14:73:527
See John B. Cheung, TN: EM2:Apr 74:463:10455

Thirumurthi, D.
Design Principles of Waste Stabilization Ponds, SA2: Apr 69:311:6515
TR:135:126

Thiruvengadachari, S.
Dsc, HY8:Aug 73:1277:9895, of "Boundary Effects on Stability of Structures", HY9:Sept 72:1557:9199

Thode, Edward F.
See E. I. Onstott, EE6:Dec 73:897:10196

Thoem, Robert L.
Dsc, EE5:Oct 73:750:10035, of "Basic Data for Solid Waste: A Pilot Study", SA6:Dec 72:897:9424

Thom, Herbert C.S.
Distributions of Extreme Winds Over Oceans, WW1: Feb 73:1:9556
Errata: WW1:Feb 74:56:10308
TR:139:185
Extreme Wave Height Distributions Over Oceans, WW3:Aug 73:355:9939
Dsc: Subrata K. Chakrabarti, WW2:May 74:163: 10509; Jade Dattatri, WW4:Nov 74:402:10903
TR:139:436
New Distributions of Extreme Winds in the United States, ST7:July 68:1787:6038
Clo: ST8:Aug 69:1769:6707
TR:135:695
Wind and Surge Damage Due to Hurricane Camille, with R. D. Marshall, WW2:May 71:355:8144
Dsc: Melvin W. Jackson, WW4:Nov 71:775:8488; Herbert S. Saffir, WW2:Feb 72:132:8686; James F. Halsey and Reid S. Cummins, WW1:Feb 72: 135:8686
Clo: WW4:Nov 72:9310
TR:137:936

Thoma, A. F.
Model Tests with Thin Sheets to Reduce Evaporation, IR2:June 73:117:9779
Errata: IR4:Dec 74:513:10975
TR:139:299
Dsc, IR3:Sept 74:397:10771, of "Evaporation Reduction with Reflective Covers", IR3:Sept 73: 353:9982

Thoma, Rudiger
Service Systems in Relation to Architecture, State-of-Art Report 1, TB:73:Ia-2-307

Thomack, Frederick P.
See James D. Gruendler, SU1:July 72:93:9053

Thomann, Robert V.
Preliminary Model of Potomac Estuary Phytoplankton, with Dominic M. Di Toro and Donald J. O'Connor, EE3:June 74:699:10576
Variability of Waste Treatment Plant Performance, SA3:June 70:819:7380
TR:136:1168
See George D. Pence, SA2:Apr 68:381:5915

Thomas, Anthony Rylands
Dsc, HY7:July 70:1623:7384, of "Investigation of Brahmaputra River", HY5:Sept 69:1687:6793
Dsc, HY9:Sept 70:1894:7497, of "Local Scour Around Bridge Piers", HY6:Nov 69:1919:6891
Dsc, HY11:Nov 71:1915:8483, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams", HY1:Jan 71:101:7786

Thomas, Clifford
See Richard Crenshaw, TB:73:Ia-4-797

Thomas, Francis M.
See Frederick A. Smith, Jr., ST3:Mar 70:613:7165

Thomas, Fred W.
TVA's Air Quality Management Program, PO1:Mar 69:131:6483
TR:135:21

Thomas, Henry H.
Concrete Production and Placing at Gordon Dam, Tasmania, ECCD:72:299
The Use of Prestressing in Dams in Tasmania, ECCD:72:287

Thomas, Howard P.
Dsc, PES:73:III-176, of "Settlement Due to Chemical Attack of Soils", PES:72:I-1087

Thomas, Jimmie L.
A Counter-Perspective on Pollution Problems, CE: Aug 74:80

Thomas, Lindon C.
A Model for Turbulent Transfer in the Wall Region, with Liang-Tseng Fan, TN: EM1:Feb 71:169:7858

Thomas, Marlin U.
Dsc, EE6:Dec 74:1290:10971, of "Systems Analysis and Solid Waste Planning", EE1:Feb 74:7:10316

Thomas, P. K.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-519

Thomas, Richard E.
Hydrology of Spray-Runoff Wastewater Treatment, with James P. Lae, Jr. and Curtis C. Harlin, IR3: Sept 70:289:7538
  Errata: IR3:Sept 71:535:8346
  TR:136:1150

Thomas, Robert H.
Dsc, SA4:Aug 70:1017:7441, of "Time-Capacity Expansion of Waste Treatment Systems", SA6:Dec 69:1063:6957

Thomas, Roy James
Memoir of, TR:135:1147

Thomas, W. C., Jr.
See Riley N. Kinman, 4NSCD:71:11

Thomas, Walter G.
Dsc, PO1:Mar 69:147:6442, of "Electric Transmission Tower Design", PO1:May 68:1:5932

Thomas, Will A.
See Eduardo Aguado, HY7:July 74:869:10639

Thomas, Zdenek
Dsc, HY8:Aug 73:1274:9895, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Thomopoulos, N. T.
Dsc, with Anatole Longinow, ST8:Aug 74:10697, of "Structural Risk Analysis and Reliability-Based Design", ST9:Sept 73:1891:10011

Thompson, Andrew
See Hillel I. Shuval, NSCD:71:429

Thompson, Bruce J.
Planning Economical Tunnel Surveys, SU2:Nov 74: 95:10906

Thompson, David
See Gary Brierley, SM11:Nov 72:1273:9306

Thompson, Edward F.
Results from the CERC Wave Measurement Program, WAVES:Sept 74:836

Thompson, Erik G.
In Situ Creep Analysis of Room in Frozen Soil, with Francis H. Sales, SM9:Sept 72:899:9202
  Dsc: William E. Kelly, SM7:July 73:571:9825
  Clo: GT2:Feb 74:179:10304
  TR:139:132

Thompson, F. G.
Strengthening of John Hollis Bankhead Dam, CE: Dec 69:75
  TR:135:1072

Thompson, J. G.S.
See D. Wermenlinger, PO2:Mar 71:515:7974

Thompson, Kenneth
See Alan F. Babb, HY7:July 73:1097:9859

Thompson, Louis J.
See Wayne A. Dunlap, PITO:74:29

Thompson, Major H., Jr.
Wallace Dam, PO2:Oct 72:333:9259
  TR:138:550

Thompson, Marshall R.
Deep-Plow Lime Stabilization for Pavement Construction, TE2:May 72:311:8858
  TR:138:107
Evaluation of Quick Test For Lime Stabilization, with James L. Eades, TN: SM2:Mar 70:795:7117
Lime-Treated Soils for Pavement Construction, HW2: Nov 68:191:6249
  Errata: TE4:Nov 69:694:6868
  TR:135:715
See John J. Allen, TE4:Nov 74:827:10911

Thompson, Morgan H.
Some Construction Aspects of Tarbela Dam, CO3: Sept 74:247:10799

Thompson, Morris M.
Mapping for Changing Environment, SU1:Oct 69:35: 6818
  Dsc: Philip Kissam, SU2:Sept 70:301:7501; Max O. Laird, SU2:Sept 70:302:7501
  Clo: SU1:May 71:141:8085
  TR:136:339
Ten-Year Research Program in Surveying and Mapping, SU2:Oct 67:9:5486
  Dsc: Franklin K. Van Zandt, SU2:Sept 68:278: 6091
  Clo: SU1:Oct 69:171:6804
  TR:135:412
Water Features on Topographic Maps, SU1:July 72:1: 9018
  Dsc: Robert D. Turpin, SU1:Sept 73:135:9965
  Clo: SU1:May 74:81:10507
  TR:139:105

Thompson, T. L.
See E. J. Wasp, TE2:Apr 71:271:8106

Thompson, Thomas F.
Dsc, SM1:Jan 71:277:7785, of "Review of Shearing Strength of Rockfill", SM4:July 70:1159:7394

Thompson, Tommie R.
See Robert Wm. Little, EM5:Oct 72:1239:9251

Thompson, Warren C.
Period by the Wave Group Method, CE13:72:I-197
Swell and Storm Characteristics from Coastal Wave Records, 12CEC:71:33
Wave Groups in Ocean Swell, with Raymond C. Smith, Jr., WAVES:Sept 74:338

Thoms, Robert Lee
Finite Element Analysis of Rock-Salt Pillar Models, with Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393

Thomson, Alexander
See T. Nadesamoorthy, HY12:Dec 72:2234:9391

Thon, J. George
Modernization of Dams on Salt River, with John W. O'Hara and Clarence H. Whalin, PO1:Jan 70:157: 7039
  TR:136:466
Power Supply for the BART System, with Martin W. McLaren, TE1:Feb 69:97:6411
  TR:135:977
Slurry Wall Construction for BART Civic Center Subway Station, with Richard C. Harlan, SM9:Sept 71:1317:8361
  TR:137:776
Systems Approach to Power Planning, HY4:Apr 73: 589:9661
  TR:139:256

Thorn, Robert B.
Dsc, PP2:Apr 72:177:8857, of "Professional Recognition -- How?", PP2:Apr 72:169:8857

Thornton, Charles H.
Hangar Features Stressed-Skin Hypars, with Richard L. Tomasetti, CE:Nov 70:54
  TR:136:1044

Thornton, Edward B.
Distribution of Sediment Transport Across the Surf Zone, CE13:72:II-1049
Spectral Resolution of Breakwater Reflected Waves, with Ronald J. Calhoun, WW4:Nov 72:443:9318
Clo: WW2:May 74:153:10509
TR:139:51
Variation of Longshore Current Across the Surf Zone, 12CEC:71:291

Thornton, Richard J.
Leachate Treatment By Coagulation and Precipitation, with Frederick C. Blanc, EE4:Aug 73:535:9946
TR:139:305

Thornton, William A.
Dsc, with James W. Gorzynski, ST12:Dec 73:2502:10185, of "Dynamic Matrix of Timoshenko Beams Columns", ST3:Mar 73:527:9595
See James W. Gorzynski, TN: EM4:Aug 74:823:10692

Thorpe, Geoffrey R.
See Thomas L. Shaw, PO1:Jan 71:159:7810
See Charles K. Haswell, PO2:Oct 72:201:9297

Thorpe, William G.
Dsc, CO2:Sept 72:363:9155, of "Changed Soil and Rock Conditions in Construction", CO2:Nov 71:257:8509

Thorsky, Gunnar N.
Dsc, with Phil C. Haggman, HY4:Apr 70:1069:7189, of "Development of Roll-Wave Trains in Open Channels", HY4:July 69:1401:6704

Thorson, Bruce M.
Dsc, SM11:Nov 73:1028:10112, of "Use of Cycloidal Arcs for Estimating Ditch Safety", SM2:Feb 73:165:9566

Thorson, Donald A.
Rapid Creek Watershed, HYB:Aug 73:449

Thorup, Robert T.
See Otis J. Sproul, NSCD:71:385

Thrasher, William J.
Dsc, ST10:Oct 70:2238:7570, of "How Safe Are Your Towers?", ST1:Jan 70:1:6994

Thurlimann, Bruno
Elastic Analysis-Strength of Members and Connections, Summary Report, TB:73:III-21-325

Thurman, Allen G.
See Francis J. Jacques, CE:Aug 72:9

Tibbs, Harold E.
Summary of Workshop A - Shotcrete Construction and Equipment, SUSS:July 73:143

Tichenor, Bruce A.
Cooling Pond Temperature Versus Size and Water Loss, with Alden G. Christianson, PO3:July 71:589:8250
Dsc: George F. Bailey and John C. Sonnichsen, Jr., PO1:June 72:175:8927
Clo: PO1:May 73:9690
TR:137:1024
See Lawrence D. Winiarski, SA4:Aug 70:927:7461

Tichy, Milik
See Fred Moses, TB:73:Ib-10-993

Tide, Raymond H. R.
Dsc, ST8:Aug 70:1819:7442, of "Buckling Loads of Nonuniform Columns", ST11:Nov 69:2419:6908

Tiederman, William G.
Feasibility of Hydrocyclones for Dredge Spoil, with Michael M. Reischman, WW4:Nov 74:361:10953
See John E. Herod, TN: 1974

Tien, Chi
See Jeffrey S. Hsieh, SA4:Aug 71:505:8339

Tienstra, M.
See L. H. Holthuijsen, WAVES:Sept 74:153

Tierney, Gerald F.
See Robert P. Shubinski, UT73:May 73:179

Tietgen, Ron
Dade County Bikeways, BP73:Dec 73:286

Tietjen, Cord
Compost for Agricultural Land, with Samuel A. Hart, SA2:Apr 69:269:6506
TR:135:143

Tihansky, Dennis P.
Damage Assessment of Household Water Quality, EE4:Aug 74:905:10700
Dsc, HY9:Sept 74:1287:10770, of "Quality Related Costs of Regional Water Users", HY10:Oct 73:1849:10076

Tikhe, Madhav L.
Dsc, SA2:Apr 72:463:8800, of "Estimating Eutrophic Potential of Pollutants", SA4:Aug 71:453:8333
Dsc, SA6:Dec 72:1044:9393, of "Disinfection of Algal Laden Waters", SA5:Oct 71:721:8472
Dsc, EE4:Aug 74:1043:10693, of "Design of High-Rate Settlers", EE5:Oct 73:621:10051

Tilker, Paul
Application of PL-566 to Drainage Problem, IRS:Sept 72:17

Tillman, C. C., Jr.
See Robert Chung-Yi Lo, SM1:Jan 69:342:6324

Tillman, Donald C.
Venice Waterways Project Impact Reports, with Lloyd D. Paulsen, UP2:Nov 74:191:10935
See Robert D. Bargman, EE6:Dec 73:939:10204

Tillman, Frank A.
Model for Planning a Transportation System, TE2:May 70:229:7289
TR:136:886
See Monroe L. Funk, HW2:Nov 68:255:6215

Tillotson, Robert T.
Dsc, PL1:Oct 68:199:6133, of "Use of Pipelines in the California Water Project", PL3:Nov 67:25:5584

Tilp, Paul J.
Summary of Workshop C - Shotcrete Quality Control and Instrumentation, SUSS:July 73:351

Timby, Elmer K.
Civil Engineering Management in Private Practice, PP1:July 69:17:6661
Dsc: Robert L. McFall, PP1:Sept 70:151:7549
Clo: PP10:Oct 71:226:8408
TR:136:88
Implementation, TB:73:C-DM-225
What Should Civil Engineering Education Accomplish?, CEE:Feb 74:1-302
Dsc, PP2:Apr 73:166:9638, of "How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal", PP2:Apr 73:159:9663

Timme, Richard C.
See Homer I. Sargeant, WAVES:Sept 74:433

Timmerman, D. H.
Behavior of Dry Sands under Cyclic Loading, with Tien H. Wu, SM4:July 69:1097:6698
Dsc: Warren L. Schroeder, SM3:May 70:1071:7249
Clo: SM2:Feb 71:477:7866
TR:136:186

Timoshenko, Stephen P.
Prof. Timoshenko Dies, CE:Oct 72:108

Tinch, William R.
See Donald H. Orme, EC5:70:645
See Donald H. Orme, ST1:Jan 71:393:7840

Ting, Raymond M.L.
Dsc, EM5:Oct 74:1062:10837, of "Flexural Wrinkling in Foam-Filled Sandwich Panels", EM1:Feb 74:95:10370

Tingh, Tara
Dsc, Mushrooming Technical Meetings, CE:July 74:21

Tinney, E. Roy
Research Needs in Civil Engineering Aspects of Power, Report of the Research Commission, Power Division, ASCE, PO1:May 68:33:5935
Dsc: Adolf A. Meyer, PO1:Mar 69:150:6442
Clo: PO1:Jan 71:221:7784
TR:135:664
Research Needs in the Civil Engineering Aspects of Power, PO2:Feb 70:187:7073
See Mostafa M. Soliman, HY4:July 68:893:6027

Tirabassi, Michael A.
See Arthur Lesser, Jr., EI1:Jan 74:61:10279

Tiry, Robert F.
See Joseph W. Fortey, CE:May 72:44

Tischler, Lial F.
See Milton L. Holloway, IR3:Sept 74:211:10784

Tison, Gerard, Jr.
See Dirk Clays, HY4:July 68:1160:6015

Toakley, A. Raymond
See Geoffrey G. Roy, ST8:Aug 70:1832:7442
See A. F. Brotchie, UP1:Mar 73:25:9587

Toakley, Michael Raymond
Project Selection Based on Benefits and Costs, with John F. Brotchie, CO2:Sept 72:149:9163
TR:138:308

Tochacek, Miloslav
Design Concepts for Prestressed Steel Structures, TB:73:II-19-883
Economical Design of Prestressed Plate Girder, with Champa L. Mehta, ST6:June 72:1273:8973
Errata: ST4:Apr 73:795:9640
TR:138:298

Tocher, James L.
See Carlos A. Felippa, ST2:Feb 70:422:7047
See Egor P. Popov, ST11:Nov 72:2626:9307

Todd, David K.
Hydrology and Geology of Honolulu Aquifer, with Charles F. Meyer, HY2:Feb 71:233:7910
Dsc: Doak C. Cox, L. Stephen Lau and Frank L. Peterson, HY12:Dec 71:2095:8552; Paul C. Ekern, HY12:Dec 71:2100:8552
Clo: HY7:July 72:1329:9000
TR:137:626
See Avdhesh K. Tyagi, HY8:Aug 70:1734:7439

Toebes, Gerrit H.
See Jacques W. Delleur, HY6:Nov 69:1993:6901

Toennies, Henry T.
New Mortars, Prefab Walls Transform Concrete Masonry, CE:July 73:46
TR:139:272

Toffaleti, Fred B.
Definitive Computations of Sand Discharge in Rivers, HY1:Jan 69:225:6350
Dsc: Joe C. Willis, HY6:Nov 69:2185:6866
Errata: HY6:June 70:1352:7310
TR:135:239

Toftner, Richard O.
See Robert M. Clark, SA4:Aug 70:885:7449
See Robert M. Clark, SA1:Feb 71:33:7875

Tokarz, Frank J.
Experimental Study of Lateral Buckling of Arches, ST2:Feb 71:545:7893
Dsc: Filomeno N. Almeida, ST10:Oct 71:2621:8411; S. Olof Asplund, ST10:Oct 71:2623:8411
TR:137:874
Lateral-Torsion Buckling of Parabolic Arches, with Raghbir S. Sandhu, ST5:May 72:1161:8922
TR:138:280
See Morris Ojalvo, ST10:Oct 69:2305:6865

Tokola, Alpo J.
Erecting the Center Span of the Fremont Bridge, CE:July 73:62
TR:139:291

Toksoz, Sadik
Steady Drainage of Layered Soils: II, Nomographs, with Don Kirkham, IR1:Mar 71:19:7986
TR:137:883
Steady Drainage of Layered Soils: I, Theory, with Don Kirkham, IR1:Mar 71:1:7985
TR:137:880

Toland, Richard H.
Random Walk Model for First-Passage Probability, with Cheng Y. Yang, EM3:June 71:791:8200
TR:137:272

Tolunay, A. Zeki
See Donald H. Shields, SM12:Dec 73:1043:10221

Toma, Satoshi
See Hideo Kondo, CE13:72:III-1847

Tomasetti, Richard L.
See Charles H. Thornton, CE:Nov 70:54
See Lev Zetlin, NA:Mar 71:123

Tomii, Masahide
Japanese Structural Standards for Reinforced Concrete Buildings, TB:73:III-20-125
Shear Walls, State-of-Art Report 4, TB:73:III-21-203

Tominaga, Masanari
See Koichi Akai, PES:72:I-341

Tomko, John J.
See Robert H. Scanlan, SM2:Mar 69:583:6468
See Robert H. Scanlan, EM6:Dec 71:1717:8609

Tomlin, Geoffrey R.
Elastic Analysis of Zoned Orthotropic Continua, with Roy Butterfield, EM3:June 74:511:10604

Tomlinson, George E.
Public Service Facilities and the Environment, PWS:Nov 72:95
Dsc: William W. Moore, PWS:Nov 72:113
Clo: PWS:Nov 72:114

Tomlinson, K. W.
See W. A. Price, 12CEC:71:995
See W. A. Price, 12CEC:71:1053
See W. A. Price, CE13:72:II-1321
See W. A. Price, CE13:72:II-1401

Tomlinson, Raymond W.
New Distance Measuring Instruments, SU2:Sept 70:149:7521
TR:136:868

Tomonaga, Kazuo
Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, TB:73:Ib-9-833

Tomsho, George M.
Public Works Engineering and Administration- The Pittsburgh Experience, with Joel I. Abrams, CEE:Feb 74:1-723

Tonning, Kristian
Three Support Systems Used to Build Bridge Substructure, CE:Dec 71:43
TR:137:773

Topper, T. H.
See H. R. Jhansale, ST3:Mar 69:523:6430

Toprac, A. Anthony
Fatigue Strength of Hybrid Plate Girders, with Murugesam Natarajan, ST4:Apr 71:1203:8069
Dsc: Kenneth N. Smith, ST11:Nov 71:2767:8485
Clo: ST5:May 72:1190:8861
TR:137:562
Dsc, ST11:Nov 69:2539:6867, of "Elasto-Plastic Deflection of Tubular Beams", ST2:Feb 69:159:6379
See Hacik Erzurumlu, ST4:Apr 72:813:8823

Toren, Ralph L.
Art of Agricultural Drainage Design and Costs, IR73:Aug 73:557
Dsc, IR1:Mar 74:96:10380, of "Undesirable Plant Responses with Sewage Irrigation", IR2:June 73:133:9783

Torgersen, Paul E.
Bidding--Work Loading Game, with Richard M. Wyskida and Leonard S. Yarbrough, CO2:Oct 68:127:6141
Dsc: John D. Bristor, CO1:July 69:139:6640
Clo: CO1:June 70:81:7308
TR:135:1086

Torget, W. E.
Innovations in Barge Transportation on Columbia River, with Rowena Funston, WW2:May 70:411:7290
TR:136:968

Toridis, Donald G.
Inelastic Response of Frames to Dynamic Loads, with Khalilollah Khozeimeh, EM3:June 71:847:8205
TR:137:282

Tornberg, Gordon F.
See Nobuyuki Tamai, PO2:Oct 69:253:6847
See Robert L. Wiegel, WW2:May 70:307:7279

Torno, Harry C.
Dsc, HY8:Aug 74:1179:10696, of "Testing Methods for Determination of Urban Runoff", HY9:Sept 73:1319:9987

Torpen, Bernhardt E.
Memoir of, TR:135:1147

Torrance, Andrew M.
Dsc, with George H. Caddie, HY5:May 72:960:8859, of "Sampling Procedures for Coarse Fluvial Sediments", HY8:Aug 71:1165:8279

Torrance, J. Kenneth
Dsc, SM1:Jan 70:360:6989, of "Causes of Clay Sensitivity", SM3:May 69:845:6568

Torres, F. L.
See C. M. Arce, 4PCSM:71:II95

Torri, Joseph F.
See Alfred E. Caswell, EPCE:Aug 74:587

Torum, Alf
Dsc, BMS:71:146, of "Full Scale Observation of the Behavior of Moored Ships", BMS:71:117
Dsc, WW2:May 74:158:10509, of "Wave Forces on Submerged Objects of Symmetry", WW2:May 73:147:9698

Tossey, DeFro
Tertiary Treatment by Flocculation and Filtration, with Paul J. Fleming and Ronald F. Scott, SA1:Feb 70:75:7106
TR:136:484

Toth, William E.
See Leslie G. Bromwell, 4PCSM:71:II333

Tottenham, Hugh
Cable Net: Continuous System Analysis, with Paul G. Williams, EM3:June 70:277:7347
TR:136:1187
See Umesh Chandra Tahbildar, ST11:Nov 70:2321:7681

Touma, Fadlo T.
Behavior of Bored Piles in Sand, with Lymon C. Reese, GT7:July 74:749:10651

Tour, Harry Bird
Memoir of, TR:137:1072

Tournier, J. P.
See Oscar Dascal, PES:72:I-129

Toves, Peter C.
Dsc, Solid Waste in Guam, CE:Feb 74:20

Tovey, N. Keith
Dsc, with David H. Krinsley, SM4:Apr 71:691:8014, of " Effect of Particle Characteristics on Soil Strength", SM4:July 70:1221:7393
Dsc, SM4:Apr 71:694:8014, of "Engineering Behavior and Structure of Compacted Clay", SM4:July 70:1171:7397

Tovey, Rhys
Alfalfa Water Table Investigations, IR4:Dec 69:525:6974
TR:136:316

Towery, Neil G.
See Wyndham J. Roberts, SA6:Dec 70:1349:7745

Towlerton, Alan T.
See Takashi Asano, EE4:Aug 74:855:10707

Townsend, David R.
Control of Ice Jams at Barrett Chute G.S., PO3:July 71:597:8244
TR:137:235
Design Criteria for Submarine Pipeline Crossings, with Donald W. Farley, HY10:Oct 73:1659:10070
Dsc: Ben A. Nwachukwu, HY8:Aug 74:1186:10696
TR:139:417
Dsc, HY6:Nov 69:2182:6866, of "Some Turbulence Measurements in Open-Channel Flow", HY1:Jan 69:209:6349

Tozzoli, Anthony J.
Containerization and Its Impact on Port Development, WW3:Aug 72:333:9126
Dsc: Frederick E. Camfield, WW2:May 73:290:9694
Clo: WW4:Nov 73:498:10114
TR:139:33
Planning and Construction of the Elizabeth N.J. Port Authority Marine Terminal, with John S. Wilson, CE:Jan 69:34
TR:135:43
Water Used to Preload Unstable Subsoils, with Donald L. York, CE:Aug 73:56
Errata: CE:Oct 73:28
TR:139:352

Tracy, Hubert J.
Dsc, HY11:Nov 70:2399:7641, of "Distribution of Tractive Force in Open Channels", HY7:July 70:1469:7415

Traetteberg, A.
Dsc, WW2:May 69:230:6528, of "Stability Tests of Interlocking Block Revetment", WW3:Aug 68:331:6079

Trahair, Nicholas S.
Buckling of Inelastic I-Beams Under Uniform Moment, with Sritawat Kitipornchai, ST11:Nov 72:2551:9339
Dsc: Miklos Ivanyi, ST12:Dec 73:2492:10185
Clo: ST10:Oct 74:2145:10834
TR:139:140
Deformations of Geometrically Imperfect Beams, ST7:July 69:1475:6682
Dsc: Joseph A. Yura, STA1:Jan 70:162:6990; Alois J. Hartmann, ST4:Apr 70:859:7191
Clo: ST11:Nov 70:2523:7644
TR:136:179
Effect of Major Axis Curvature on I-Beam Stability, with Scott T. Woolcock, EM1:Feb 73:85:9548
Errata: EM6:Dec 73:1306:10181
TR:139:219
Elastic Lateral Buckling of Stepped I-Beams, with Sritawat Kitipornchai, ST10:Oct 71:2535:8445
TR:137:1038
Elastic Stability of Continuous Beams, ST6:June 69:1295:6632
Dsc: Ganpat S. Pandit, ST3:Mar 70:739:7116
Clo: ST9:Sept 70:1966:7567
TR:136:138
Restrained Elastic Beam-Columns, ST12:Dec 69:2641:6941
TR:136:421
Dsc, with Peter T. Brown, ST8:Aug 70:1817:7442, of "Buckling Loads of Nonuniform Columns", ST11:Nov 69:2419:6908
Dsc, with Sritawat Kitipornchai and Gregory J. Hancock, EM6:Dec 71:1753:8551, of "Lateral Stability of Nonuniform Cantilevers", EM3:June 71:673:8172
See John M. Anderson, ST1:Jan 72:269:8646
See Sritawat Kitipornchai, ST3:Mar 72:713:8775
See Porpan Vacharajittiphan, ST5:May 73:821:9720
See Bruce R. Mutton, ST10:Oct 73:2167:10086
See Thepchai Poowannachaikul, EM1:Feb 74:134:10303
See Porpan Vacharajittiphan, ST3:Mar 74:547:10390
See Scott T. Woolcock, EM2:Apr 74:151:10471

Trammell, Joel H.
See Robert W. Mikitka, PO1:Jan 71:252:7784

Trautman, William R.
A Case Study of Water Supply & Flood Plain Zoning, IAWM:72:193

Travaini, Dario
Memoir of, TR:139:577

Treacy, Thomas B.
Landmark New York Cases on the Question of Liability of the State in Withholding Subsurface Information, CEWAU:74:195

Treadwell, George T.
Regional Application of ASCE Manual No. 50, with Robert V. Kycek, WW1:Feb 71:123:7883
TR:137:879
Report on Small Craft Harbors, 1970, 139 pp.
TR:135:1100

Treiterer, Joseph
Design of Hamburg's New Airport Terminal, TE3:Aug 70:403:7483
TR:136:1120

Treloar, P. D.
Energy Losses under Wave Action, with A. Brebner, 12CEC:71:257

Trent, Roy E.
See George K. Young, Jr., HY7:July 74:971:10676

Trescott, Peter C.
Digital Model of Alluvial Aquifer, with George F. Pinder and John F. Jones, WW3:May 70:1115:7264
Dsc: Robert L. McFall, HY11:Nov 70:2398:7641
Clo: HY6:June 71:870:8155
TR:136:729

Treybig, Harvey J.
Effect of Load Placement on Rigid Pavement Behavior, with William Ronald Hudson and B. Frank McCullough, TE4:Nov 71:681:8543
Dsc: Peter C. Oluonye, TE4:Nov 72:1074:9309
Clo: TE2:May 73:423:9691
TR:138:6

Triandafilidis, George E.
Dsc, 4PCSM:72:III76, of "The Standard Penetration Test", 4PCSM:71:II
See Dale E. Stephenson, GT2:Feb 74:101:10367
See Raman Pichumani, TE2:May 74:293:10516

Tribus, Myron
Integrity and the Ecological Crisis, PP1:Jan 72:25:8677
Dsc: Raphael G. Kazmann, PP4:Oct 72:732:9224; Charles D. Crosthwaite, PP4:Oct 72:729:9224
TR:138:227

Trigo, J. Teixeira
See Jose Marecos, ST4:Apr 69:555:6492

Trinidad, A. A., Jr.
Double-Decking an Expressway, CE:Dec 69:59
TR:135:1030

Tripp, James G.
Memoir of, TR:138:645

Troitsky, Michael S.
Bending and Torsion in Orthotropic Deck Box Girder, with Abdul K. Azad, ST9:Sept 72:1987:9168
TR:138:427
See Benjamin E. Lazar, ST8:Aug 72:1725:9122

Trollope, David H.
Dsc, with M. Hugh Philip, SM2:Feb 72:235:8683, of "Evaluation of Pore Pressures Beneath and Embankment", SM6:June 71:881:8213
See Edwin T. Brown, SM2:Mar 70:685:7185

Trossello, Vincent A.
See George Rabe, EC5:70:353
See George Rabe, ST1:Jan 71:223:7850

Trott, William J.
Optimization of Multiple Reservoir System, with William Wen-Gong Yeh, HY10:Oct 73:1865:10065
TR:139:412

Troxell, Roger D.
See Harry M. Montgomery, CE:May 72:73

Trufant, Russel A.
Dsc, Thermal Pollution, CE:Sept 70:53

Truitt, Marcus M.
Simulation Model of Urban Refuse Collection, with Jon C. Liebman and Cornelius W. Kruse, SA2:Apr 69:289:6508
TR:135:136

Truong, Quan-Si
See David F. James, EM6:Dec 72:1573:9416

Truss, Felix Warner
Memoir of, TR:136:1372

Tryde, P.
Dsc, BMS:71:206, of "Full Scale Observations on Berthing Impacts: Their Interpretation", BMS:71:198
Dsc, BMS:71:264, of "Selection of Fenders", BMS:71:260

Tsai, Frank Y.
- Dsc, HY12:Dec 71:2108:8552, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994
- See C. Edward Bowers, HY6:Nov 69:2071:6915
- See C. Edward Bowers, HY1:Jan 74:236:10251

Tsai, Nien-Chien
- Modal Damping for Soil-Structure Interaction, EM2: Apr 74:323:10490
  - Dsc: Howard I Epstein, Gordon R. Johnson and Paul P. Christiano, EM6:Dec 74:1269:10972; Michael J. O'Rourke, EM:Dec 74:1270:10972; Chang Chen, EM6:Dec 74:1271:10972
- Spectrum-Compatible Motions for Design Purposes, EM2:Apr 72:345:8807
  - TR:138:184
- Dsc, PO2:Nov 73:434:10111, of "Interaction of Soil and Power Plants in Earthquakes", PO2:Oct 72: 273:9242

Tsang, Gee
- Formulas for Convective Motion of Fluids, TN: EM1:Feb 71:155:7858
- Motion of Two-Dimensional Starting Plume, with Ian R. Wood, EM6:Dec 68:1547:6321
  - Errata: EM1:Feb 70:87:7044
  - TR:135:286
- Dsc, with Ross W. Irwin, IR2:June 71:334:8156, of "Friction Factors for Corrugated Plastic Tubing", IR3:Sept 70:265:7531

Tsaturiyan, G. A.
- See G. D. Khaskhachikh, CE13:72:III-1675

Tschebotarioff, Gregory P.
- Dsc, CE:Apr 70:74, on Pressure-Meter Field Testing of Soils, CE:July 69:71
- See Hugh Q. Golder, SM3:May 70:801:7292

Tschetter, Robert A.
- Overview of the Health Care Services Industry, PP4: Oct 72:655:9283
  - TR:138:591

Tseng, Jie-Tsai
- See Liang-Tseng Fan, PO4:Dec 71:841:8595

Tseng, Wu-Hsiung
- See Franklin Y. Cheng, ST3:Mar 73:527:9595

Tso, Wai K.
- Dynamic Analysis of Plane Coupled Shear Walls, with Ho-Bong Chan, EM1:Feb 71:33:7899
  - TR:137:84
- General Analysis of Nonplanar Coupled Shear Walls, with Jayanta K. Biswas, ST3:Mar 73:365:9604
  - Dsc: Riko Rosman, ST12:Dec 73:2505:10185
  - Clo: ST7:July 74:1527:10637
  - TR:139:251
- Dsc, with Ahmed A. Ghobarah, EM1:Feb 72:277: 8680, of "Initial Buckling of Channels in Compression", EM3:June 71:711:8177
- See Ahmed A. Ghobarah, EM2:Apr 69:447:6513
- See Jayanta K. Biswas, ST11:Nov 70:2540:7644
- See Jayanta K. Biswas, ST5:May 74:1019:10537

Tsou, C. Anthony
- Search Technique for Project Sequencing, with Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732
  - Dsc: James S. Windsor, HY5:May 74:700:10505
  - Clo: HY12:Dec 74:1838:10974
  - TR:139:281

Tsuchiya, Yoshito
- Characteristics of Saltation of Sand Grains by Wind, with Yoshiaki Kawata, CE13:72:II-1617
- Horizontal and Vertical Water Particle Velocities Induced by Waves, with Masataka Yamaguchi, CE13:72:I-555
- Limiting Condition for Standing Wave Theories by Perturbation Method, with Masataka Yamaguchi, 12CEC:71:523
- Successive Saltation of a Sand Grain by Wind, 12CEC:71:1417
- Wave Observations with Capacitance-Type Wave Gauge Array Installed on a Long Pier, with Masataka Yamaguchi, WAVES:Sept 74:689
- See Shigehisa Nakamura, 12CEC:71:2089

Tsui, K. K.
- See R. J. Mitchell, CE13:72:II-1515

Tsui, Yuet
- Plane Strain Approximations in Finite Element Analyses of Temporary Walls, with Gerald W. Clough, GT74:June 74:173
- See Gerald W. Clough, GT12:Dec 74:1259:11028

Tsyploukhin, V. F.
- See Yu M. Krylov, TN: WW4:Nov 71:793:8491
- See S. S. Strekalov, CE13:72:I-307

Tucker, Richard
- Civil Engineering Education in the Future, PP1:Jan 72:97:8664
  - TR:138:191
- See Robert Davis, TN: SU1:Sept 73:149:10017

Tudor, Walter J.
- Ocean Engineering—Selected References, WW3:Aug 74:241:10767

Tuemmler, Fred W.
- A Guide for Urban Planning-Chapter IV: Commercial Land Planning, UP1:Aug 68:31:6086
  - Errata: UP1:Mar 70:100:7119

Tugcu, Nejat
- Influence of Edge Cables on Cable Network Behavior, TN: ST9:Sept 73:1970:9968

Tulin, Leonard G.
- See John D. Mozer, ST3:Mar 70:597:7157
- See George S. McClure, Jr., ST2:Feb 73:243:9564

Tullis, J. Paul
- Cavitation and Size Scale Effects for Orifices, with Rangachari Govindarajan, HY3:Mar 73:417:9605
  - TR:139:226
- Cavitation Scale Effects for Valves, HY7:July 73: 1109:9874
  - TR:139:337
- Choking and Supercavitating Valves, HY12:Dec 71: 1931:8593
  - Dsc: Norio Hayakawa and John F. Ripken, HY9: Sept 72:1728:9156
  - Clo: HY3:Mar 73:532:9580
  - TR:138:69
- Needle Valves as Pressure Regulators, with Maurice L. Albertson, HY5:Sept 69:1633:6787
  - Dsc: J. L. Haydock, HY4:Apr 70:1091:7189; Ramaswamy Sakthivadivel, S. Seetharaman and M. V. Somasundaram, HY7:July 70:1621:7384
  - Clo: SM2:Feb 71:337:7866
  - TR:136:220
- Reducing Cavitation in Valves, with Morris M. Skinner, HY6:Nov 68:1475:6255
  - Dsc: Kyatsandra Seetharamiah and Rama Prasad, HY6:Nov 69:2157:6866; Louis A. Darvas, HY6: Nov 69:2158:6866
  - Errata: HY9:Sept 71:1513:8345
  - Clo: HY6:June 70:1347:7310
  - TR:135:309
- Dsc, HY1:Jan 69:557:6323, of "Flow Characteristics of Butterfly and Spherical Valves", HY3:May 68: 675:5933
- Dsc, HY9:Sept 71:1547:8345, of "Cavitation Parameters for Outlet Valves", HY12:Dec 70:2519: 7771
- See Gordon H. Flammer, HY7:July 70:1485:7418
- See James W. Ball, HY9:Sept 73:1303:9993

Tullos, R. Clark
- Dsc, Land Use Bill Voted Down, CE:Oct 74:27

Tully, George B.
Dsc, TE2:May 72:463:8862, of "Simulation of Waterway Transport Systems", TE3:Aug 71:527: 8311

Tung, Chi C.
Fatigue Life Of Multilane Highway Bridges, TN: EM5:Oct 70:801:7573
Influence of Current on Statistical Properties of Waves, with Norden E. Huang, WW4:Nov 74:267: 10922
Life Expectancy of Highway Bridges to Vehicle Loads, EM6:Dec 69:1417:6976
TR:136:463
Peak Distribution of Random Wave-Current Force, EM5:Oct 74:873:10843
Response of Highway Bridges to Renewal Traffic Loads, EM1:Feb 69:41:6383
Errata: EM1:Feb 70:88:7044
TR:135:256
Statistical Properties of Wave-Current Force, with Norden E. Huang, WW3:Aug 73:341:9931
Dsc: Subrata K. Chakrabarti, WW2:May 74:161: 10509
TR:139:420

Tunstall, Edward B.
See Douglas L. Inman, CE13:72:II-1155

Tuohey, John T.
See Wilfred Revell, TE4:Nov 71:706:8486

Turabi, Dafalla A.
Distribution of Earth Pressure on Sheet-Pile Walls, with Arpad Balla, SM6:Nov 68:1271:6228
Clo: SM1:Jan 70:306:6989
TR:135:116
Sheet-Pile Analysis by Distribution Theory, with Arpad Balla, SM1:Jan 68:291:5769
Dsc: James B. Rauhut, SM2:Mar 69:634:6429; Peter W. Rowe, SM2:Mar 69:637:6429
Clo: SM1:Jan 70:295:6989
TR:125:703

Turbide, Peter N.
See Victor Goldsmith, CE13:72:II-1277

Turchick, Albert W.
Three Staff Men Named Assistant Secretaries, CE: Dec 72:71

Turian, Raffi M.
See Jeffrey S. Hsieh, SA4:Aug 71:505:8339

Turitzin, Alexander M.
Grain Storage Structures for Food Deficient Areas, ST10:Oct 69:2161:6835
TR:135:1048
Temporary Bulk Grain Storage Structures, ST3:Mar 69:381:6459
TR:135:950
Dsc, CO1:Mar 72:135:8748, of "Construction Of Large Concrete Ocean Structures", CO1:Mar 71:1: 7991
Dsc, WW2:May 72:282:8863, of "Offshore Floating Terminals", WW3:Aug 71:531:8295

Turkstra, Carl J.
Assessing and Reporting Uncertainties, State-of-Art Report 1, with Haresh C. Shah, TB:73:Ib-10-919
Dsc, ST5:May 70:986:7250, of "Safety Factors and Probability in Structural Design", ST7:July 69:1389: 6667
See Adel Fam, ST5:May 72:1212:8861
See Adel Fam, ST10:Oct 72:2320:9227

Turnbull, J. Macneil
Particle Size Distribution of Soils, TN: SM6:Nov 70: 2171:7646
Dsc, SM3:May 70:1078:7249, of "Standardization of Particle-Size Ranges", SM5:Sept 69:1247:6795

Turnbull, Willard J.
Compaction of Hydraulically Placed Fills, with Charles I. Mansur, SM11:Nov 73:939:10170
Dsc: Henry M. Reitz and Alfred H. Hunter, GT10:Oct 74:1165:10838
TR:139:500

Turner, A. Keith
See Graham A. Jobling, IR4:Dec 73:493:10195

Turner, Andrew A.
See Edward H. Wilson, HY7:July 72:1127:9007

Turner, D. Bruce
See Ralph C. Sklarew, UT73:May 73:127

Turner, Darrell J.
Dams and Ecology: Can They be Made Compatible?, CE:Sept 71:76
Dsc: Janusz R. Rydzewski, CE:Feb 72:65; Asit K. Biswas, CE:Feb 72:65
TR:137:577
Students Tackle Pollution Problems, CE:Sept 70:51
Dsc: Students and Pollution, Madhu S. Misra, CE:Jan 71:64
TR:136:694
The Unheavenly City, by Edward C. Banfield (Book Review), CE:Sept 70:116
Will OSHA Make The Construction Industry Safer, CE:Feb 72:58
TR:138:89
Dsc, CE:June 73:22, on Our Priceless Heritage, Our Youth, CE:Mar 73:76

Turner, Edmund K.
See T. William Lambe, LS:70:149

Turner, Francis C.
Contributions of the Federal-Aid Highway Program, CE:June 70:71
Dsc: Edward A. Merrill, CE:Nov 70:39
TR:136:486
F. C. Turner Joins Ranks Of ASCE Honorary Members, CE:Oct 73:89

Turner, Kenneth M.
Dsc, CE:Feb 70:47, on ASCE Responsibility for the Economic Welfare of its Members, CE:Apr 69:35

Turner, Nat P.
New Honorary Members: 1974, CE:Oct 74:93

Turner, P. A.
See H. R. Brashear, 12CEC:71:821

Turner, P. W.
Dsc, BMS:71:266, of "Selection of Fenders", BMS: 71:260

Turner, R. W.
See R. W.F. Harris, TB:73:III-24-711

Turner, Thomas M.
Dredging and the Environment: The Plus Side, with Virginia Fairweather, CE:Oct 74:62

Turpin, Robert D.
Dsc, SU1:Sept 73:135:9965, of "Water Features on Topographic Maps", SU1:July 72:1:9018

Turula, Peter
Buckling of Open Cylindrical Shells with Imperfections, with Kuang-Han Chu, EM6:Dec 70: 1125:7733
Errata: EM5:Oct 71:1559:8406
TR:136:1308
See Kuang-Han Chu, EM6:Dec 70:877:7723
See Kuang-Han Chu, EM6:Dec 70:1143:7736

Tuthill, Lewis H.
Economical Construction of a Concrete Gravity Dam, ECCD:72:65

Dsc, PO4:Dec 71:884:8554, of "Edward Hyatt (Orville) Underground Power Plant", PO2:Mar 71: 419:7950

Tutt, Paul R.
See Kenneth W. Heathington, TE1:Feb 71:105:7921

Tuttle, Jack K.
A Marine Environmental Survey In The Bay of Fundy, with Robert L. McCollom, CEO-II:70:805

Tuttle, Stephen L.
ASCE Involvement in Social Action, EI3:July 74: 201:10690
Federal Funds Available to Sections for Minority Programs, CE:Feb 73:66
TR:139:92
Guidance and Motivational Programs, with Bob Younger, Jack Pitts and John Moran, CEE:Feb 74: 1-996

Tvedt, Lawrence A.
Memoir of, TR:139:578

Twachtmann, Dale
Concepts for Ground-Water Regulatory District, EI1: Jan 74:69:10272

Twigge-Molecey, C. F.M.
Aerodynamic Forces on a Triangular Cylinder, with W. Douglas Baines, EM4:Aug 73:803:9904
TR:139:383

Twisdale, Lawrence A.
Absolute Minimum Weight Structures by Dynamic Programming, with Narbey Khachaturian, TN: ST11:Nov 74:2339:10116

Tyagi, Avdhesh K.
Dsc, with David K. Todd, HY8:Aug 70:1734:7439, of "Nonlinear Flow in Porous Media", HY6:Nov 69: 1847:6883

Tyagi, Karmvir S.
Dsc, SM4:Apr 73:351:9639, of "In Situ Shear Wave Velocity by Cross-Hole Method", SM5:May 72: 443:8904

Tyler, David A.
See Robert B. McEwen, SU2:Nov 72:201:9383

Tyler, John M.
See Patrick R. Pickens, TE2:May 74:461:10555

Tynes, Rex A.
Engineering Registration - Today and Tomorrow, PP4:Oct 73:457:10079
Dsc: Wayne A. Fernelius, EI3:July 74:258:10633
TR:139:462
Dsc, CE:Mar 73:89, on Specialty Registration for Engineers, CE:Dec 72:32

Tyson, Christopher G.
Dsc, CE:Sept 72:65, on Badly Needed: Changes in Building Codes for Houses, CE:Apr 72:55

Tywoniuk, Nick
Sediment Budget of the Lower Fraser River, CE13: 72:II-1105
Sediment Discharge Computation Procedures, HY3: Mar 72:521:8783
TR:138:213

Uchida, Yoshichita
See Kiyoo Matsushita, TB:73:Ia-12-1067

Uddin, Tasnim
See Charles G. Culver, ST3:Mar 73:417:9620

Udeozo, Beka
See Ramanand Prasad, HY7:July 70:1622:7384

Ueda, Kenji
See Toru Yoshii, CEO-II:70:1045

Ueda, Yasuyo
See Takeichiro Takamatsu, EE4:Aug 74:883:10705

Uekita, Yukio
See Juichi Kato, WW3:Aug 69:337:6733

Uhlmann, Wolfhart
See Kurt Kloppel, ST7:July 70:1617:7386

Ulery, Harry H., Jr.
See Richard G. Ahlvin, TE4:Nov 71:711:8486
See Richard G. Ahlvin, TE1:Feb 74:135:10349

Ullrich, C. Robert
See D. Joseph Hagerty, RM14:73:127

Umek, Andrej
See Stephen A. Thau, EM5:Oct 74:919:10870

Umurhan, Taner
Dsc, CE:Oct 72:82

Undan, Rodolfo
See Norbert L. Ackermann, HY11:Nov 70:2231:7675

Underberger, Howard L.
See John D. Bristor, CO2:Nov 71:337:8482

Underwood, Lloyd B.
Exploration and Geologic Prediction for Underground Works, EFSE:Aug 74:65

Unny, Tharakkal E.
See Nicholas Kouwen, IR2:June 69:329:6633
See Harry M. Hill, HY5:Sept 69:1545:6770
See Gordon Keir, HY4:Nov 69:1781:6875
See Pierre F. Lemieux, EM6:Dec 70:1031:7731
See Nicholas Kouwen, HY5:May 73:713:9723
See Gunaratnam Balachandran, TN: EM4:Aug 73: 912:9898
See Keith W. Hipel, HY10:Oct 74:1437:10861
See Jon F. Sykes, GT11:Nov 74:1203:10956

Urabeck, Frank J.
See Ellsworth J. Gullidge, WW3:Aug 70:583:7453

Ural, Oktay
Mutual Benefits of Housing and Mass Transit, with J. Larry Josey, PP1:Jan 73:91:9502
TR:139:152

Urelius, Dwight E.
Behavior of Prestressed Cable Truss Structures, with David W. Fowler, ST8:Aug 74:1627:10747

Ushijima, Toshimitsu
See Joseph L. Goldman, ST1:Jan 74:129:10295

Utesa, Luis Vieitez
See Jose Tinajero Saenz, 4PCSM:71:II225

Uthenwoldt, Gary
Dsc, ST9:Sept 71:2427:8348, of "Orthotropic Elastic Properties of Wood", ST11:Nov 70:2301:7682

Uzan, Jacob
Cracking Mechanism of Flexible Pavements, with Moshe Livneh and Elisha Shklarsky, TE1:Feb 72: 17:8695
Errata: TE2:May 73:424:9691
TR:138:16

Uzomaka, Osondu J.
Dsc, SM2:Mar 69:663:6429, of "Effects of Loading Method on Triaxial Test Results", SM2:Mar 68: 407:5844

Uzuner, Mehmet S.
Stability of Floating Ice Blocks, with John F. Kennedy, HY12:Dec 72:2117:9418
Dsc: George D. Ashton, HY11:Nov 73:2142: 10109
Clo: HY10:Oct 74:1473:10839
TR:139:140

Vacharajittiphan, Porpan
Elastic Lateral Buckling of Portal Frames, with Nicholas S. Trahair, ST5:May 73:821:9720
  TR:139:320
Warping and Distortion at I-Section Joints, with Nicholas S. Trahair, ST3:Mar 74:547:10390

Vafai, Abolhassan
Torsional and Bending Behavior of Wood Beams, with George Pincus, ST6:June 73:1205:9788
  TR:139:351

Vagneron, Jean-Marie J.
See Kenneth L. Lee, SM10:Oct 73:745:10068

Vaicaitis, Rimas
Parametric Study of Wind Loading on Structures, with Masanobu Shinozuka and M. Takeno, ST3: Mar 73:453:9634
  TR:139:280

Vaid, Yoginder P.
Triaxial and Plane Strain Behavior of Natural Clay, with Richard G. Campanella, GT3:Mar 74:207: 10421
Dsc, with Richard G. Campanella, SM5:May 72:508: 8860, of "Consolidation at Constant Rate of Strain", SM10:Oct 71:1393:8447

Vaidya, Gajanan M.
Dsc, ST5:May 70:1001:7250, of "Bonded Wood-Concrete T-Beams", ST10:Oct 69:2265:6842

Vaidyaraman, Pazhayannur P.
Dsc, with Ganakaloty Puttaramaiah, HY7:July 73: 1160:9823, of "Repeatability in Estuarine Hydraulic Model", HY4:Apr 72:631:8832

Vail, F. L.
See Neil T. Monney, CO1:Jan 68:89:5760

Vaish, Ashok K.
Earthquake Finite Element Analysis of Structure-Foundation Systems, with Anil K. Chopra, EM6: Dec 74:1101:10990

Vajda, Michael L.
See Mordechai H. Diskin, WW2:May 70:359:7283

Valantine, Vernon E.
Impacts of Colorado River Salinity, IR4:Dec 74:495: 10985

Valathur, M.
See Achyut V. Setlur, SDNPF:Dec 73:139

Valencia, Fernando E.
Practical Aspects of Shotcrete Application, SUSS:July 73:114

Valent, Philip J.
See Adolph G. Altschaeffl, SM5:May 71:820:8083

Valent, Serge V.
Dsc, PO1:Jan 71:237:7784, of "Arch Dam Design: State-of-the-Art", PO1:Jan 70:93:7021

Valenta, J. J.
See T. A. Austin, CEE:Feb 74:1-980

Valente, Gianfranco
See Raffaele Casaciario, EM5:Oct 71:1560:8406

Valentin, Franz
Dsc, HY7:July 73:1170:9823, of "Boundary Layer Effects on Hydraulic Jump Location", HY7:July 72: 1127:9007

Valentine, Vernon E.
See Myron B. Holburt, HY3:Mar 72:503:8769

Valera, Julio E.
Stresses in an Earth Dam due to Contruction and Reservoir Filling, with Jian C. Chen, GT74:June 74:33
See H. Bolton Seed, IMROD:Sept 73:745

Vallee, Herman
See James S. Windsor, WW2:May 69:149:6553

Vallee, Robert P.
Field Consolidation of High Ash Papermill Sludge, with Orlando B. Andersland, GT3:Mar 74:309: 10431
Dsc, with Orlando B. Andersland, SM8:Aug 73:642: 9892, of "Coefficient of Secondary Compression", SM1:Jan 73:123:9515
Dsc, GT10:Oct 74:1169:10838, of "Settlement of Building on Pile Foundation in Sand", GT3:Mar 74:265:10405

Vallerga, Bernard A.
Modern Pavement Evaluation Techniques, with Robert G. Lee, ASC73:Mar 73:63
Pavement Evaluation and Design for Jumbo Jets, with B. Frank McCullough, TE4:Nov 69:639:6895
  TR:136:252

Vallianos, Limberios
Recent History of Erosion at Carolina Beach, N. C., 12CEC:71:1223

Valliappan, Somasundaram
Nonlinear Stress Analysis of Reinforced Concrete, with T. F. Doolan, ST4:Apr 72:885:8845
  Dsc: William C. Schnobrich, Mohammad H. Salem, David A. Pecknold and Bijan Mohraz, ST10:Oct 72:2327:9227; R. S. Lamb and G. Davies, ST3:Mar 73:583:9583; A. Rajaraman, ST5:May 73:952:9693
  Clo: ST12:Dec 73:2484:10185
  TR:139:43
Torsion of Nonhomogeneous Anistropic Bars, with V. Pulmano, TN: ST1:Jan 74:286:10264

Valsangkar, Arun J.
Drainage in Soils with Initial Gradient, with Kanakatti Subramanya, IR2:June 72:309:8995
  TR:138:383
See Annapareddy Siva Reddy, SM6:Nov 70:1951: 7688

Valvis, Peri Z.
Power and Energy Study of Hydroelectric Plants, with Miltos Th. Mathioudis, PO2:Mar 71:567:8003
  TR:137:876

van Aken, H. M.
Frequency Response of a Shipborne Wave Recorder, with E. Bouws, WAVES:Sept 74:281

van Beek, Johannes L.
See Sherwood M. Gagliano, 12CEC:71:1767

Van Besien, Alphonse C.
Subsurface Explorations in the Coal Mining Industry, EFSE:Aug 74:383

Van Beveren, James L.
See Perry A. Maljian, CO3:Sept 74:337:10791

Van Buren, Maurice P.
Staggered Columns in Flat Plates, ST6:June 71:1791: 8222
  Dsc: Frederick P. Wiesinger, ST1:Jan 72:386:8623
  Clo: ST6:June 72:1330:8930
  TR:137:663

Vance, James A.
New Honorary Members: 1974, CE:Oct 74:93

Vanchagov, O. M.
See G. D. Khaskhachikh, WW4:Nov 71:735:8547

Van Dalen, Karl
See Sanivarapu V. Narasimham, ST7:July 73:1653:9826
See Sanivarapu V. Narasimham, ST8:Aug 74:1737:10697

van de Kreeke, Jacobus
Damage Function of Rubble-Mound Breakwaters, WW3:Aug 69:345:6743
Dsc: Per Moller Bruun, WW2:May 70:559:7252; Juan B. Font, WW2:May 70:568:7252; Adel M. Kamel, WW2:May 70:570:7252; Anton Brandtzaeg, WW2:May 70:576:7252; Lewis G. Hulman, WW2:May 70:577:7252
TR:137:682
A Numerical Model for the Hydrodynamics of Lagoons, CE13:72:III-2241
Sediment Pollution in Coastal Waters, 12CEC:71:1803
Dsc, WW2:May 69:243:6528, of "Tide Gage Frequency Response", WW3:Aug 68:317:6072

Vandenberg, John Lloyd
Memoir of, TR:136:1373

Vanden Berg, S. A.
Iterative Analysis: Bounded Leaky Artesian Aquifer, IR1:Mar 69:1:6431
TR:135:940

van den Heuvel, J.
See Thomas L. Shaw, CE:Dec 72:40

Vandenvelde, Charles E.
See Hans Gesund, TB:73:III-22-455

Van der Beken, Andre
Dsc, IR1:Mar 70:97:7114, of "Effect of Openings on Design of Subsurface Drains", IR1:Mar 69:199:6480
Dsc, HY12:Dec 70:2661:7711, of "Dynamic Equations for Steady Spatially Varied Flow", HY3:Mar 70:801:7179
Dsc, IR2:June 71:330:8156, of "Friction Factors for Corrugated Plastic Tubing", IR3:Sept 70:265:7531
See Jean Berlamont, HY9:Sept 73:1531:10004

Vanderbilt, M. Daniel
Service and Overload Behavior of Wood Joist Floor Systems, with James R. Goodman and Marvin E. Criswell, ST1:Jan 74:11:10274
Shear Strength of Continuous Plates, ST5:May 72:961:8876
Dsc: Sateesh J. Nabar and Hans Gesund, ST5:May 73:953:9693; Saigid Tauquir Haider Zaidi, ST12:Dec 73:2485:10185
Clo: ST1:Jan 74:267:10253
TR:139:54
Structural Reaction Dynamometers, ST6:June 71:1701:8188
TR:137:648
Tests of a Modified Reinforced Concrete Two-Way Slab, with Mete A. Sozen and Chester P. Siess, ST6:June 69:1097:6587
TR:135:94

van der Gugten, Cornelis A.
Dsc, HY8:Aug 70:1778:7439, of "Designing Spillway Crests for High-Head Operation", HY3:Mar 70:745:7153

van der Kuur, P.
See A. J. van Rees, CE13:72:III-2345

van der Molen, Jan L.
Dsc, ST2:Feb 71:727:7867, of "Optimal Multifactor Design Procedure for Sandwich Panels", ST4:Apr 70:823:7243

Vanderplaats, Garret N.
Automated Design of Trusses for Optimum Geometry, with Fred Moses, ST3:Mar 72:671:8795
Dsc: James W. Chai, ST9:Sept 72:2133:9159
Clo: ST3:Mar 73:581:9583
TR:138:202

Vandersypen, Hugo L.
See Edward K. Morlok, TE3:Aug 73:627:9922

van der Veen, Cornelius
See Endre Horvat, TB:73:Ia-11-905

van der Weide, J.
See K. d'Angremond, 12CEC:71:1601

Van Donsel, Dale J.
See Edwin E. Geldreich, NSCD:71:495

van Douwen, A. A.
Fatigue and Fracture, Theme Report, TB:73:II-18-721

Van Duuren, Francois A.
Defined Velocity Gradient Model Flocculator, SA4:Aug 68:671:6076
Dsc: Igor Tesarik, SA4:Aug 69:793:6706
TR:135:688
Dsc, SA5:Jan 70:1286:7569, of "Engineering Evaluation of Virus Hazard in Water, by the Committee on Environmental Quality Management of the Sanitary Engineering Division", SA1:Feb 70:111:7112

Van Dyke, Henry C.
See Jason C. Yu, TE3:Aug 73:467:9932

Van Hagan, Leslie F.
Memoir of, TR:135:1149

VanHorn, David A.
Undergraduate Civil Engineering Programs, CEE:Feb 74:2-25
See John M. Hanson, ST11:Nov 70:2443:7705
See Miguel Angel Macias-Rendon, ST9:Sept 73:1805:9998

Van Koten, H.
Research Review -- Europe and Africa, State-of-Art Report 2, TB:73:Ib-7-375

van Loenen, G.
See W. P.A. Broeders, WAVES:Sept 74:543

Vanmarcke, Erik H.
Properties of Spectral Moments with Applications to Random, EM2:Apr 72:425:8822
TR:138:211
See Ross B. Corotis, EM2:Apr 72:401:8816
See John W. Reed, TB:73:II-17-687
See Robert J. Hansen, ST7:July 73:1589:9868
See Rebecca Grant, GT9:Sept 74:973:10802

Van Meer, Gretchen L.
Dsc, CE:Mar 74:26, on Are More Women Needed in Civil Engineering, CE:May 73:54

Vann, William P.
Dsc, ST1:Jan 70:137:6990, of "Cyclic Yield Reversal in Steel Building Joints", ST3:Mar 69:327:6441
See Anestis S. Veletsos, ST4:Apr 71:1257:8075

Van Ness, William H.G.
Artic Research Laboratory, CE:May 71:69
Dsc: Glued Laminated Beams, Russell P. Wibbens, CE:Sept 71:93
TR:137:359

Vanoni, Vito A.
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, HY12:Dec 70:2417:7781
  Dsc: Banavar Murthy, HY6:June 71:877:8155; J. Roger McHenry, HY8:Aug 71:1253:8267; Herman G. Heinemann and David L. Rausch, HY9:Sept 71:1555:8345
  Clo: HY1:Jan 73:261:9459
  TR:137:852
Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, HY9:Sept 72:1647:9177
  Dsc: Mushtaq Ahmad, HY7:July 73:1176:9823; H. Suresh Rao, HY7:July 73:1178:9823; Iqbal Ali, HY7:July 73:1180:9823; Victor Sardi and Celetino Martinez de la Plaza, HY7:July 73:1182:9823
  Clo: HY6:June 74:821:10567
  TR:139:84
Factors Determining Bed Forms of Alluvial Streams, HY3:Mar 74:363:10396
  Dsc: Thomas Maddock, Jr., HY12:Dec 74:1855:10974
Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: A. Fluvial Sediment, Task Committee on Preparation of the Sedimentation Manual, HY5:Sept 69:1477:6756
  Dsc: Roger LeB. Hooke, HY4:Apr 70:1073:7189; George Fleming, HY4:Apr 70:1075:7189; Harold P. Guy, HY5:May 70:1212:7248
  Clo: HY5:May 71:725:8081
  TR:136:823
Sedimentation Engineering, Chapter III: Sediment Measurement Techniques: F. Laboratory Procedures, Task Committee on Preparation of the Sedimentation Manual, HY5:Sept 69:1515:6757
  Dsc: George Fleming, HY4:Apr 70:1076:7189; Udayagiri Mohan Rao, HY5:May 70:1215:7248
  Clo: HY11:Nov 70:2377:7641
  TR:136:798
Sedimentation Engineering, Chapter IV: Sediment Sources and Sediment Yields, Task Committee on Preparation of Manual on Sedimentation, HY6:June 70:1283:7337
  Dsc: Jacques Bruschin, HY2:Feb 71:372:7863; George Fleming, HY2:Feb 71:376:7863; Stafford C. Happ, HY4:Apr 71:597:8012
  Clo: HY5:May 72:938:8859
  TR:137:457
Sedimentation Engineering, Chapter II: Sediment Transportation Mechanics: Q. Genetic Classification of Valley Sediment Deposits, Task Committee for Preparation of Sedimentation Manual, HY1:Jan 71:43:7815
Sedimentation Engineering, Chapter VI: Economic Aspects of Sedimentation, HY1:Jan 69:191:6334
  Dsc: Paul F. Keim, HY6:Nov 69:2165:6866
  Errata: HY6:June 70:1349:7310
  TR:135:205
Sedimentation Engineering, Chapter 3: Sediment Measurement Techniques: C. Accelerated Valley Deposits by, the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, HY5:May 70:1157:7269
  Dsc: Graham W. Renfro, HY3:Mar 71:460:7940; Stafford C. Happ, HY4:Apr 71:588:8012; Albert L. Hill, HY4:Apr 71:592:8012; V. E. McKelvey, HY4:Apr 71:593:8012; William F. Rannie and Harold J. McPherson, HY4:Apr 71:594:8012; Gordon Rittenhouse, HY4:Apr 71:596:8012; Stafford C. Happ, HY6:June 71:871:8155
  Clo: HY5:May 72:937:8859
  TR:137:450
Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, HY12:Dec 71:1979:8591
  Dsc: Mohammad Akram Gill, HY10:Oct 72:1880:9222
  Clo: HY4:Apr 73:682:9637
  TR:138:64
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, HY7:July 72:1295:9071
  TR:138:391
Sediment Control Methods: D. Reservoirs, HY4:Apr 73:617:9671
  Clo: HY5:May 74:696:10505
  TR:139:262
Sediment Measurement Techniques: E. Airborne Sediment, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, HY1:Jan 70:29:7001
  Dsc: Hsieh W. Shen, HY6:June 70:1371:7310
  Clo: HY1:Jan 71:173:7783
  TR:136:380
Sediment Transportation Mechanics: J. Transportation of Sediment in Pipes, HY7:July 70:1503:7423
  Dsc: Marion R. Carstens, HY1:Jan 71:209:7783; Millard P. Robinson, Jr. and Oner Yucel, HY3:Mar 71:468:7940; Ben Chie Yen, HY4:Apr 71:622:8012; Robert R. Faddick and Henry A. Babcock, HY5:May 71:745:8081
  Clo: HY4:Apr 74:595:10441
  TR:137:110
Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division, HY4:Apr 71:523:8076
  Dsc: George Fleming, HY9:Sept 71:1573:8345; Thomas Blench, HY1:Jan 72:284:8620; K. R. Swaminathan and C. Dakshinamurti, HY1:Jan 72:289:8620; Holenarasipur Y. Rajagopal, HY1:Jan 72:289:8620; Shrikrishna V. Chitale and K. S. Rajagopalan, HY2:Feb 72:388:8681; Zal S. Tarapore and J. G. Dixit, HY2:Feb 72:391:8681; Hans Vollmers, HY2:Feb 72:393:8681
  Clo: HY10:Oct 72:1869:9222
  TR:137:975
Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, HY1:Jan 71:101:7786
  Dsc: David Squarer, HY10:Oct 71:1775:8407; M. Gamal Mostafa and Ramsay M. McDermid, HY10:Oct 71:1777:8407; Thomas Maddock, Jr., HY11:Nov 71:1904:8483; Thomas Blench, HY11:Nov 71:1908:8483; John J. Franco, HY11:Nov 71:1913:8483; Anthony Rylands Thomas, HY11:Nov 71:1915:8483; Arved J. Raudkivi, HY12:Dec 71:2089:8552
  Clo: HY6:June 73:977:9760
  TR:139:1
Sediment Transportation Mechanics: Nature of Sedimentation Problems, by Task Committee on Preparation of Sedimentation Manual, HY2:Mar 65:4260
  Dsc: Joe M. Lara, HY5:Sept 65:319:4464
  Clo: HY6:June 74:821:10567
See Brent D. Taylor, WW2:May 69:247:6528
See Brent D. Taylor, HY8:Aug 72:1427:9105
See Brent D. Taylor, HY12:Dec 72:2191:9456

van Oorschot, J. H.
Sea-Bed Configuration in Relation to Breakwater Stability, with A. Wevers, CE13:72:II-1543

van Rees, A. J.
Experiences with Tidal Salinity Model Europoort, with P. van der Kuur and H. J. Stroband, CE13:72:III-2345

Van Riper, Donald
Esthetics in Highway Design, CE:Apr 72:47
  Dsc: Miguel P. Dengo, CE:Aug 72:46
  TR:138:177

Vansant, Robert E.
Dsc, IR1:Mar 73:115:9581, of "General Statement of Principles to be Included in State Water Rights Laws", IR2:June 72:317:8996

van Schaik, C.
See Johan A. Zwamborn, 12CEC:71:13

van Schilfgaarde, Jan
Irrigation Management for Salt Control, with Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR73:Aug 73:647
Irrigation Management for Salt Control, with Leon Bernstein, James D. Rhoades and Stephen L. Rawlins, IR3:Sept 74:321:10822
Water Management Through Irrigation and Drainage: Progress, Problems, and Opportunities, by the Committee on Research of the Irrigation and Drainage Division, IR2:June 74:153:10619
See Petrus A.C. Raats, IR4:Dec 74:519:10975

Van Sickle, Donald
Interior Drainage Design for Hurricane Protection Projects, HY2:Mar 68:455:5858
TR:135:895

Van Tienhoven, Jan C.
Translations of Foreign Literature on Hydraulics, HY10:Oct 70:2079:7630
TR:137:184

Van Weele, Brian J.
Wave Reflection and Transmission for Pile Arrays, with John B. Herbich, CE13:72:III-1935

Van Zandt, Franklin K.
Dsc, SU2:Sept 68:278:6091, of "Ten-Year Research Program in Surveying and Mapping", SU2:Oct 67:9:5486

Varde, O. A.
Settlements of Steel Tanks Founded on Clays (In Spanish), with E. Nunez, Arnoldo J.L. Bolognesi and Oreste Moretto, 4PCSM:71:II179

Varello, Paul J.
Difficult Excavation at Carley Porter Tunnel, CE: June 70:66
TR:136:478

Varga, Istvan S.
See Matthys P. Levy, ST5:May 72:975:8894

Vargas, Milton
Effectiveness of Cut-offs under Three Earth Dams, 4PCSM:71:II257
Dsc, 4PCSM:72:III135, of "Slope Stability in Residual Soils", 4PCSM:71:I87

Varghese, P. C.
Lateral Stability of Plane Open-Web Structures, ST11:Nov 74:2223:10924
Dsc, with C. Ganapathy Chettiar, ST7:July 73:1663:9826, of "Bibliography on Latticed Structures", ST7:July 72:1545:9055

Varshney, D. V.
See Heramb D. Sharma, HY2:Feb 73:375:9523
See Heramb D. Sharma, HY4:Apr 73:684:9637

Vasarhelyi, Desi D .
Tests of Gusset Plate Models, ST2:Feb 71:665:7901
Errata: ST12:Dec 71:2894:8557
TR:137:367
See George C. Brookhart, ST3:Mar 68:671:5851

Vasco Costa, Douglas
Planning Monitoring Frequencies for CPM Projects, CO2:Nov 71:211:8503
Dsc: Robert I. Carr, CO2:Sept 72:360:9155
Clo: CO1:July 73:207:9822
TR:139:62

Vasco Costa, Fernando
Directional Analysis in Model Design, EM2:Apr 71:519:8053
Dsc: William Squire, EM5:Oct 71:1589:8406; Johannes Gessler, EM6:Dec 71:1746:8551; Enzo O. Macagno, EM6:Dec 71:1748:8551
Clo: EM4:Aug 72:995:9125
TR:137:587
The Mechanics of Impact and Evaluation of the Hydrodynamic Mass Analytic Study of the Problem of Berthing, BMS:71:157
Dsc: J. D. Rendle, BMS:71:206
Physical Model of the Moored Ship as an Oscillating System, BMS:71:53
Dsc: S. Kastner, BMS:71:139
Clo: Fernando Vasco Costa, BMS:71:147
Selection of Fenders, BMS:71:260
Dsc: P. Tryde, BMS:71:264; Pierre Giraudet, BMS:71:265; P. W. Turner, BMS:71:266; S. P. Whittington, BMS:71:266
Ways to Improve Berthing Operations, BMS:71:273
Dsc, BMS:71:139, of "Use of Models for the Study of the Behavior of Moored Ships", BMS:71:136
Dsc, BMS:71:143, of "Use of Models for the Study of the Behavior of Moored Ships", BMS:71:136
Dsc, BMS:71:223, of "Model Investigation of Berthing Impacts", BMS:71:215

Vashi, Kiran M.
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, with Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Dsc, ST5:May 70:995:7250, of "Horizontally Curved Bridges Subject to Moving Load", ST8:Aug 69:1615:6713

Vasilescu, Mircea S.
Design of Rock Caverns for Hydraulic Projects, with C. P. Benziger and Robert W. Kwiatkowski, URC:72:21
Dsc, PO2:Nov 68:238:6201, of "Some Design Aspects of a Divided Gate Tower", PO2:Oct 67:1:5482
Dsc, SM3:May 69:899:6525, of "A Model for the Mechanics of JointedRock", SM3:May 68:637:5937
Dsc, SM3:May 69:919:6525, of "Performance of Muddy Run Embankment", SM4:July 68:859:6026
Dsc, PO1:Jan 71:256:7784, of "New Design Criteria for USBR Penstocks", PO1:Jan 70:129:7034

Vasiliev, A. P.
Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, with Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489

Vasiliev, O. F.
Development of the Turbulized Fluid Region in Stratified Medium, with B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72:161

Vaughan, Richard D.
The Federal Solid Wastes Disposal Program, CE:Feb 69:69
TR:135:82
Public Health Service Solid Wastes Program, with Ralph J. Black, SA2:Apr 69:233:6500
TR:135:156

Vaziri, Cyrus M.
Furrow Irrigation Criteria for Hawaiian Sugarcane, with Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622
TR:139:271

v.d. Vliet, G. J.
See L. H. Holthuijsen, WAVES:Sept 74:153

Veeraraghavachary, K.
Dsc, ST2:Feb 72:534:8684, of "Stress Distribution in Castellated Beams", ST7:July 71:1947:8260

Veerling, John P.
Newark Airport Redevelopment Program, AT1:Nov 68:19:6244
TR:135:495
People Considerations at Newark Airport, MTI:May 72:243

Velebit, Milan
See Ted B. Belytschko, EM1:Feb 72:227:8724

Veletsos, Anestis S.
Analysis of Dynamic Response of Highway Bridgeu, with Tseng Huang, EM5:Oct 70:593:7591
TR:136:1140
Basie Response Fuctions for Elastic Foundations, with Branislav Verbic, EM2:Apr 74:189:10483
Free In-Plane Vibration of Circular Arches, with Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806
TR:138:176
Lateral and Rocking Vibration of Footings, with Yau T. Wei, SM9:Sept 71:1227:8388
TR:137:1016
Response of Ground-Excited Elastoplastic Systems, with William P. Vann, ST4:Apr 71:1257:8075
TR:137:430
Response of Torsionally Excited Foundations, with V. V. Damodaran Nair, TN: GT4:Apr 74:476:10454
Torsional Vibration of Viscoelastic Foundations, with V. V. Damodaran Nair, GT3:Mar 74:225:10415
See Jethro W. Meek, EM2:Apr 72:367:8824
See Walter J. Austin, EM4:Aug 73:735:9913

Vellozzi, Joseph
Gust Response Factors, with Edward Cohen, ST6:June 68:1295:5980
Dsc: Barry J. Vickery, ST3:Mar 69:494:6430
TR:135:798
Dsc, ST11:Nov 73:2332:10113, of "Gust Factors and Alongwind Pressure Correlations", ST4:Apr 73:773:9686

Venancio-Filho, Fernando
Frame Vibrations by Consistent Mass Matrix, with Fernando Iguti, TN: ST9:Sept 73:1965:9968
Dsc, with Fernando Iguti, ST7:July 73:1660:9826, of "Stiffness Analysis of Grids Including Warping", ST7:July 72:1511:9022

Vendhan, C. P.
See Mahadevan Hariharan, PO1:July 74:130:10636

Veneziano, Daniele
See Carlo Gavarini, ST1:Jan 73:219:9462

Venkataramaiah, Kothapalli Ramaiah
Dsc, EM1:Feb 70:92:7044, of " Over-All and Local Buckling of Channel Columns", EM2:Apr 69:447:6513
Dsc, with John Roorda, ST7:July 70:1610:7386, of "Effective Width of Thin Plates in Compression", ST10:Oct 69:2183:6837
Dsc, with John Roorda, ST4:Apr 71:1376:8015, of "Rational Design of Light Gage Beams", ST7:July 70:1535:7421
Dsc, with John Roorda, EM2:Apr 72:476:8798, of "Initial Buckling of Channels in Compression", EM3:June 71:711:8177
Dsc, ST6:June 72:1332:8930, of "Alternative Approach to Light-Gage Beam Design", ST8:Aug 71:2119:8327

Venkataramana, S.
See T. R. Chandrasekhara, IR:Sept 68:362:6088
See T. R. Chandrasekhara, HY3:May 69:1063:6524
See T. R. Chandrasekhara, HY4:Apr 70:1068:7189
See T. R. Chandrasekhara, HY5:May 71:736:8081

Venkatesan, Mahadeva S.
See Frank Baron, EM3:June 69:763:6634
See Frank Baron, ST2:Feb 71:679:7937
See Frank Baron, ST4:Apr 71:1305:8080

Venkatesha, C. R.
See K. V. Swaminathan, ST6:June 71:1818:8159
See K. V. Swaminathan, ST7:July 71:2023:8225

Venkateshwar Rao, D.
See Kolinjuvadi S. Sankaran, SM12:Dec 71:1714:8556

Venkateswara Rao, G.
Buckling of Shells by Finite Element Method, with I. S. Raju and S. K. Radhamohan, TN: EM5:Oct 74:1092:10856

Venkateswara Rao, S.
Dsc, with P. Dayaratnam, ST9:Sept 71:2431:8348, of "Optimization of Redundant Prestressed Structuree", ST12:Dec 70:2589:7755

Venkateswarlu, Bandaru
Cracking and Bond Slip in Concrete Beams, with Hans Gesund, ST12:Dec 72:2663:9423
Dsc: Syed I. Husain and Phil M. Ferguson, ST12:Dec 73:2495:10185
Clo: ST6:June 74:1313:10569
TR:139:169

Venkayya, Vipperla B.
Dsc, with V. S. Reddy, ST7:July 69:1583:6644, of "Lateral Vibrations of Plane Curved Bars", ST10:Oct 68:2197:6148
Dsc, ST1:Jan 70:148:6990, of "Efficient Solution of Load-Deflection Equations", ST4:Apr 69:661:6510
Dsc, with N. S. Khot, EM2:Apr 70:173:7188, of "Stiffness Matrix for Plates by Galerkin's Method", EM3:June 69:571:6608

Vennard, John K.
Memoir of, TR:135:1150

Vera-Cruz, Daniel
Artificial Nourishment of Copacabana Beach, CE13:72:II-1451

Verbeck, George
Developments in Cement Technology, ECCD:72:33
Special Cements, RCCD:70:51

Verbic, Branislav
See Anestis S. Veletsos, EM2:Apr 74:189:10483

Vercelli, H. J.
See C. M. Arce, 4PCSM:71:II95

Vergara, Antonio J.
Probabilistic Approach to Estimating and Cost Control, with LeRoy T. Boyer, CO4:Dec 74:543:11021

Verghese Chummar, A.
Bearing Capacity Theory From Experimental Results, SM12:Dec 72:1311:9411
Dsc: Joseph E. Bowles, SM6:June 73:478:9762; Aleksandar Sedmak Vesic, SM7:July 73:575:9825
TR:139:183

Verhoff, Francis H.
See Thomas H. Cahill, EE2:Apr 74:439:10445
See Richard P. Cardile, EE3:June 74:679:10612

Verma, Akhileshwar P.
Numerical Modeling Of Hydromechanics Of Bay Systems, with Robert G. Dean, CEO-II:70:1069

Verma, Rameshwar D.
Similitude Criteria for Flow from Unconfined Aquifers, with Wilfried Brutsaert, HY9:Sept 71:1493:8397
TR:137:1034
Unconfined Aquifer Seepage by Capillary Flow Theory, with Wilfried Brutsaert, HY6:June 70:1331:7363
TR:136:738

Unsteady Free Surface Ground Water Seepage, with Wilfried Brutsaert, HY8:Aug 71:1213:8337
  Dsc: George M. Hornberger and Irwin Remson, HY3:Mar 72:579:8749
  Clo: HY10:Oct 72:1875:9222
  TR:137:942
Dsc, IR1:Mar 72:167:8750, of "Artificial Recharge in Water Resources Management", IR2:June 71:219:8185

Vervuurt, Hugo
Dsc, CE:Dec 70:54, on Ecological Values and Regional Planning, CE:Aug 70:40

Verwey, Adrianus
See Michael B. Abbott, HY12:Dec 70:2549:7763

Vesic, Aleksandar Sedmak
Analysis of Ultimate Loads of Shallow Foundations, SM1:Jan 73:45:9480
  Dsc: James Graham, SM10:Oct 73:897:10038; C. Vogel and A. Baracos, SM11:Nov 73:1016:10112; Icarahy da Silveira, SM11:Nov 73:1019:10112
  Clo: GT8:Aug 74:949:10695
  TR:139:202
Breakout Resistance of Objects Embedded In Ocean Bottom, CEO-II:70:137
Breakout Resistance of Objects Embedded in Ocean Bottom, SM9:Sept 71:1183:8372
  Dsc: Wallace Estill Wilson, SM2:Feb 72:240:8683
  TR:138:19
Expansion of Cavities in Infinite Soil Mass, SM3:Mar 72:265:8790
  Dsc: Kent A. Healy and Clarence W. Welti, SM11:Nov 72:1275:9306
  Clo: SM5:May 73:409:9692
  TR:138:217
Tests on Instrumented Piles, Ogeechee River Site, SM2:Mar 70:561:7170
  Dsc: John H. Schmertmann, SM4:July 70:1483:7385; Arnoldo J. L. Bolognesi, SM6:Nov 70:2155:7643; Francois A. Tavenas, SM6:Nov 70:2157:7643; Vasant N. Vijayvergiya, SM1:Jan 71:252:7785
  TR:136:825
Dsc, SM7:July 73:575:9825, of "Bearing Capacity Theory From Experimental Results", SM12:Dec 72:1311:9411

Vesilind, P. Aarne
Estimation of Sludge Centrifuge Performance, SA.3:June 70:805:7378
  Dsc: Richard I. Dick, SA2:Apr 71:238:8013
  Clo: SA6:Dec 71:934:8555
  TR:137:95
Scale-Up of Solid Bowl Centrifuge Performance, EE2:Apr 74:479:10474
Dsc, SA4:Aug 71:544:8269, of "Shearing Effects On Settling of Activated Sludge", SA1:Feb 71:59:7926
Dsc, EE5:Oct 73:754:10035, of "Economic Aspects of Sludge Dewatering and Disposal", EE1:Feb 73:55:9537

Vetter, Betty M.
The Military Draft: Educational and Occupational Deferments for Engineers, CE:May 69:67
  Dsc: Michael Alexander, Arthur J. Greengard, Jr. and Bruce Blanchard, CE:Aug 69:51; Richard H. Gates, CE:Oct 69:52; Henry C. Hyde, CE:Feb 70:65; R. B. Jarvis, CE:May 70:40
  TR:135:520

Vetter, Jack W.
Buckling of Arbitrary Open Cylindrical Shells, with Donald E. Boyd, EM1:Feb 72:177:8726
  Dsc: Kuang-Han Chu, EM5:Oct 72:1313:9221
  Clo: EM3:June 73:598:9759
  TR:139:37

Vey, Eben
A Consulting Firm in Civil Engineering Education: A History of Four Years of Participation, with David A. Novick, CEE:Feb 74:1-927
New ASCE Officers Installed in Kansas City: 1974, CE:Oct 74:92
Dsc, EI1:Jan 74:82:10252, of "The Civil Engineer of the Future - A Renaissance Man", PP1:Jan 73:9:9489
See Carl J. Costantino, SM5:Sept 69:1159:6769
See Richard A. Wetzel, SM5:Oct 70:1763:7539
See David A. Novick, CE:Jan 72:45

Vicens, Guillermo
See John C. Schaake, Jr., IR3:Sept 73:409:9962

Vickery, Barry J.
Drag or Along-Wind Response of Slender Structures, with Kwan H. Kao, ST1:Jan 72:21:8635
  TR:138:86
Lift or Across-Wind Response to Tapered Stacks, with Arthur W. Clark, ST1:Jan 72:1:8634
  TR:138:85
Load Fluctuations in Turbulent Flow, EM1:Feb 68:31:5782
  Dsc: Victor W Goldschmidt, EM6:Dec 68:1574:6260
  Clo: EM3:June 69:793:6580
  TR:135:395
Wind Action on Simple Yielding Structures, EM2:Apr 70:107:7204
  TR:136:1218
Dsc, ST3:Mar 69:494:6430, of "Gust Response Factors", ST6:June 68:1295:5980

Victorov, Peter
Effect of Period of Record on Flood Prediction, HY11:Nov 71:1853:8525
  Dsc: Gordon R. Williams, HY5:May 72:961:8859
  TR:137:888

Vidal, Henri
Reinforced Earth Steel Retaining Walls Used on High Steep Side Slopes in France, CE:Feb 70:72
  TR:136:198

Videla, E. P.
Dsc, with J. R. Nadeo, 4PCSM:72:III85, of "The Standard Penetration Test", 4PCSM:71:I1

Vierling, Bernard J.
The Morgantown Personal Rapid Transit Project, BP73:Dec 73:483

Vieser, Ellis
Critical Need for Civil Engineering Technicians, CE:Aug 69:61
  Dsc: Gerard H. Schlimm, CE:Jan 70:79
  TR:135:625

Viest, Ivan M.
Composite Steel-Concrete Construction, by the Subcommittee on the State-of-the-Art Survey, of the Task Committee on Composite Construction, of the Committee on Metals, Structural Division, ST5:May 74:1085:10561
  Dsc: Marvin A. Larson, ST12:Dec 74:2532:10977
Inspection of Steel Bridges For Fatigue Damage, by the Subcommittee on Inspection of Steel Bridges for Fatigue of the Task Committee on Structural Fatigue of the Structural Division, ST8:Aug 71:2107:8321
Theme Report: Committee on Tall Building Research, with Wai F. Chen, TB:73:C-AC11-53
See William C. Hansell, TB:73:II-19-899
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Vigander, Svein
Internal Hydraulics of Thermal Discharge Diffusers, with Rex A. Elder and Norman H. Brooks, HY2:Feb 70:509:7085
  Dsc: Thomas R. Camp and S. David Graber, HY12:Dec 70:2631:7711; Kanakatti Subramanya and Subhash Chandra Awasthy, HY12:Dec 70:2635:7711
  Clo: HY9:Sept 71:1518:8345
  TR:136:1025

Vigani, Frank C.
See Francis Clay McMichael, SA2:Apr 72:444:8800

Viggiani, Carlo
Dsc, SM6:Nov 69:1574:6894, of "Controlled Gradient Consolidation Test", SM1:Jan 69:77:6327
Dsc, SM1:Jan 70:331:6989, of "An Analysis of Consolidation Theories", SM1:Jan 69:285:6370

Viggosson, Gisli
See Per Moller Bruun, 12CEC:71:935

Vigier, Gaston
Dsc, SM2:Mar 69:690:6429, of "Graphical Stability Analysis of Slopes in Jointed Rock", SM2:Mar 68:497:5865
See Pierre Londe, SM1:Jan 69:235:6363
See Pierre Londe, SM4:July 70:1411:7435

Vigrass, J. William
Setting the Stage for a Tour of the Lindenwold Hispeed Line, NA:Mar 71:193

Vijakkhana, Chitti
Inelastic Stability of Unbraced Building Frames, with Fumio Nishino and Seng-Lip Lee, ST3:Mar 74:645:10433

Vijay, Singh
See Santosh K. Mahajan, SU1:July 72:73:9056

Vijayakumar, Kaja
Buckling of Polar Orthotropic Annular Plates, with C. V. Joga Rao, EM3:June 71:701:8171
TR:137:982
See Somayajulu Durvasula, EM1:Feb 72:262:8680

Vijayvergiya, Vasant N.
Dsc, with Lymon C. Reese, SM2:Mar 69:665:6429, of "End Bearing and Skin Friction Resistance of Piles", SM2:Mar 68:421:5846
Dsc, SM1:Jan 71:252:7785, of "Tests on Instrumented Piles, Ogeechee River Site", SM2:Mar 70:561:7170
Dsc, SM12:Dec 72:1418:9394, of "Behavior of Bored Piles in Beaumont Clay", SM2:Feb 72:195:8741

Villarreal, Carlos C.
Future Transportation Planning for People by UMTA, MTI:May 72:17

Villemonte, James R.
Some Basic Concepts on Flow in Branching Conduits (Abstract), HYB:Aug 73:203
See Donald K. Jamison, HY7:July 71:1045:8258
See Kaye Finch, CEE:Feb 74:1-1015

Vincent, Harvey
Dsc, Training Technicians, CE:July 70:38
Dsc: Wayne A. White, CE:Nov 70:39

Vincent G. Kling and Partners
Brandywine Building, TB:73:C-P-386
Central Penn National Bank, TB:73:C-P-362
Centre Square, TB:73:C-P-390
Fidelity Mutual Life, TB:73:C-P-368
Municipal Services Building, TB:73:C-P-456
Penn Center, TB:73:C-P-380
Stock Exchange Building, TB:73:C-P-372
Transportation Center, TB:73:C-P-452

Viner, John G.
Recent Developments in Roadside Crash Cushions, TE1:Feb 72:71:8747
TR:138:99
Dsc, CE:Sept 70:77, on The Highway Explosion, CE:Dec 69:71
See Flory J. Tamanini, CE:Jan 70:63

Vinnakota, Sriramulu
Elastic-Plastic Instability of Multi-Story Frames, TB:73:II-16-568
Inelastic Spatial Stability of Restrained Beam-Columns, with Pentti Aysto, ST11:Nov 74:2235:10919
Dsc, with Pentti Aysto and John C. Badoux, ST6:June 72:1334:8930, of "Biaxially Loaded Beam-Column Analysis", ST9:Sept 71:2245:8384

Vinson, Ted S.
Polyurethane Foamed Plastics in Soil Grouting, with James K. Mitchell, SM6:June 72:579:8947
TR:138:321

Viparell, Michele
Dsc, with Marco Pica, HY2:Dec 70:622:7711, of "Characteristics of Self-Aerated Flows", HY2:Feb 70:331:7055

Viraraghavan, Thiruvenkatachari
Dsc, SA5:Oct 72:798:9225, of "Hydraulically Ventilated Underground Filter", SA6:Dec 71:851:8596
Dsc, SA5:Oct 72:801:9225, of "Bacterial Dieoff in Ponds", SA1:Feb 72:59:8714
Dsc, SA6:Dec 72:1058:9393, of "Oxygen Depletion in Ice Covered River", SA2:Apr 72:341:8841
Dsc, EE1:Feb 73:94:9521, of "Clean Water -- An Environmental Challenge", SA2:Apr 72:375:8812
Dsc, EE2:Apr 73:158:9635, of "Research Needs for Advanced Waste Treatment", SA3:June 72:515:8956
Dsc, EE4:Aug 73:562:9893, of "Professional Papers in Sanitary Engineering", SA5:Oct 72:707:9237
Dsc, EE5:Oct 73:753:10035, of "Stochastic Population Projection at Design Level", SA6:Dec 72:883:9436
Dsc, EE3:June 74:777:10564, of "Federal Drinking Water Standards - Past, Present, and Future", EE4:Aug 73:469:9924
Dsc, EE3:June 74:778:10564, of "Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case", EE4:Aug 73:461:9936
Dsc, EE3:June 74:779:10564, of "Competitive Growth of Sewage Organisms", EE4:Aug 73:489:9944
Dsc, EE4:Aug 74:1045:10693, of "Design of High-Rate Settlers", EE5:Oct 73:621:10051

Virmani, J. K.
Discharge, Slope, Bed Element Relations in Streams, with Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73

Virola, Juhani
Dsc, CE:Jan 71:59, on Newport Suspension Bridge, CE:Aug 70:64

Visweswara Rao, J.
See B. S. Rama Rao, HY9:Sept 73:1515:10001

Vitagliano, Vincent J.
Industry Continuing Engineering Education, CEE:Feb 74:1-868

Vitez, Bela
Dsc, CE:May 71:59, on St. Louis Power Plant to Burn City Refuse, CE:Jan 71:56

Vittetoe, Gene C.
See H. N. McGill, IR73:Aug 73:501

Vives, A.
See A. Sandoval, TB:73:C-P-472

Vizcaino, Aurelio Bemassini
Dsc, with Vicente Casales Lattuada, PES:73:III-135, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589
Dsc, with Vicente Casales Lattuada, PES:73:III-135, of "Hydraulic Fracturing in Low Dams of Dispersive Clay", PES:72:I-653

Vlachos, Evan
Organizational Alternatives in Consolidating Irrigation Systems, OIDS:72:317

Vogel, Allan H.
See Raymond P. Canale, TN: EE1:Feb 74:231:10309

Vogel, C.
Dsc, with A. Baracos, SM11:Nov 73:1016:10112, of "Analysis of Ultimate Loads of Shallow Foundations", SM1:Jan 73:45:9480

Vogel, Herbert D.
Dsc, TE4:Nov 69:704:6868, of "Economic Location of Locks", TE1:Feb 69:77:6397
Dsc, CE:Jan 74:22, on ASCE Concern with Professional Conduct, CE:Oct 73:77

Vogelein, Glenn
Dsc, Industrial Relations and Manpower in Construction, by Daniel Quinn Mills (Book Review), CE:Sept 72:38

Vogelsinger, Bruce
Dsc, Magazine Cover Violation, CE:Sept 74:34

Voice, Ralph E., Jr.
Quality Assurance, EPMT:73:59

Voight, Barry
State of Predictive Art in Subsidence Engineering, with William G. Pariseau, SM2:Mar 70:721:7187
Dsc: Birger Schmidt, SM5:Sept 70:1841:7499; R. J. Orchard, SM6:Nov 70:2162:7643; Richard E. Gray and Henry A. Salver, SM1:Jan 71:258:7785; W. S. Allen, SM1:Jan 71:260:7785; Koehler Stout, SM1:Jan 71:261:7785
TR:136:890

Volk, Kenneth Quinton
Memoir of, TR:137:1073

Volker, Raymond Edward
Nonlinear Flow in Porous Media by Finite Elements, HY6:Nov 69:2093:6927
Dsc: Horace A. Johnson, HY6:June 70:1370:7310; Alan K. Parkin and Ian C. O'Neill, HY7:July 70:1645:7384
Clo: HY2:Feb 71:348:7863
TR:136:336

Volkert, John
Dsc, CE:Dec 70:54, on Ecological Values and Regional Planning, CE:Aug 70:40

Volkman, Robert C.
Remote Terminal Cost Estimating, with LeRoy T. Boyer, CO1:Mar 72:1:8756
TR:138:133

Vollmer, Arnold H.
The Numbers Game, UT73:May 73:77
Urban Planning and Development of River Cities, UP1:Mar 70:59:7144
Dsc: Robert L. McFall, UP2:Oct 70:168:7571
TR:136:906

Vollmers, Hans
Elbe Tidal Model with Movable Bed, with Egon Giese, CE13:72:III-2447
Tidal Waves in Schematic Estuaries, with Jurgen Sundermann, 12CEC:71:2133
Dsc, with Egon Giese, HY6:June 70:1357:7310, of "Instability of Flat Bed in Alluvial Channels", HY5:Sept 69:1545:6770
Dsc, with Egon Giese, HY12:Dec 70:2649:7711, of "Initial Instability of Fine Bed Sand", HY3:Mar 70:619:7139
Dsc, HY2:Feb 72:393:8681, of "Sediment Transportation Mechanics: H. Sediment Discharge Formula, Task Committee for Preparation of Sedimentation Manual, Sedimentation Committee, Hydraulics Division", HY4:Apr 71:523:8076
See Jurgen Sundermann, CE13:72:III-2413

Volpe, John A.
Volpe Receives Washington Award, CE:Mar 73:60

von Fuchs, George
See Joseph F. Gloudeman, ST8:Aug 69:1776:6707

von Oettingen, Sergius
See William O. Pruitt, IR2:June 72:177:8941

Von Riesemann, Walter A.
Dsc, ST8:Aug 68:2022:6050, of "Analysis by Group Iteration Using Substructures", ST2:Feb 68:363:5779
See James A. Stricklin, ST9:Sept 71:2299:8392

von Seggern, Otto C.
Dsc, PP4:Oct 72:735:9224, of "Action in Public Affairs -- A Way of Life", PP2:Apr 72:181:8797
Dsc, PP4:Oct 72:735:9224, of "Professional Liability Insurance", PP2:Apr 72:213:8820

Voorhees, Alan M.
Opportunities for Civil Engineers in Planning, CE:Sept 69:96
TR:135:869

Vopelak, Edwin L.
Integrated Management of Metropolitan Water Services, UWRM:71:36

Vormeringer, Raymond
Dsc, SM2:Mar 69:686:6429, of "Graphical Stability Analysis of Slopes in Jointed Rock", SM2:Mar 68:497:5865
See Pierre Londe, SM1:Jan 69:235:6363
See Pierre Londe, SM4:July 70:1411:7435

Vortman, Luke J.
See George C. Love, SU1:Oct 69:125:6857

Vos, Robert G.
Generalization of Plate Finite Elements to Shells, EM2:Apr 72:385:8828
TR:138:223
Dsc, ST5:May 73:960:9693, of "Finite Element Thermoelastoplastic Analysis", ST7:July 72:1585:9068

Voutyras, Constantine
Reverse and Direct Reservoir Routing Method Sets Highway Grade, CE:Oct 69:56
TR:136:11

Vreeland, Robert P
Adjustment of Traverses, SU1:Oct 69:25:6816
TR:135:904
Dsc, Public relations, CE:Sept 70:83
The Unsymmetrical Vertical Parabola, SU1:Jan 68:61:5739
Dsc: R. Robinson Rowe, SU2:Sept 68:280:6091; Frederic T. Mavis, SU2:Sept 68:285:6091
Clo: SU1:Oct 69:177:6804
TR:135:658

Vreugdenhil, C. B.
Dsc, with A. H. De Vries, HY9:Sept 72:1723:9156, of "Cavitation in Horizontal Pipelines Due to Water Hammer", HY10:Oct 71:1585:8440

Vu, Truong Tri
See Andre Leclerc, SA6:Dec 72:937:9401
See Andre Leclerc, SA6:Dec 72:1046:9393

Vucetic, Jelena
Dsc, HY8:Aug 70:1723:7439, of "Stability of Oscillations in Simple Surge Tank", HY5:Sept 69:1577:6773

Vuchic, Vukan R.
"Quo Vadis, ASCE?", CE:June 73:59
  Dsc: Carl H. Zweben, CE:Sept 73:29; Robert G. Brown, CE:Sept 73:31; Henry F. Ball, Jr., CE: Sept 73:31; Allen B. Radcliffe, Jr., CE:Sept 73: 32; Dennis R. Neuzil, CE:Oct 73:34; William W. Stelle, CE:Oct 73:34; Charles W. Griffin, Jr., CE:Jan 74:22
  TR:139:238

Vyas, Shyam K.
See Tien H. Wu, SM4:Apr 73:323:9687

Waagaard, Knut
Dsc, ST5:May 74:1147:10506, of "The Shear Strength of Reinforced Concrete Members", ST6: June 73:1091:9791

Waas, Gunter
See John Lysmer, EM1:Feb 72:85:8716

Wachs, Alberto M.
See Yair Folkman, SA3:June 70:675:7332

Wachs, Martin
Public Transit and Job Access in Chicago, with Joseph L. Schofer, TE2:May 72:351:8888
  TR:138:170
Systems Analyst's View of Noise and Urban Planning, with Joseph L. Schofer, UP2:Oct 70:147: 7639
  TR:136:948
See G. Scott Rutherford, UP2:Sept 73:157:9985

Wada, Akira
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, ISSF:Aug 72: 451

Waddell, G. G.
See E. H. Skinner, RM14:73:754

Waddick, Robert K.
See Leif E. Fugelso, EM6:Dec 68:1337:6266

Wade, Mason D., Jr.
See R. Gordan Cook, HY1:Jan 68:31:5717

Wade, Neil H.
See W. D. Liam Finn, SM6:Nov 67:297:5611
See Leonard Domaschuk, SM2:Mar 69:561:6461

Wadell, Robert P.
Effective Project Management Techniques, EPMT:73, 77pp.
  TR:139:550

Wadlin, George K., Jr.
Profile of ASCE Membership, CE:Jan 72:39
  TR:138:5
A Profile of ASCE Membership, PP2:Apr 72:195: 8843
  TR:138:312

Waggoner, Eugene B.
Dsc, IR4:Dec 69:621:6930, of "Role of Irrigation in the West's Expanding Economy", IR4:Dec 68:401: 6281

Wagle, Harold H.
The Public Discussion of the Work of Other Engineers—Ethical or Unethical, EI1:Jan 74:37: 10268

Wagner, Fred P., Jr.
Dsc, TE3:Aug 73:682:9896, of "Four-Day Week and Transportation", TE3:Aug 72:705:9116

Wagner, Gary
See Paul M. Berthouex, TN: EE6:Dec 74:1303:10978

Wagner, Norman K.
See Clayford T. Grimm, CO3:Sept 74:319:10783

Wagner, Ralph
Dsc, EE1:Feb 73:97:9521, of "Research Needs in Sanitary Engineering", SA2:Apr 72:299:8833
See Ray Morales, CWFE:Mar 71:43

Wahanik, Rudolf J.
Circulating Water Systems Without Valves, PO2:Oct 72:187:9264
  TR:138:571

Wahi, Pran N.
Management Science and Gaming in Waste Management, with Theodore I. Peterson, SA5:Oct 72:693:9253
  TR:138:476

Wahl, Howard W.
Engineering Innovations for Davis-Besse Containment, PO1:May 73:125:9697
  TR:139:130

Wahl, Lucien
See Gaylord R. Claiborne, TB:73:Ib-8-541

Wahler, William A.
Determination of the Adequacy of Investigations for Evaluation of Dam Safety, IMROD:Sept 73:714
Earthquake Research Applied to Slope Stability, CO1:July 73:1:9837
  TR:139:417

Wahls, Harvey E.
See Ronald E. Smith, SM2:Mar 69:519:6452
See James P. Olson, TN: SM8:Aug 71:1139:8307
See William F. Marcuson, III, SM12:Dec 72:1359: 9442

Waidelich, A. T.
Dsc, CE:Sept 71:93, on Engineering-Architecture Interprofessional Practice, CE:Apr 71:37

Wainwright, Peter J.
See Lawrence H. Martin, ST11:Nov 73:2229:10129

Waite, Thomas D.
Role Of Benthic Plants in Fertilized Estuary, with Ralph Mitchell, SA5:Oct 72:763:9293
  TR:138:482

Waitt, Frank W.F.
Systemic Variation Pattern of Annual River Flows, with Ian C. O'Neill, HY3:May 69:787:6531
  Dsc: Robert L. McFall, HY6:Nov 69:2205:6866; Antonio Quintela, HY3:Mar 70:845:7113
  Errata: HY4:Apr 70:1044:7189
  Clo: HY9:Sept 70:1876:7497
  TR:136:47

Wakabayashi, Minoru
Elasto-Plastic Behavior of Encased Structures, with Takeo Naka and Ben Kato, TB:73:II-16-525
Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, TB:73:II-15-343

Wakhlu, Omkar N.
Dsc, HY1:Jan 73:274:9459, of "Obtaining Overland Flow Resistance by Optimization", HY3:Mar 72: 429:8773
Dsc, HY10:Oct 74:1484:10839, of "Extreme Roughness of Natural River Channel", HY7:July 73:1027:9831

Waldorf, Wallace A.
Angat Project - The Leak in Tunnel Two, PO4:Dec 71:799:8571
  TR:137:902

Walesh, Stuart G.
Bottom Withdrawal of Viscous Stratified Fluid, with Peter L. Monkmeyer, HY9:Sept 73:1401:10018
  Errata: HY8:Aug 74:1182:10696
  TR:139:384
Floodland Management: The Environmental Corridor Concept, HYB:Aug 73:105

Simulation in Watershed Planning, HY9:Sept 73:1383:10020
Errata: HY8:Aug 74:1182:10696
TR:139:386

Walker, Alastair C.
Dsc, with Ralph G. Dawson, ST6:June 70:1250:7314, of "Effective Width of Thin Plates in Compression", ST10:Oct 69:2183:6837
See Ralph G. Dawson, ST1:Jan 72:75:8630

Walker, Fred C.
Treatment of High Embankment Dam Foundations, with R. W. Bock, SM10:Oct 72:1099:9272
TR:138:491

Walker, Frederick K.
See George G. Goble, PES:72:I-1243

Walker, H. Carl
"PCI Post-Tensioning Manual" ed. Clifford Freyermuth (Book Review), CE:Feb 74:28

Walker, H. E.
See Bent A. Christensen, CEO-II:70:743

Walker, J. E.
See Kenneth R. Piech, SU2:Nov 71:185:8507

Walker, James R.
Recreational Surfing on Hawaiian Reefs, with Robert Q. Palmer and Joseph K. Kukea, CE13:72:III-2597
See Robert Q. Palmer, 12CEC:71:1629

Walker, John J.
See Harold G. Arthur, PO1:Jan 70:129:7034

Walker, John N.
See Donald C. Slack, SM4:July 70:1143:7391

Walker, Leland J.
Social Problems: A Concern for Civil Engineers, PP1:Jan 73:53:9494
TR:139:133
See William A. Hunt, CEE:Feb 74:2-322

Walker, Leonard K.
Secondary Compression in the Shear of Clays, SM1:Jan 69:167:6348
TR:136:664
Dsc, SM1:Jan 69:409:6324, of "General Stress-Strain-Time Function for Soils", SM1:Jan 68:21:5728
Dsc, SM1:Jan 70:319:6989, of "Time Dependent Deformation of Normally Consolidated Clays and Peats", SM1:Jan 69:1:6337

Walker, Thomas W.
See E. Alan Cassell, SA1:Feb 70:15:7053

Walker, W. Roger
Importance of Flow Measurement in Water Control, IRS:Sept 72:131

Walker, William Hamilton
See J. E. Stallmeyer, ST12:Dec 68:2739:6290

Walker, William R.
Amortization of Nonconforming Uses in Flood Plains, UP1:Mar 70:1:7125
TR:136:779
Deep-Well Disposal of Wastes, with Ronald C. Stewart, SA5:Oct 68:945:6171
Dsc: Ronald D. Sadow, SA5:Oct 69:966:6802
Errata: SA5:Oct 70:1267:7569
Clo: SA2:Apr 70:610:7190
TR:135:706
State Water Rights Laws, IR4:Dec 73:449:10217
Dsc: John W. Bird, IR3:Sept 74:402:10771
TR:139:520
Subsurface Environment—Private Property or Public Domain?, with William E. Cox, HY11:Nov 74:1699:10958
Dsc, IR2:June 73:195:9761, of "General Statement of Principles to be Included in State Water Rights Laws", IR2:June 72:317:8996
See William C. Ray, SA3:June 68:507:6005

Walker, Wynn R.
Controlling Salinity by Lining Distribution System, IRS:Sept 72:113
See Gaylord V. Skogerboe, IR3:Sept 70:309:7542
See Gaylord V. Skogerboe, HY4:Apr 71:609:8012
See Gaylord V. Skogerboe, IR4:Dec 72:569:9438
See Gaylord V. Skogerboe, HY6:June 73:921:9799

Wall, John F.
Federal Reorganization to Protect the Environment, with Leonard B. Dworsky, PP2:Apr 72:227:8829
TR:138:289

Wall, Kevin
Dsc, TE1:Feb 72:146:8685, of "Planning for Campus Traffic and Parking", TE1:Feb 71:63:7880

Wall, William J.
See Walter B. Benton, PO1:Jan 70:109:7029

Wallace, Alfred T.
Analysis of Equalization Basins, SA6:Dec 68:1161:6310
TR:136:713
Characterization of Time-Varying Organic Loads, with Donald M. Zollman, SA3:June 71:257:8167
Dsc: Francis Clay McMichael and Frank C. Vigani, SA2:Apr 72:444:8800
TR:137:983

Wallace, B. J.
Foundation Practices for Talbingo Dam, Australia, with J. I. Hilton, SM10:Oct 72:1081:9273
TR:138:492

Wallace, Felix A.
Dsc, CE:Feb 72:46, on Professional Input to Engineering Education, CE:Aug 71:27

Wallace, George Brown
Identification of R&D Needs for Subsurface Site Investigations, EFSE:Aug 74:372
Dsc: George Brown Wallace, EFSE:Aug 74:385; Larry H. Heflin, EFSE:Aug 74:385
Dsc, EFSE:Aug 74:385, of "Identification of R&D Needs for Subsurface Site Investigations", EFSE:Aug 74:372
See Merlin D. Copen, PO2:Mar 71:455:7964

Wallace, James R.
Urban Water Management Needs in Runoff and Flood Regulation, UWRM:71:32

Wallace, Ralph H.
See William W. Moore, CEE:Feb 74:1-905

Wallace, Roger
See Ernest F. Brater, CE13:72:III-1703

Wallen, George H.
Multiobjective Planning for Environmental Quality, IRS:Sept 72:359

Waller, D. H.
See William C. Lee, NSCD:71:203

Wallingford, V. M.
Dam Has Slipformed Upstream Face, Precast Downstream Face, CE:Nov 70:49
Errata: Correction, Bryant Mather, CE:May 71:82
TR:136:1022

Wallis, Craig
See Mark D. Sobsey, EE3:June 73:245:9778

Wallis, W. Richard
Dsc, Valuation and Appraisal, CE:June 70:62

Walpole, Warren R.
Elasto-Plastic Seismic Response of Reinforced Concrete Frame, with Robin Shepherd, ST10:Oct 69:2031:6813
  Dsc: James C. Anderson and Vitelmo V. Bertero, ST6:June 70:1246:7314; O. A. Glogau, ST6:June 70:1249:7314
  Clo: ST12:Dec 70:2664:7714
  TR:136:261

Walser, Adolf
See Glen A. Chauvin, PO3:June 70:400:7355
See German R. Gurfinkel, PO1:June 72:133:8997
See C. N. Krishnaswamy, ST7:July 73:1664:9826
See Ajaya K. Gupta, EPCE:Aug 74:307

Walsh, P. F.
Stress Intensity Factors by Calibrated Finite Element Method, TN: EM6:Dec 72:1611:9396

Walsh, Peter
See John B. Herbich, HY9:Sept 72:1691:9216

Walsh, Raymond
See Richard L. Rosenberger, SA05:Oct 68:913:6164

Walsh, Stephen
Least Cost Method for Sewer Design, with Linfield C. Brown, EE3:June 73:333:9796
  TR:139:181

Walski, Thomas M.
Consumers Water Quality Index, with Frank L. Parker, EE3:June 74:593:10601

Walter, Boyd H.
Construction and Operation of Pump Irrigation Facilities Along the Columbia and Okanogan Rivers, OIDS:72:161

Walter, H. J.
Dsc, CE:Feb 71:55, on Dsc, Inspector vs. Quality Engineer, CE:Oct 70:52

Walters, Glenn R.
Bicycle Registration, BP73:Dec 73:515

Walters, Joseph D.
Alkali-Silica Reaction: A Major Cause of Concrete Deterioration, IMROD:Sept 73:464
See Eric B. Kollgaard, IMROD:Sept 73:528

Walther, A. W.
See J. N. Svasek, CE13:72:II-865

Walther, Eric G.
See Michael D. Williams, EPCE:Aug 74:601

Walton, C. Michael
Transportation Education and Research: A Multidisciplinary Approach, with William Ronald Hudson, CEE:Feb 74:1-200

Wambach, William T., Jr.
Where, Oh Where, Is Your Right-Of-Way Line? CE:Mar 73:52
  Dsc: William G.G. Blakney, CE:July 73:22
  TR:139:101
Dsc, SU2:Nov 71:339:8487, of "Coordinates Versus Confusion", SU2:Sept 70:191:7528

Wanaselja, Harold
New Triangle in Commuter Service, TE3:Aug 71:501:8338
  TR:137:973

Wandmacher, Cornelius
A New Profile for Engineering -- Emergence of a Learned Profession, CEE:Feb 74:1-469
Dsc, PP1:Sept 70:148:7549, of "One Man's View of Registration Today", PP1:July 69:1:6653

Wang, C. C.
Structural Design of Wells Hydrocombine, PO2:Mar 71:281:7980
  Errata: PO1:June 72:171:8927
  TR:137:665

Wang, Chen H.
Optimum Design of Prestressed Concrete Members, ST7:July 70:1525:7422
  TR:137:87

Wang, Cheng W.
Dsc, TE3:Aug 73:679:9896, of "Computer Simulation of Waterhammer Effects", TE3:Aug 72:521:9104

Wang, Chu-Kia
See Ottar P. Halldorsson, ST7:July 68:1745:6032

Wang, Chung-su
Analysis of Vibration of Hollow-Cone Valves, EM6:Dec 73:1147:10215
  Errata: EM6:Dec 74:1266:10972
  TR:139:522
See James J. Sharp, TN: HY7:July 74:1085:10640

Wang, Chun-Tsung
Dsc, HY7:July 70:1658:7384, of "Ripple Concentration and Friction Factor", HY2:Feb 70:417:7067
Dsc, with Harry G. Wenzel, Jr., HY7:July 70:1660:7384, of "Laminar and Turbulent Overland Flow Hydrographs", HY2:Feb 70:441:7069
Dsc, HY8:Aug 70:1777:7439, of "Cell Method for Computing Lake Circulation", HY3:Mar 70:725:7152
Dsc, HY9:Sept 70:1920:7497, of "Resistance to Flow over Two-Dimensional Strip Roughness", HY3:Mar 70:815:7181
See Cheng-lung Chen, HY5:Sept 69:1671:6790

Wang, Hsiang
Behavior of a Slender Body in Shallow-water Waves, with Li-San Hwang, CEC:71:1723
Loadings on Large Piers in Waves and Currents, 12CEC:71:1491
Mathematical Modeling of Large Objects in Shallow Water Waves and Uniform Current, CE13:72:III-1783
Water Wave Pressure on Horizontal Plate, HY10:Oct 70:1997:7629
  Dsc: Jonathan A. French, HY4:Apr 71:635:8012
  Clo: HY12:Dec 71:2088:8552
  TR:137:174
See Mehmet Aziz Tayfun, WW3:Aug 73:309:9930

Wang, John D.
See Ivar G. Jonsson, 12CEC:71:489

Wang, Kuang K.
See Calvin P.C. Poon, EE4:Aug 73:489:9944

Wang, Lawrence K.
See Mu-Hao Wang, EE3:June 74:629:10574

Wang, Leon Ru-Liang
Elasto-Plastic Deflection of Tubular Beams, ST2:Feb 69:159:6379
  Dsc: A. Anthony Toprac, ST11:Nov 69:2539:6867
  Clo: ST5:May 70:982:7250
  TR:135:9248
Parametric Matrices of Some Structural Members, ST8:Aug 70:1735:7494
  TR:136:1026
Dsc, with Lap-Yan Chu, ST5:May 72:1202:8861, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71:2203:8353
Dsc, ST1:Jan 74:269:10253, of "Optimum Plastic Design of Steel Frames", ST8:Aug 72:1697:9154

Wang, Mian C.
See William E. Kelly, TN: GT3:Mar 74:383:10420

Wang, Mu-Hao
Removal of Lignin from Water by Precipitate Flotation, with Marvin L. Granstrom, Thomas E. Wilson and Lawrence K. Wang, EE3:June 74:629:10574

Wang, Neng-Ming
Large Deflection of Shallow Paraboloid Shells, with Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929
TR:139:414

Wang, Ping Chun
See Harold Switzky, ST4:Apr 69:695:6522
See Zachary Sherman, EM3:June 71:741:8192

Wang, Robert S. C.
Continuously Supported Cylindrical-Conical Tanks, with Phillip L. Gould, ST10:Oct 74:2037:10876

Wang, Shien T.
Post-Local-Buckling Behavior of Continuous Beams, with Sheng S. Yeh, ST6:June 74:1169:10595
Dsc, ST5:May 71:1639:8084, of "Rational Design of Light Gage Beams", ST7:July 70:1535:7421
See Albert L. Johnson, ST1:Jan 69:117:6325

Wang, Stephan S-K
Plastic Buckling Of Point-Loaded Spherical Shells, with Sanford B. Roberts, EM1:Feb 71:77:7930
TR:137:118

Wang, Sue K.
Advanced Analysis of Rigid Pavements, with Michel A. Sargious and Yau-Kai Cheung, TE1:Feb 72:37:8699
Dsc: Yang H. Huang, TE1:Feb 73:185:9526
Clo: TE3:Aug 73:677:9896
TR:139:4
Effect of Openings on Stresses in Rigid Pavements, with Michel A. Sargious and Yau-Kai Cheung, TE2:May 73:255:9721
TR:139:243

Wang, Tung-Ming
Postbuckling of Column under Distributed Axial Load, TN: EM4:Aug 71:1323:8273
Tapered Cantilevers with Varying Distributed Loads, with Chun-Hsiung Lee, TN: EM4:Aug 73:919:9898

Wang, W. C.
Dsc, EE6:Dec 74:1298:10971, of "Nutrients And Aquatic Vegetation Effects", EE2:Apr 74:269:10453

Wang, Wen L.
Low Velocity Projectile Penetration, SM12:Dec 71:1635:8592
Dsc: James A. Cheney, SM9:Sept 72:974:9158
TR:138:104
Soil Arching in Slopes, with Bing C. Yen, GT1:Jan 74:61:10300

Wang, Yung-shih
Buckling of Cylindrical Shells by Wind Pressure, with David P. Billington, EM5:Oct 74:1005:10874
Simplified Theory of Thin Cylendrical Shells, with Peter C.Y. Lee and David P. Billington, EM4:Aug 74:719:10720

Wanhill, Stephen R.C.
Further Analysis of Optimum Size Seaport, WW4:Nov 74:377:10961

Wany, Y. H.
See F. K. Browand, ISSF:Aug 72:493

Warbington, A. Lee
Additions To Chief Joseph Dam Power Project, PO2:Mar 71:493:7970
TR:137:202

Warburton, Geoffrey B.
Dsc, ST5:May 71:1648:8084, of "Nonsymmetric Vibrations of Thin Cylindrical Shells", ST10:Oct 70:2175:7632
Dsc, with John Higgs, EM6:Dec 71:1743:8551, of "Vibration Analysis of Thin Cylindrical Containers", EM2:Apr 71:317:8010

Ward, C. D.
DSC, Special Issue on Urban Development, CE:Jan 70:73
Dsc, CE:Jan 70:73, on A Black Civil Engineer Looks at His Profession, CE:Sept 69:93

Ward, Dan S.
See George O.G. Lof, CE:Sept 73:88

Ward, E. G.
Gulf of Mexico Meteorology and Oceanography Data, WAVES:Sept 74:233

Ward, Edward J.
Systems Approach to Choice in Transport Technology, TE4:Nov 70:455:7656
TR:136:1248

Ward, Gerald M.
See Charles H. King, Jr., IR73:Aug 73:99

Ward, Howard S.
See W. Alan Dalgliesh, ST4:Apr 71:1370:8015

Ward, Jack W.
Report of Workshop B's Second Meeting -- Construction Specifications, Equipment, and Systems for Concrete Dams, ECCD:72:337

Ward, Joe E.
Memoir of, TR:137:1075

Ward, Joseph S.
ASCE's Involvement in Pension Concepts, CE:Sept 73:93
TR:139:412
Feedback from Engineering Practitioners - Summary and Review, CEE:Feb 74:2-79

Ward, Peter R.B.
Measurement of Dye Concentrations by Photography, EE3:June 73:165:9768
TR:139:93
Prediction of Mixing Lengths for River Flow Gaging, HY7:July 73:1069:9856
Dsc: John A. Cole, HY8:Aug 74:1167:10696; Shrikrishna V. Chitale and K. S. Rajagopalan, HY10:Oct 74:1487:10839
TR:139:330
Transverse Dispersion in Oscillatory Channel Flow, HY6:June 74:755:10589

Ward, William H.
Performance of Braced Excavations in London Clay, PES:73:III-257

Warden, Roy Elisha
Memoir of, TR:135:1151

Wardle, David G.
See Roy E. Coxon, HY2:Feb 73:301:9562

Ware, Kenneth R.
Continuing Education of Construction Management Personnel, CEE:Feb 74:1-881
Tieback Wall Construction - Results and Controls, with Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Dsc: Robert E. White, GT10:Oct 74:1167:10838
TR:139:539

Waring, David M.
See Theodore G. Biehl, CE:Sept 72:62

Warner, Dennis
The Challenge to Civil Engineering, CE:July 72:66
Dsc: Dennis C. Cook, CE:Oct 72:63
TR:138:339

Warner, James
Planning and Performing Compaction Grouting, with Douglas R. Brown, GT6:June 74:653:10606
Strength Properties of Chemically Solidified Soils, SM11:Nov 72:1163:9332
Dsc: Bruce A. Lamberton, SM8:Aug 73:637:9892; D. W. Fawcett, SM8:Aug 73:638:9892; A. L. Ruiz and John P. Gnaedinger, SM10:Oct 73:889:10038; Claude Caron, SM10:Oct 73:891:10038
Clo: GT5:May 74:549:10504
TR:139:160
Dsc, SM1:Jan 69:429:6324, of "Chemical Grouting Technology", SM1:Jan 68:175:5748
Dsc, SM2:Mar 69:648:6429, of " Guide Specifications for Chemical Grouts", SM2:Mar 68:345:5830
See Douglas R. Brown, SM8:Aug 73:589:9908

Warner, Marvin E.
See William D. Alexander, CE:Oct 72:77

Warner, Robert F.
Biaxial Moment Thrust Curvature Relations, ST5:May 69:923:6564
TR:135:134
Monte Carlo Study of Structural Safety, with A. P. Kabaila, ST12:Dec 68:2847:6275
TR:135:836
Dsc, ST2:Feb 69:273:6373, of "Slender Prestressed Concrete Columns", ST4:Apr 68:875:5886
Dsc, ST9:Sept 72:2124:9159, of "Slender Concrete Columns Under Sustained Load", ST11:Nov 71:2729:8544
See Tuck Wah Leong, ST3:Mar 70:509:7150

Warnes, Cloyd E.
Structural Design of Concrete Pavement by Computer, TE1:Feb 72:1:8698
TR:138:25
See E. Guy Robbins, TE1:Feb 73:17:9555

Warnock, Richard G.
Dsc, with Tagadur P. Halappa Gowda, HY12:Dec 72:2231:9391, of "Dispersion in Natural Streams", HY11:Nov 71:1867:8540

Warren, Frederick H.
Environmental Impact on Project Schedules, PP3:July 73:299:9877
TR:139:344

Warshavsky, Moshe
See Michael Poreh, HY4:Apr 70:903:7208

Warshaw, Robert
See Walter S. Douglas, ST4:Apr 71:1129:8040

Warszawski, Abraham
Analysis of Transportation Methods in Construction, CO1:July 73:191:9890
Dsc: Rex K. Rainer and Robert W. Gibson, CO1:Mar 74:103:10377
Clo: CO4:Dec 74:649:10970
TR:139:549
Formal Education in Construction Management, CO2:Sept 72:251:9164
TR:138:332
See Shlomo Peer, CO2:Sept 72:287:9166

Warwaruk, Joseph
See Arthur E. McMullen, ST5:May 70:885:7270
See Priya R. Mukherjee, ST4:Apr 71:1063:8041

Wary, Richard M.
Dsc, SM2:Feb 71:480:7866, of "Safety Analysis of Slopes", SM2:Mar 70:609:7174

Washburn, Charles A.
Dsc, PO1:May 73:9690, of "Water Consumption Study for Navajo Plant", PO4:Dec 71:749:8564

Washington, Donald R.
See Leo J. Hetling, SA6:Dec 69:1206:6931

Wasil, Benjamin A.
See James A. Mandel, ST7:July 71:1947:8260

Wasp, E. J.
Initial Economic Evaluation of Slurry Pipeline Systems, with T. L. Thompson and T. C. Aude, TE2:Apr 71:271:8106
Dsc: Robert R. Faddick, TE1:Feb 72:148:8685
Clo: TE4:Nov 72:9309
TR:137:764

Wasserman, Al
Contractual Pitfalls, EPMT:73:37

Wasti, S. Tanvir
See Alexander C. Scordelis, ST10:Oct 73:2031:10069
See Jack G. Bouwkamp, ST1:Jan 74:31:10293

Wastler, T. A.
Water Quality Monitoring For Pollution Control On The Continental Shelf, with Harold Berkson, CEO-II:70:221

Wastlund, Georg
Banquet Remarks at the Tall Buildings Conference, TB:73:C-526
Structural Design of Tall Concrete and Masonry Buildings, Preface, with Raymond C. Reese, TB:73:III-1

Watanabe, Akira
See Kiyoshi Horikawa, 12CEC:71:751

Watanatada, Thawat
Least-Cost Design of Water Distribution Systems, HY9:Sept 73:1497:9974
Errata: HY9:Sept 74:1276:10770
TR:139:354
Dsc, HY4:Apr 73:693:9637, of "Hydraulic Network Analysis Using Linear Theory", HY7:July 72:1157:9031

Waters, C. B.
See Maurice J. Crickmore, CE13:72:II-1005

Watkins, Daniel J.
Surveying Responsibility of the Engineer-Manager, SU1:May 71:1:8101
TR:137:223

Watkins, Laverne L.
Corrosion Test of Steel Piling in Sea Water, WW3:Aug 71:549:8292
TR:137:977

Watkins, Leonard H.
Dsc, HY7:July 70:1625:7384, of "Urban Runoff by Road Research Laboratory Method", HY6:Nov 69:1809:6878

Watkins, Reynold K.
Minimum Cover for Buried Flexible Conduits, with Massood Ghavami and G. Reed Longhurst, PL1:Oct 68:155:6195
Dsc: A. Zelikson, TE4:Nov 69:688:6868
TR:135:233
See Alma P. Moser, CE:June 72:61

Watson, Arthur R.
Registration of Engineers, PP1:June 68:1:5983
Dsc: Richard R. Mayer, PP1:July 69:93:6642
Clo: PP1:Sept 70:143:7549
TR:135:319

Watson, Carl H.
See Julius H. Moor, HY6:June 71:777:8179

Watson, George H.
Dsc, SM4:July 70:1480:7385, of "In-place Treatment of Foundation Soils", SM1:Jan 70:73:7035
Dsc, PISST:71:131, of "In-Place Treatment of Foundation Soils", PISST:71:93

Watson, Ian
Transmission Lines Probe a New Frontier, The Ocean, with Joseph A. Fischer and Lawrence A. Salomone, EPCE:Aug 74:557

Watson, John G.
Dsc, PWS:Nov 72:161, of "Health Aspects of Water Management", PWS:Nov 72:133

Watson, Keith K.
See Frank D. Whisler, IR4:Dec 69:481:6946

Watson, William O.
Some Applications of Drainage Experience, IRS:Sept 72:1

Watters, Gary Z.
Hydrodynamic Effects of Seepage on Bed Particles, with Manam V.P. Rao, HY3:Mar 71:421:7973
Dsc: Neil L. Coleman, HY11:Nov 71:1921:8483; C. Samuel Martin, HY1:Jan 72:276:8620
Clo: HY8:Aug 72:1453:9076
TR:137:675
See Kenneth A. Mangelson, SA2:Apr 72:407:8849
See J. K. Virmani, HYB:Aug 73:73

Wattles, Gurdon H.
Dsc, SU2:Sept 68:293:6091, of "Photogrammetry for Right-of-Way Acquisitions", SU1:Jan 68:49:5735
Dsc, SU1:Oct 69:178:6804, of "On Writing Descriptions", SU2:Sept 68:101:6094
Dsc, CE:June 70:43, on Monuments vs. Plane Coordinates, CE:Dec 69:56

Watts, Frederick J.
Swimming Performance of Arctic Grayling, with Craig MacPhee, HYB:Aug 73:11
See Robert J. Luedtke, HYB:Aug 73:259

Watwood, Vernon B.
Dsc, EM4:Aug 73:891:9894, of "Large Eigenvalue Problems in Dynamic Analysis", EM6:Dec 72:1471:9433

Waugh, Richard G., Jr.
Economics of Channels and Maneuvering Areas for Ships, WW4:Nov 71:671:8537
TR:137:957
Water Depths Required for Ship Navigation, WW3:Aug 71:455:8309
Dsc: John S. McNown, WW2:May 72:287:8863
Clo: WW3:Aug 72:419:9081
TR:137:796

Waugh, William R.
What, Why and Where Of The Design And Construction Of Gravity Dams, RCCD:70:173

Wawersik, W. R.
Time-Dependent Rock Behavior in Uniaxial Compression, RM14:73:85

Wayman, Morris
See Edgar J. Dewar, NSCD:71:453
See Edgar J. Dewar, SA1:Feb 72:11:8703

Wayne, Warner W., Jr.
See Wayne A. Stewart, PO2:Dec 74:175:11005

Weatherford, George E.
The Civil Engineer in the Food Industry, CE:Aug 74:91

Weathers, John W.
See James E. Goddard, HY4:July 69:1321:6696

Weaver, C. L.
See J. G. Terrill, SA3:June 69:545:6620

Weaver, David A.
Dsc, TE3:Aug 73:685:9896, of "Local Rural Road Costs and Economies of Scale", TE4:Nov 72:881:9340

Weaver, David S.
See Gunaratnam Balachandran, TN: EM4:Aug 73:912:9898

Weaver, Theodore W.
Ecological Consequences of Winter Cloud Seeding, with Arlin B. Super, IR3:Sept 73:387:9988
TR:139:406

Weaver, William, Jr.
Dynamics of Tier Buildings, with Mark F. Nelson and Thomas A. Manning, EM6:Dec 68:1455:6293
TR:135:974
See Steve R. Lionberger, EM1:Feb 69:95:6393
See Garrison Kost, ST4:Apr 74:743:10481

Webb, Desmond L.
Effects of Vibroflotation on Clayey Sands, with R. Ian Hall, SM6:Nov 69:1365:6882
TR:136:233
Effects of Vibroflotation on Clayey Sands, with R. Ian Hall, PISST:71:393
Dsc, with Andrew L. Melvill, SM3:Mar 71:587:7943, of "Static Cone to Compute Static Settlement Over Sand", SM3:May 70:1011:7302

Webb, G. S.
See R. J. Mitchell, PES:72:I-1051

Webb, Robert S.
See Delbert M. Leppke, CO1:Mar 71:53:8002

Webber, Bruce R.
See R. S. Gupta, PO1:May 73:235:9756

Webber, Edward S.
Dsc, HY10:Oct 71:1787:8407, of "Mathematical Model For Water Distribution Systems", HY1:Jan 71:1:7797
Dsc, EE4:Aug 73:564:9893, of "Optimal Design of Urban Wastewater Collection Networks", SA6:Dec 72:853:9414

Webber, Norman B.
See Geoffrey N. Bullock, WW1:Feb 69:115:6374
See C. A. Greated, 12CEC:71:1951

Weber, Eric K.
Dsc, Metrics Only?, CE:Oct 74:28

Weber, Eugene W.
Function of the International Joint Commission, PO2:Nov 68:177:6236
TR:135:127
Strategies of American Water Management, by Gilbert F. White (Book Review), CE:Feb 70:30

Weber, Harold E.
Dsc, CE:Nov 73:22, on Putting Pollution Problems In Perspective, CE:Aug 73:64

Weber, John W.
Bending of Spectoral Plates with Clamped Edges, TN: EM2:Apr 73:440:9641

Weber, Paul R.
See Gerald W. Clough, PES:72:I-1367

Weber, Walter J., Jr.
Chemical Treatment, with Tom H. Forrest, CWFE:Mar 71:183
See Norbert A. Jaworski, SA3:June 70:727:7361
See Francis A. DiGiano, SA6:Dec 72:1021:9430

Weber, William G., Jr.
Performance of Embankments Constructed Over Peat, SM1:Jan 69:53:6333
Dsc: Robert E. Bigham, SM1:Jan 70:309:6989; Victor J. LoPinto, SM1:Jan 70:310:6989
Clo: SM5:Sept 70:1791:7499
TR:135:916

Webster, C. K.
See D. R. Denton, SDNPF:Dec 73:571

Wedgwood, Raymond J.L.
See Denison Campbell-Allen, ST3:Mar 71:825:7965

Weeden, Harmer A.
Recommended Right-of-Way Practices, CE:Apr 72:74
TR:138:211

Weeks, Colin G. McQ.
Hydrography and the Engineer, SU1:Sept 73:1:9981
TR:139:421

Weeks, George
Temporal Operators for Nonlinear Structural Dynamics Problems, EM5:Oct 72:1087:9260
TR:138:495

Weeks, L. O.
See Charles A. Bower, IR1:Mar 69:55:6437

Wees, James A.
Khazzan Dubai No. 1: Pile Design and Installation, with Robert S. Chamberlin, SM10:Oct 71:1415:8439
Dsc: Joaquin I. Fernandez-Zuazo, SM5:May 72:507:8860
Clo: SM11:Nov 72:9306
TR:137:1025

Weesner, D. L.
See R. E. Moore, IRS:Sept 72:243

Weeter, Dennis W.
Water Quality Management - Power Station Coal Ashes, with James E. Niece and Anthony M. DiGioia, Jr., EPCE:Aug 74:633
Dsc, SA5:Oct 72:805:9225, of "Research Needs in Sanitary Engineering", SA2:Apr 72:299:8833
See Archie J. McDonnell, SA2:Apr 72:325:8852

Weggel, Harold A.
Dsc, SM1:Jan 70:365:6989, of "Bridge Foundation Behavior in Alaska Earthquake", SM4:July 69:1007:6664

Weggel, J. Richard
Maximum Breaker Height, WW4:Nov 72:529:9384
Dsc: Frederick E. Camfield, WW3:Aug 73:410:9897; John J. Earattupuzha and Harihar Raman, WW3:Aug 73:410:9897; Cyril J. Galvin, Jr., WW4:Nov 73:499:10114
Clo: WW4:Nov 74:387:10903
TR:139:86
Maximum Breaker Height for Design, CE13:72:I-419
Numerical Model for Wave Pressure Distributions, with W. Hall C. Maxwell, WW3:Aug 70:623:7467
Dsc: Adel M. Kamel, WW2:Mar 71:433:8086
Clo: WW1:Feb 72:85:8686
TR:137:134
Dsc, WW3:Aug 71:584:8272, of "Shock Pressure on Coastal Structures", WW3:Aug 70:689:7487
See W. Hall C. Maxwell, HY2:Mar 69:677:6482

Wegmann, Frederick J.
Statewide Transportation Planning, with Everett C. Carter, TE2:May 73:323:9734
TR:139:278
Transit Industry Educational Interests, with Edward A. Beimborn, EI4:Oct 74:313:10863
Transportation Access to Special Generators, with John Ojo and Michael Kennedy, TE3:Aug 74:643:10728
See Dennis C. Judycki, TE2:May 70:185:7281
See Shiva K. Pant, TE3:Aug 71:421:8288
See John Whitman, TE3:Aug 72:531:9138
See Shiva K. Pant, TE1:Feb 73:151:9570
See Edward S. Neumann, TE4:Nov 73:827:10155
See Martin C. Nizlek, TE1:Feb 74:41:10339

Wegmuller, Anton W.
Full Range Analysis of Eccentrically Stiffened Plates, ST1:Jan 74:143:10286
Dsc: William S. Peterson, Celal N. Kostem and John M. Kulicki, ST9:Sept 74:1980:10772

Wei, Chien-Yung
Fundamental Frequencies of Axially Moving Beams, with John Peddieson, Jr., TN: EM4:Aug 71:1343:8273

Wei, Chi-Yuan
See Gordon H. Flammer, IR1:Mar 70:1:7124

Wei, Irvine Wen-Tung
Removal of Nematodes by Rapid Sand Filtration, with Richard S. Engelbrecht and John H. Austin, SA1:Feb 69:1:6384
TR:135:771

Wei, S. N.
See Timothy W. Kao, ISSF:Aug 72:581

Wei, Yau T.
See Anestis S. Veletsos, SM9:Sept 71:1227:8388

Weidler, Jay B.
An Analytical Description of the Behavior of Granular Media, with Paul R. Paslay, EM2:Apr 69:379:6491
TR:136:712
Constitutive Relations for Inelastic Granular Medium, with Paul R. Paslay, EM4:Aug 70:395:7475
TR:136:1023
See Paul R. Paslay, EM3:June 69:587:6611

Weidlinger, Paul
Automated Structural Analysis: An Introduction, by William R. Spillers (Book Review), CE:Apr 72:6
Shear Field Panel Bracing, ST7:July 73:1615:9870
TR:139:431
Stiffness and Crack Control, Theme Report, TB:73:III-24-639

Weidmann, Victor H.
See Duane L. Cronk, CE:Apr 71:40

Weight, Robert H.
Prestressed Pipe for Power Site in New Zealand, with A. Max Jensen and A. M. McConnell, PO2:Nov 68:143:6229
TR:135:236

Weil, James
Effect of Stream Turbulence on Heated Water Plumes (Abstract), with Hugo B. Fischer, HYB:Aug 73:189
Effect of Stream Turbulence on Heated Water Plumes, with Hugo B. Fischer, HY7:July 74:951:10674

Weiner, Bernard L.
Dsc, CE:Jan 73:63, on How Urgent the Need to Recycle Solid Waste, CE:Sept 72:107

Weingarten, Victor I.
Vibration of Conical Shells Subjected to Torsion, EM1:Feb 68:47:5783
TR:135:806
See Mehran Lashkari, EM5:Oct 72:1017:9230
See Henry R. Busby, Jr., EM1:Feb 73:55:9530

Weinhold, Herbert
Machine-Bored Caissons for Earth-Retaining Systems in Europe, CE:July 70:64
TR:136:556

Weir, David L.
NACE Paper: County Engineering Career Demands, CEE:Feb 74:1-354

Weisman, Richard N.
Measuring Solid-Liquid Mixtures in Closed Conduits, with Walter H. Graf, WW4:Nov 68:453:6232
  Dsc: Robert R. Faddick, WW3:Aug 69:429:7252
  Clo: WW2:May 70:551:7252
  TR:135:170
Dsc, CE:May 74:22, on The Fickle Mississippi, CE: Dec 73:60

Weiss, David M.
Analytical Approach to Railway Signal Block Design, with David R. Fialkoff, TE1:Feb 74:71:10369
Dsc, CE:Mar 72:45, on Current Mass-Transit Proposals: Answer to Our Commuter Problem?, CE:Dec 71:68

Weiss, Martin
See John R. Elwood, NSCD:71:189

Weissberg, Harold L.
See Chyan S. Chiou, TN: EM6:Dec 71:1759:8559

Weissmann, Gerd F.
Tilting Foundations, SM1:Jan 72:49:8671
  TR:138:152
Torsional Vibrations of Circular Foundations, SM9: Sept 71:1293:8402
  TR:137:793
Vibrator for Soil Testing, TN: SM3:Mar 71:601:7962

Welch, Otis T.
Hydrographic Survey Techniques on Mississippi, SU1:May 71:109:8123
  TR:137:921

Welch, R. E.
See E. Bergmann, SDNPF:Dec 73:425

Wellborn, Arvin S.
50th Birthday for Asphalt Institute, History of Asphalt and Asphalt Institute, CE:May 69:62
  TR:135:250

Wellons, Charles McCartney
Memoir of, TR:136:1374

Wells, Dan M.
Agricultural Waste Management, by the Committee on Agricultural Waste Management of the Environmental Engineering Division, EE1:Feb 74:1: 10317
High Plains Irrigation and Texas Water Plan, IR1: Mar 71:123:7960
  Dsc: Frederick L. Hotes, IR3:Sept 71:541:8346
  TR:137:875

Wells, Donald R.
Scour Around a Circular Cylinder due to Wave Motion, with Robert M. Sorensen, 12CEC:71:1263

Wells, Edwin A.
General Financial Programs for Regional and Large Wastewater Systems, with Jack H. McMinn, CWFE:Mar 71:147

Wells, Walter G.
Dsc, Tocks Island, CE:July 74:21

Welsh, Joseph P.
Present State of the Grouting Industry in the United States, EFFD:Mar 74:65

Welsh, William A.
See John D. Antrim, CEE:Feb 74:1-231

Welti, Clarence W.
See Kent A. Healy, SM11:Nov 72:1275:9306

Welton Becket and Associates
Century Park Plaza, TB:73:C-P-334
Citizens Fidelity Bank, TB:73:C-P-330
Clinton Square, TB:73:C-P-338
First & Merchants National Bank, TB:73:C-P-322
Hampshire Plaza, TB:73:C-P-342
One Hundred Summer Street, TB:73:C-P-314
Pittsburgh National Building, TB:73:C-P-310
Union Bank, TB:73:C-P-326
Valley Center, TB:73:C-P-318
Westchester County Courthouse, TB:73:C-P-302
200 West Monroe Building, TB:73:C-P-306

Wempner, Gerald A.
Finite-Element Analysis of Thin Shells, with J. Tinsley Oden and D. A. Kross, EM6:Dec 68:1273: 6259
  Dsc: Bharat L. Mehrotra and Aftab A. Mufti, EM4:Aug 69:1021:6705
  Clo: EM1:Feb 70:86:7044
  TR:135:954
Invariant Multicouple Theory of Shells, EM6:Dec 72: 1397:9444
  TR:138:577

Wen, Robert K.
Dynamic Analysis of Inelastic Space Frames, with Fereydoon Farhoomand, EM5:Oct 70:667:7621
  Clo: EM4:Aug 71:1296:8266
  TR:136:1113

Wen, Yi-Kwei
Analysis of Floating Plate Under Ocean Waves, with Masanobu Shinozuka, WW2:May 72:177:8889
  Dsc: Harihar Raman and Thiruvannamalai C. Gopalakrishnan, WW2:May 73:290:9694
  TR:138:317
Interaction of Ocean Waves with Floating Plate, EM2:Apr 74:375:10492
Tornado Risks and Design Wind Speed, with Shih-Lung Chu, ST12:Dec 73:2409:10249
  TR:139:539

Wend, Fred H.
See Herbert S. Riesbol, PO1:Jan 71:93:7811

Wendell, R. E.
See J. E. Norco, UT73:May 73:89

Wengenroth, Reece H.
Bridge Engineer Looks at Esthetics of Structures, ST4:Apr 71:1227:8074
  Dsc: John A. Burnes, ST11:Nov 71:2767:8485; John Cowan, ST1:Jan 72:367:8623
  Clo: ST8:Aug 72:1872:9079
  TR:137:603

Wengler, Roman P.
Design of Mossyrock Arch Dam, with William Y. J. Shieh, PO1:Jan 71:25:7805
  TR:137:160
Effect Of Safety Factor On Cost Of Arch Dams, RCCD:70:249

Wenk, Edward, Jr.
Coastal Waters and the Nation, CE:June 69:52
  TR:135:449
See Steven Flajser, PP2:Apr 73:245:9665

Wenke, Harry N.
See John M. Biggs, EC5:70:1
See John M. Biggs, ST1:Jan 71:13:7816

Wennerstrand, Jan
See Robert D. Holtz, PES:73:III-59

Wentworth, David F.
See Otis J. Sproul, NSCD:71:385

Wenzel, Harry G., Jr.
Photomicroscopic Sublayer Velocity Measurement, with Michael J. Mathews, HY12:Dec 70:2467:7724
  Errata: HY11:Nov 71:1903:8483
  TR:137:192
See Ben Chie Yen, HY3:Mar 70:801:7179
See Chun-Tsung Wang, HY7:July 70:1660:7384

See Yong Nam Yoon, HY9:Sept 71:1367:8373
See Ben Chie Yen, HY8:Aug 72:1395:9107

Wermenlinger, D.
Churchill Falls Power Facilities, with J. G.S. Thompson and J. M. Gardiner, PO2:Mar 71:515:7974
Errata: PO1:June 72:170:8927
TR:137:621

Wermers, Lyle G.
Urban Mass Transportation Planning, UP1:Mar 70:41:7128
TR:136:853

Wern, Allan H.
Prestressing For H.B. Robinson Nuclear Plant, with Morris Schupack and W. Larson, PO2:Mar 71:539:7992
TR:137:228
Dsc, ST3:Mar 72:782:8752, of "Plastic Liners for CANDU Containment Structures", ST10:Oct 71:2583:8435

Werner, Stuart D.
Dsc, with Samy A. Adham, SM5:Sept 70:1838:7499, of "Seismic Response of Soil Deposits", SM2:Mar 70:631:7175
Dsc, with John R. Hall, Jr., PO1:July 74:127:10636, of "Interaction of Soil and Power Plants in Earthquakes", PO2:Oct 72:273:9242

Werren, Fred
Structural Timber Research at Forest Products Lab, ST12:Dec 69:2891:6980
Dsc: John D. Bristor, ST9:Sept 70:1979:7567
Clo: ST4:Apr 71:1354:8015
TR:136:491

Wersan, Stephen J.
See Jimmie E. Quon, SA3:June 69:575:6626

Wesche, Thomas A.
Parameters Influencing Minimum Streamflow, with Paul A. Rechard, HYB:Aug 73:21

Wesler, Philip
See Werner Blum, CE:Jan 74:44

Wesley, Laurence D.
Tjipanundjang Dam in West Java, Indonesia, GT5:May 74:503:10543

Wesseling, J.
Dsc, IR1:Mar 70:101:7114, of "Flow Retardance in Vegetated Channel ", IR2:June 69:329:6633

Wessels, W. P.J.
Established Surge on an Impervious Vegetated Bed, IR1:Mar 68:1:5832
Dsc: Cheng-lung Chen, IR1:Mar 69:231:6930
Clo: IR4:Dec 69:587:6930
TR:135:421

West, Harry H.
Continuous Method of Suspension Bridge Analysis, with Arthur R. Robinson, ST12:Dec 68:2861:6280
Dsc: David G. Calder, ST9:Sept 69:1991:6755; Daniel Dicker, ST11:Nov 69:2526:6867
Clo: ST5:May 70:977:7250
TR:135:846

West, J. R.
An Evaluation of Mixing in the Tay Estuary, with David J.A. Williams, CE13:72:III-2153

West, Joseph F.
Planning and Construction of an Ellipsoidal Dome, CO2:Oct 68:113:6129
Errata: CO1:June 70:81:7308
TR:135:802

West, Leonard A.
Illinois Central Suburban Automated Revenue Collection System, TE1:Feb 71:117:7872
TR:137:105

Westberg, Robert J.
Sand Compaction by Vibroflotation at Cape May, New Jersey, with Herbert O. Ireland, PES:72:I-1037

Westbrook, Crawford C.
Pedestrian Mall: Purpose, Form, Design, Success, BP73:Dec 73:74

Westhoff, Leonard J.
See Philip W. Birkeland, TB:73:Ib-9-845

Westmann, Russell A.
See Juan Enrique Luco, EM5:Oct 71:1381:8416
See James D. Schmidt, EM6:Dec 73:1201:10211

Westneat, A. S.
Acoustic Sensing in Pipeline Determination, PITO:74:39

Westwood, Ian J.
See Charles K. Haswell, PO2:Oct 72:201:9297

Wetzel, Richard A.
Axisymmetric Stress Wave Propagation in Sand, with Eben Vey, SM5:Oct 70:1763:7539
TR:137:131

Wetzler, Theodore F.
See Winfred F. Maline, NSCD:71:307

Wevers, A.
See J. H. van Oorschot, CE13:72:II-1543

Wezenak, Chester T.
Evaluation of Nitrification in Streams, with John J. Gannon, SA5:Oct 68:883:6159
Dsc: Frank E. Stratton and Perry L. McCarty, SA5:Oct 69:952:6802; Wilber A. Blain, SA5:Oct 69:956:6802
Clo: SA3:June 70:842:7313
TR:136:692

Whalin, Clarence H.
See J. George Thon, PO1:Jan 70:157:7039

Whalin, Robert W.
Case History of Los Angeles-Long Beach Harbors, with Claude E. Chatham, Donald L. Durham and Ellis B. Pickett, WAVES:Sept 74:466
Wave Refraction Theory in a Convergence Zone, CE13:72:I-451

Whang, Benjamin
Dsc, ST1:Jan 72:386:8623, of "Elastic-Plastic Bending of Rectangular Plates", ST7:July 71:1863:8237

Wheby, Frank T.
Offshore Airport Site Planning, TE3:Aug 74:543:10725
Dsc, CO2:Nov 71:333:8482, of "Development of Tunneling Methods and Controls", CO2:Oct 70:99:7577

Wheeler, E. Todd
The Hospital as a Microenvironment, PP4:Oct 72:675:9292
TR:138:593

Wheeless, L. David
Mat Foundation and Preload Fill, VA Hospital Tampa, with George F. Sowers, PES:72:I-939

Wheen, Robert J.
See Anthony J. Wilson, ST3:Mar 74:565:10427

Whetstone, George A.
- Dsc, HY2:Mar 69:727:6433, of "Feasibility of Water Export", HY4:July 68:873:6024
- See Ernst W. Kiesling, CE:Apr 72:50

Whetstone, William D.
- Computer Analysis of Large Linear Frames, ST11: Nov 69:2401:6897
  - Dsc: H. Gordon Jensen and Gary A. Parks, ST8: Aug 70:1814:7442
  - Clo: ST4:Apr 71:1344:8015
  - TR:136:1065
- Vibrational Characteristics of Linear Space Frames, with Charles E. Jones, ST10:Oct 69:2077:6821
  - TR:136:297

Whinston, Andrew B.
- See David E. Pingry, EE6:Dec 73:909:10208
- See David E. Pingry, EE1:Feb 74:61:10322

Whipple, R. Lawrence, Jr.
- New Look To ASCE Professional Staff: Whipple, CE:Oct 73:57
- Whipple Joins Expanding Professional Staff, CE:July 73:75

Whipple, William, Jr.
- Aeration System for Large Navigable Rivers, with Shaw L. Yu, SA6:Dec 71:883:8601
  - Dsc: Albert G. Holler, Jr., SA4:Aug 72:678:9077
  - Clo: EE1:Feb 73:91:9521
  - TR:138:135
- Approaches and Viewpoints of State Natural Water Resources Agencies, UWRM:71:100
- Dsc, California Water: A Study in Resource Management, CE:Nov 72:115
- Corps of Engineers Plans Regional Water Quality Program, CE:Mar 72:37
  - Dsc: William J. Bauer, CE:Aug 72:46; Sam G. Baladi, CE:Oct 72:66
  - TR:138:118
- Instream Aeration: An Alternative to Advanced Waste Treatment, CE:Sept 70:78
  - TR:136:750
- Instream Aerators for Polluted Rivers, with Francis P. Coughlan, Jr. and Shaw L. Yu, SA5:Oct 70: 1153:7631
  - Dsc: David H. Stoltenberg, SA2:Apr 71:245:8013
  - Clo: SA6:Dec 71:937:8555
  - TR:137:353
- Optimum Investment in Structural Flood Control, HY6:Nov 68:1507:6238
  - Dsc: L. Douglas James, HY2:Mar 69:7771:6433; Robert L. McFall, HY2:Mar 69:773:6433; Asit K. Biswas and Beni P. Sengal, HY5:Sept 69: 1763:6784
  - Clo: HY3:Mar 70:843:7113
  - TR:135:247
- Water Pollution Control Institutions, PP1:Jan 72:13: 8667
  - TR:138:215
- Dsc, HY3:May 68:837:5920, of "Environmental Aspects of River Basin Planning", HY6:Nov 67: 323:5605
- Dsc, SA5:June 70:841:6802, of "Conceptual Problems in Water Quality Economics", SA5:Oct 68:841: 6149
- Dsc, SA6:Dec 72:1050:9393, of "Optimal Water Quality Management for Houston Ship Channel", SA1:Feb 72:195:8715
- Dsc, EE5:Oct 74:1192:10836, of "Critique of Water Pollution Control Act", EE1:Feb 74:141:10326

Whisler, Frank D.
- Analysis of Infiltration into Draining Porous Media, with Keith K. Watson, IR4:Dec 69:481:6946
  - Errata: IR4:Dec 70:493:7712
  - TR:136:215

Whitaker, Richard E.
- Saint Louis Bay Bridge, CO2:Oct 70:149:7588
  - TR:136:1111

White, E. James
- Quality Control Criteria, Summary Report, with Robert L'Hermite and I. Gramolin, TB:73:Ib-9-901

White, Edward E.
- Foundations, State-of-Art Report 4, TB:73:Ia-4-715

White, Frank T.
- Dsc, CE:Mar 70:42, on Black People Call for ASCE Social Action, CE:Dec 69:73

White, George C.
- Dsc, SA4:Aug 72:666:9077, of "Bromine and Bromamine Disinfection Chemistry", SA5:Oct 71: 617:8425
- Dsc, EE5:Oct 74:1188:10836, of "Sewage Chlorination Versus Toxicity -- A Dilemma?", EE6: Dec 73:761:10190
- See Harvey F. Collins, NSCD:71:137
- See Harvey F. Collins, SA5:Oct 71:549:8430
- See Harvey F. Collins, SA4:Aug 72:664:9077

White, Gilbert
- Defending the Environment: A Strategy for Citizen Action, by Joseph L. Sax (Book Review), CE:Sept 71:20

White, Harold E.M.
- Memoir of, TR:137:1076

White, James K.
- Dsc, IR2:June 72:334:8926, of "Aqueducts for the Least Cost Conveyance of Water", IR3:Sept 71: 483:8381

White, K. Preston
- System Dynamics Approach to Urban Planning, with Jarir S. Dajani and Donald Wright, UP1:Mar 74:43: 10388

White, Larry A.
- See Boris S. Browzin, SM12:Dec 72:1404:9394

White, Merit P.
- Position Paper on Civil Engineering Education, by the ASCE Committee on Engineering Education, PP1:July 69:29:6671
  - Dsc: John D. Bristor, PP1:Sept 70:153:7549
  - TR:136:1102

White, Nikolas F.
- Ground-Water Quality Study, with Daniel K. Sunada, IR3:Sept 74:277:10813
- Physics of Desaturation in Porous Materials, with Harold R. Duke, Daniel K. Sunada and Arthur T. Corey, IR2:June 70:165:7376
  - TR:136:878

White, Richard N.
- Experimental Studies of Membrane Shear Transfer, with Myle J. Holley, Jr., ST8:Aug 72:1835:9145
  - Dsc: C. N. Krishnaswamy, Bryan A. Erler and Adolf Walser, ST7:July 73:1664:9826
  - Clo: ST4:Apr 74:816:10442
  - TR:139:110
- The ME(Civil) Program at Cornell University - Part II - Program Implementation, with Vaughn C. Behn, Gerard F. Fox and Arthur Adams, CEE:Feb 74:1-787
- Tubular Sections in Highway Structures, HW2:Nov 68:161:6227
  - TR:136:706
- See James M. Corum, ST2:Feb 69:229:6419
- See Harry G. Harris, ST7:July 72:1633:9074

White, Robert E.
- A National Landmark, CEWAU:74:32
- Dsc, CE:Jan 72:48, on Sloped Sheeting, CE:Feb 71: 48
- Dsc, GT10:Oct 74:1167:10838, of "Tieback Wall Construction - Results and Controls", SM12:Dec 73:1135:10239

White, Robert M.
Helping Man To Use The Seas, CEO-II:70:11

White, Rossiter L.
Structural Design of Angeles Tunnel Surge Chamber, PO1:July 74:71:10644

White, Wayne A.
Educating technicians, CE:Nov 70:39
Dsc, CE:Nov 70:39, on Dsc, Training Technicians, CE:July 70:38

White, William A.
Status Report of Surveying and Mapping Division, SU2:Nov 71:267:8532
  Dsc: Gunther Greulich, SU2:Nov 72:237:9308
  TR:138:121
See Frank D. Masch, 12CEC:71:2031

White, William Rodney
Flat-Vee Weirs In Alluvial Channels, HY3:Mar 71:395:7989
  TR:137:234
See Peter Ackers, HY11:Nov 73:2041:10167

Whiteaker, Ray T.
See Abdel-Aziz I. Kashef, SM12:Dec 72:1429:9394

Whitehead, Carl F.
Ludington, Mich., Pumped Storage Project, CE:June 73:64
  Dsc: Robert H. Griffin, CE:Oct 73:26
  TR:139:247
Dsc, CE:Sept 71:93, on Northfield Mountain Pumped Storage Project, CE:May 71:53

Whitehead, Walter R.
See Raphael G. Kazmann, IR4:Dec 74:413:10991

Whiteley, Virgil
Conceptual Problems in Water Quality Economics, with Bill B. Dendy, SA5:Oct 68:841:6149
  Dsc: William Whipple, Jr., SA5:June 70:841:6802; David C. Major, SA5:Oct 69:951:6802
  Errata: SA3:June 70:841:7313
  TR:136:651

Whitesides, George W.
Dsc, SM2:Mar 69:641:6429, of " Guide Specifications for Chemical Grouts", SM2:Mar 68:345:5830

Whitlatch, Elbert E., Jr.
See Michael B. Godfrey, CEE:Feb 74:1-713

Whitman, David
Dangers of Parallel-Bar Sewer Grates to Bicyclists, BP73:Dec 73:383

Whitman, John
Cost Estimating Model for Rural Interstate Highways, with Frederick J. Wegmann, TE3:Aug 72:531:9138
  Dsc: Norman W.F. Fisher, TE3:Aug 73:683:9896
  Clo: TE2:May 74:526:10508
  TR:139:57

Whitman, Robert V.
Case Study of Dynamic Soil-Structure Interaction, with John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175
  TR:139:504
Dynamic Soil-Structure Interaction, TB:73:Ib-6-310
Hydraulic Fills to Support Structural Loads, SM1:Jan 70:23:7009
  Dsc: Jacob Feld, SM4:July 70:1478:7385; Sergey Steuerman and William A. Flynn, SM6:Nov 70:2133:7643; Isaac W. Tarshansky, SM6:Nov 70:2135:7643
  Clo: SM6:June 71:925:8158
  TR:136:519
Hydraulic Fills to Support Structural Loads, PISST:71:169
  Dsc: Jacob Feld, PISST:71:194; Sergey Steuerman and William A. Flynn, PISST:71:196; Isaac W. Tarshansky, PISST:71:198
  Clo: PISST:71:201
Performance of Foundation for Altair Radar, with Dirk R. Casagrande, Kjell Karlsrud and Richard M. Simon, SM1:Jan 71:1:7809
  Dsc: Jacob Feld, SM10:Oct 71:1500:8410
  Clo: SM5:May 72:500:8860
  TR:137:268
Dsc, with Richard J. Holt and Vincent J. Murphy, SM2:Mar 69:656:6429, of "Vibration Modulus of Normally Consolidated Clay", SM2:Mar 68:353:5833
Dsc, CE:Aug 72:68, on Report on Conference on 1971 San Fernando, Ca., Earthquake, CE:May 72:58
See Frank E. Richart, Jr., SM6:Nov 67:143:5568
See Kaare Hoeg, SM2:Mar 68:431:5850
See David J. D'Appolonia, SM1:Jan 69:263:6366
See H. Bolton Seed, LS:70:103
See Robert L. Schiffman, SM2:Mar 70:649:7178
See H. Bolton Seed, SM8:Aug 72:787:9108
See C. Martin Duke, TB:73:Ib-6-255
See Jose M. Roesset, ST3:Mar 73:399:9603

Whitmore, George D.
Fifty Years in Surveying-Mapping-and the Future, SU1:Oct 69:143:6860
  TR:135:932

Whitney, Harold T.
Slides in Residual Soils From Shale and Limestone, with George F. Sowers and B. Roger Carter, 4PCSM:71:II139

Whitney, James M.
Analytical and Experimental Methods in Composite Mechanics, ST1:Jan 73:113:9477
  TR:139:196

Whitney, L. A.
See D. L. Hipkins, EFSE:Aug 74:159

Whittington, Richard B.
Siphons: Some Scale-Effects in Models, with Kamil H.M. Ali, HY1:Jan 72:45:8629
  Dsc: Fred W. Blaisdell and Kesavarao Yalamanchili, HY12:Dec 72:2236:9391; Fred W. Blaisdell and Clayton L. Anderson, HY12:Dec 72:2237:9391; Fred W. Blaisdell, HY12:Dec 72:2239:9391
  Errata: HY4:Apr 73:683:9637
  Clo: HY6:June 73:982:9760
  TR:139:14

Whittington, S. P.
Dsc, BMS:71:145, of "Full Scale Observation of the Behavior of Moored Ships", BMS:71:117
Dsc, BMS:71:266, of "Selection of Fenders", BMS:71:260

Whittle, George Patterson
Recent Advances in Determining Free Chlorine, NSCD:71:269

Whitton, Rex M.
R. M. Whitton Joins Ranks Of ASCE Honorary Members, CE:Oct 73:89

Wibbens, Russell P.
Dsc, CE:Sept 71:93, on Artic Research Laboratory, CE:May 71:69

Wiberg, Nils-Erik
Dsc, ST10:Oct 71:2612:8411, of "Efficient Reanalysis of Modified Structurei", ST1:Jan 71:377:7846

Wicker, Clarence F.
Economic Channels and Maneuvering Areas for Ships, WW3:Aug 71:443:8308
  TR:137:232

New Horizons in the Field of Tidal Hydraulics, HY1: Jan 69:147:6346
Dsc: Jan J. Leendertse, HY6:Nov 69:2175:6866
Clo: HY6:June 70:1350:7310
TR:135:224

Wickstrom, George C.
Integrated Measurement Framework for Transportation Planning, TE2:May 72:275:8910
TR:138:241

Widera, Otto E.
See Rene Amon, TN: EM5:Oct 71:1597:8412

Wiedner, Karl
See Jacob K. Aldersebaes, PO2:Mar 71:351:7957
See James A. Dunlap, PO2:Mar 71:407:7949

Wiegel, Robert L.
Water Waves Generated by Landslides in Reservoirs, with Edward K. Noda, Edward M. Kuba, Dennis M. Dee and Gordon F. Tornberg, WW2:May 70: 307:7279
Dsc: Joseph L. Hammack, Jr., WW2:May 71:417: 8086
Clo: WW1:Feb 72:72:8686
TR:137:52
See Nobuyuki Tamai, PO2:Oct 69:253:6847
See Kenneth Chen, 12CEC:71:1647
See Noboru Sakuma, CE13:72:III-2005
See Madan M. Das, WW1:Feb 72:49:8707
See Richard B. Dornhelm, PO1:June 72:29:8975

Wiendieck, Klaus W.
The Role of Ground Crawling Vehicles in the Ocean, with Dean R. Freitag, CEO-II:70:327

Wiersema, Harry
Dsc, PP4:Oct 73:539:10040, of "Nader's Raiders Versus California Water Project", PP1:Jan 73:39: 9490
Dsc, PP4:Oct 73:541:10040, of "The Public Role of Engineering: the California State Water Project", PP1:Jan 73:19:9492

Wierzbicki, Tomasz
Bounds on Large Dynamic Deformations of Structures, EM3:June 70:267:7344
Errata: EM2:Apr 71:585:8011
TR:136:835

Wiesel, Carl-Eric R.
Dsc, SM2:Feb 71:483:7866, of "In Situ Strength of Rolled and Hydraulic Fill", SM3:May 70:881:7273

Wiesinger, Frederick P.
Dsc, ST1:Jan 72:386:8623, of "Staggered Columns in Flat Plates", ST6:June 71:1791:8222

Wiesnet, Donald R.
See Newell T. Stiles, 12CEC:71:669

Wiggert, David C.
Transient Flow in Free-Surface, Pressurized Systems, HY1:Jan 72:11:8628
TR:138:87
Dsc, WW1:Feb 70:158:7049, of "Computer Model for a Lock Manifold System", WW2:May 69:149: 6553

Wiggert, James M.
See Dinshaw N. Contractor, HY5:May 71:762:8081

Wiggins, John H.
The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE:Aug 72:55
Dsc: Howard L. Metcalf, CE:Nov 72:49; Max W. Strauss, CE:Nov 72:49; Emilio Rosenblueth, CE:Jan 73:57; Otto W. Steinhardt, CE:Feb 73: 65; Otto W. Steinhardt, CE:Mar 73:48; Joseph P. Connolly, CE:Mar 73:51
TR:138:377
Toward a Coherent Natural Hazards Policy, CE:Apr 74:74

Wiggins, Richard L.
Analysis and Design of Tower Foundations, PO1: Mar 69:77:6469
Dsc: Frank C. Hartzell, Jr. and Cetin A. Okcuoglu, PO3:June 70:486:7312
Clo: PO1:Jan 71:222:7784
TR:13:23

Wikholm, Duane E.
See Moshe F. Rubinstein, ST2:Feb 68:363:5779

Wilbik, Josef
See Jan Brodka, TB:73:II-14-201

Wilbur, Lyman D.
The Development of Tropical Lands by Michael Nelson (Book Review), CE:Sept 74:44
Wilbur to Receive John Fritz Medal, CE:Oct 72:87

Wild, Edward Charles
Memoir of, TR:138:646

Wild, Philip A.
Northfield Mountain Underground Power Station, with David P. McKittrick, URC:72:287

Wild, William A.
Traffic Analysis for Airport Asphaltic Pavements, with Everett C. Carter, Jerome W. Hall and Matthew W. Witczak, TE4:Nov 74:873:10927

Wilde, Kenneth K.
International Challenge to Airports, TE3:Aug 70:269: 7455
TR:136:1195

Wilde, P.
Sediment Distribution and Its Relations to Circulation Patterns in Bolinas Bay California, with T. Yancey, 12CEC:71:1397

Wilder, Carl R.
Modular Systems Make Shore Protection Economical, with Earl R. Koller, CE:Oct 71:60
TR:137:622
Dsc, with Leonard T. Norling, SM4:July 70:1476: 7385, of "Mixing-in-Place Soil and Portland Cement", SM6:Nov 69:1357:6909
Dsc, WW4:Nov 70:863:7645, of "Bank Stabilization in Susquehanna River Basin", WW1:Feb 70:87:7061

Wilder, Dale G.
Dsc, SM1:Jan 73:148:9461, of "Subsurface Investigation for Design and Construction of Buildings: Part II", SM6:June 72:557:8944

Wilderer, Peter
Dsc, SA2:Apr 70:630:7190, of "Transfer of Oxygen in Aqueous Solutions", SA3:June 69:645:6639
Dsc, with Ludwig Hartmann, SA1:Feb 72:262:8682, of "Biokinetic Evaluation of BOD Concepts and Data", SA3:June 71:287:8184

Wildt, Roger H.
Repair of Steel Structures After Fire, TB:73:Ib-8-688

Wiley, Jack C.
Beams Subjected to a Follower Force Within the Span, with Richard E. Furkert, EM6:Dec 72:1353: 9441
Dsc: Karl K. Stevens, EM5:Oct 73:1099:10041
Clo: EM3:June 74:613:10565
TR:139:166

Wiley, Jay W., Jr.
Seismic Analysis and Design of the San Onofre Nuclear Generating Station, Units 2 and 3 Containment, with Kenneth M. Schechter, Don L. Price and P. W. Koss, EPCE:Aug 74:13

Wilhelm, Wilbur E., Jr.
Review of Car-Following Theory, with J. W. Schmidt, TE4:Nov 73:923:10165
TR:139:541

See Jason C. Yu, TE3:Aug 74:593:10717

Wilhelm, William J.
Effects of Creep and Shrinkage on Prestressed Concrete Columns, with Paul Zia, ST10:Oct 70:2103:7614
Dsc: Jostein Hellesland, ST6:June 71:1827:8159; Brij B. Goyal, ST7:July 71:2025:8225
Clo: ST3:Mar 72:765:8752
TR:137:197

Wilhoite, Gene M.
Design of Steel Transmission Pole Structures, ST12:Dec 74:2449:11009
Wind Recommendations for Transmission Towers, ST2:Feb 72:447:8723
TR:138:142
Dsc, PO1:Mar 69:148:6442, of "Electric Transmission Tower Design", PO1:May 68:1:5932

Wilhoyt, Ellis E., Jr.
Constructing Washington D.C.'s Metro, CE:Nov 74:74

Wilke, Ott C.
Theoretical Irrigation Tailwater Volumes, TN: IR3:Sept 73:415:9967

Wilkening, Rolland M.
Development of a Professional Construction Manager, CEE:Feb 74:1-367

Wilkes, P. F.
An Induced Failure at a Trial Embankment At King's Lynn, Norfolk, England, PES:72:I-29

Wilkes, W. J.
Standard Specifications for Highway Bridges - New Edition (Book Review), CE:July 70:111

Wilkins, J. K.
Dsc, SM2:Mar 70:767:7115, of "Tests on Cohesionless Materials for Rockfill Dams", SM1:Jan 69:313:6353

Wilkinson, David L.
Containing Oil Slicks in Flows of Finite Depth, CE13:72:III-2567
Dynamics of Contained Oil Slicks, HY6:June 72:1013:8950
Dsc: Cesar Farell, Subhash C. Jain and Oktay Guven, HY7:July 73:1167:9823
Clo: HY1:Jan 74:231:10251
TR:139:59
Free Surface Slopes at Controls in Channel Flow, HY8:Aug 74:1107:10753
Limitations to Length of Contained Oil Slicks, HY5:May 73:701:9711
Dsc: Subhash C. Jain, HY3:Mar 74:492:10379; W. Hall C. Maxwell, HY5:May 74:697:10505
Clo: HY12:Dec 74:1837:10974
TR:139:271
Dsc, HY4:Apr 71:602:8012, of "Stratification of Flow from Channel into Deep Lake", HY7:July 70:1417:7401
Dsc, WW1:Feb 72:122:8686, of "Collection of Oil Slicks", WW2:May 71:313:8122

Wilkinson, John F.
Dsc, HY4:July 69:1467:6641, of "Feasibility of Water Export", HY4:July 68:873:6024

Wilkinson, Thomas Lee
Analysis of Nailed Joints with Dissimilar Members, ST9:Sept 72:2005:9189
Errata: ST7:July 73:1669:9826
TR:139:121
Theoretical Lateral Resistance of Nailed Joints, ST5:May 71:1381:8121
TR:137:618

Wilks, Jack J.
See John M. Shields, SU1:July 72:67:9057

Will, Kenneth M.
See C. Philip Johnson, ST3:Mar 74:669:10432

Willard, Ernest C.
Memoir of, TR:135:1152

Willardson, Lyman S.
Attainable Irrigation Efficiencies, IR2:June 72:239:8957
TR:138:331
Entry Velocity Control Limits Drain Sedimentation, with L. Fouss, Ronald C. Reeve and Norman R. Fausey, IR4:Dec 68:455:6300
Dsc: Robert L. McFall, IR2:June 69:355:6581; Fred W. Blaisdell, IR4:Dec 69:630:6930; Kesavarao Yalamanchili, IR4:Dec 69:631:6930
Clo: IR3:Sept 70:339:7498
TR:135:891
See Lee F. Hermsmeier, IR3:Sept 70:265:7531
See Yu-Si Fok, IR3:Sept 71:449:8380
See Sterling J. Richards, IR4:Dec 73:457:10243

Willeke, Gene E.
Citizen Participation: Here to Stay, CE:Jan 74:78
Some Challenge Posed by Traditional Institutions and Practices, UWRM:71:61
Theory and Practice of Public Participation in Planning, IR1:Mar 74:75:10391

Willems, Nicholas
See Thomas M. Murray, ST12:Dec 71:2791:8574
See Bogdan O. Kuzmanovic, ST8:Aug 72:1697:9154

Willenbrock, Jack H.
Estimating Costs of Earthwork via Simulation, CO1:Mar 72:49:8763
TR:138:208
PennState Civil Engineering Construction Education, CEE:Feb 74:1-628
Utility Function Determination for Bidding Models, CO1:July 73:133:9843
TR:139:494

Willette, Willard R.
See Michael L. Lars~~on, PES:72~~:I-1341

William, Kaspar J.
Cellular Structures of Arbitrary Plan Geometry, with Alexander C. Scordelis, ST7:July 72:1377:9013
TR:138:315
See Alexander C. Scordelis, ST7:July 70:1622:7386

Williams, David J.A.
See David Duncan Mara, SA2:Apr 70:628:7190
See J. R. West, CE13:72:III-2153

Williams, David R., Jr.
Practical Applications of Codes in Construction of Pipelines, TE4:Nov 70:471:7657
TR:136:1256

Williams, Frederic W.
Rapid Reduction of Banded Stiffness Matrices, TN: ST5:May 73:967:9704
Dsc, ST5:May 71:1642:8084, of "Bounding of Frame Buckling Loads", ST8:Aug 70:1639:7452
Dsc, ST8:Aug 74:1724:10697, of "Solution of Linear Equations--State-of-the-Art", ST7:July 73:1507:9861
See William H. Wittrick, EM3:June 71:711:8177

Williams, Garnett P.
Manning Formula-A Misnomer, HY1:Jan 70:193:7036
Dsc: Chesley J. Posey, HY6:June 70:1373:7310; Rupchand M. Advani and Pashupati N. Modi, HY9:Sept 70:1910:7497; Praxitelis A. Argyropoulos, HY9:Sept 70:1912:7497; James C. I. Dodge, HY10:Oct 70:2139:7568
Clo: HY5:May 71:733:8081
TR:136:554
Dsc, HY6:June 73:989:9760, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295

Williams, George F.
- Dsc, EE3:June 74:768:10564, of "Surface Aerator Interactions", EE3:June 73:283:9797

Williams, George T.
- Dsc, Conservation and Engineers, CE:July 70:38

Williams, Glen N.
- Enhancement of Convergence of Pipe Network Solutions, HY7:July 73:1057:9852
  - Dsc: Carl O.A. Charles, HY4:Apr 74:619:10441; Trevor R. Fietz, HY8:Aug 74:1165:10696
  - TR:139:325

Williams, Gordon L.
- Dsc, Inching Towards Metrics, CE:Oct 74:28
- Upgrading Overseas Construction Contracts, CE:Dec 70:51
  - TR:136:1224
- See John M. Hayes, CE:Dec 71:63

Williams, Gordon R.
- Selecting the Appropriate Design Flood, IMROD: Sept 73:348
- Dsc, HY8:Aug 70:1727:7439, of "Investigation of Brahmaputra River", HY5:Sept 69:1687:6793
- Dsc, HY5:May 72:961:8859, of "Effect of Period of Record on Flood Prediction", HY11:Nov 71:1853: 8525
- Dsc, HY10:Oct 72:1892:9222, of "Technological Innovation and Hydraulic Engineering", HY5:May 72:751:8897
- Dsc, IR2:June 73:197:9761, of "Impact of Drought on New Jersey's Water Resources", IR3:Sept 72: 375:9205
- Dsc, HY1:Jan 74:247:10251, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Williams, H. S.
- Gravity and Gradients of Long Tunnels, SU1:Oct 69: 11:6815
  - TR:136:205

Williams, Harry E.
- Linear Theory of Thin Rings, EM5:Oct 72:1031:9232
  - TR:138:436

Williams, James H., Jr.
- Deformation in Multiple Tier Cylindrical Shells, TN: EM10:Oct 73:1114:10041

Williams, Jean O.
- Impacts of Rural to Urban Water Use, IR73:Aug 73: 85

Williams, Jimmy R.
- Sediment Yield Computed With Universal Equation, with Harold D. Berndt, HY12:Dec 72:2087:9426
  - Dsc: Ruh-Ming Li and Daryl B. Simons, HY11: Nov 73:2145:10109; Stafford C. Happ, HY1:Jan 74:233:10251
  - Clo: HY11:Nov 74:1719:10898
  - TR:139:143

Williams, Kingsley G.
- Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, with Thomas H. Bell, ISSF:Aug 72:699

Williams, Merlin C.
- Responsibility in Weather Modification Operation, with Richard A. Schleusener, IR1:Mar 70:61:7171
  - TR:136.721
- Status of Weather Modification in Watershed Management, IR4:Dec 71:585:8608
  - Clo: IR4:Dec 72:606:9392
  - TR:137:968
- Weather Modification as a Watershed Management Tool, IR1:Mar 69:15:6434
  - Clo: IR1:Mar 70:94:7114
  - TR:136:758

Williams, Michael D.
- Prediction of Power Plant Emission Impacts, with Eric G. Walther, EPCE:Aug 74:601

Williams, Paul G.
- See Hugh Tottenham, EM3:June 70:277:7347

Williams, Philip B.
- Initiation of Ripples by Artificial Disturbances, with Patrick H. Kemp, HY6:June 72:1057:8952
  - TR:138:328
- Initiation of Ripples on Flat Sediment Beds, with Patrick H. Kemp, HY4:Apr 71:505:8042
  - Clo: HY6:June 72:1078:8925
  - TR:137:683

Williams, Theodore T.
- See Lee Robinson, HY10:Oct 72:1773:9294
- See Donald W. Boyd, HYB:Aug 73:269

Williamson, Albert N.
- Interpretation of Multispectral Remote Sensor Data, SU2:Nov 74:143:10948

Williamson, H. M.
- Dumbarton Bridge Renewal, with T. L. Fuller, CE: July 69:44
  - TR:135:237

Williamson, James C.
- See Hal K. Puckett, TE1:Feb 74:255:10330

Williamson, James V.
- Antilon Lake Pumped Storage Project, EPCE:Aug 74:439
- Combining Flow in Branches and Wyes, HYB:Aug 73:215
- Dividing Flow in Branches and Wyes, with Thomas J. Rhone, HY5:May 73:747:9729
  - Errata: HY4:Apr 74:617:10441
  - TR:139:276

Williamson, Robert A.
- Stability Study of Guyed Tower Under Ice Loads, ST12:Dec 73:2391:10242
  - TR:139:536

Willis, Byron H.
- See John C. Goodrich, UT73:May 73:253

Willis, D. H.
- See W. A. Price, 12CEC:71:995
- See W. A. Price, CE13:72:II-1321
- See W. A. Price, CE13:72:II-1401

Willis, Joe C.
- Laboratory Study of Transport of Fine Sand, with Neil L. Coleman and Wilbert M. Ellis, HY3:Mar 72:489:8765
  - Dsc: Anton A. Kalinske, HY11:Nov 72:2049: 9305; Krishnamurthy Gopalakrishnan and John F. Kennedy, HY2:Feb 73:378:9523
  - Clo: HY2:Feb 74:317:10305
  - TR:139:30
- Dsc, HY6:Nov 69:2185:6866, of "Definitive Computations of Sand Discharge in Rivers", HY1: Jan 69:225:6350
- Dsc, HY7:July 71:1149:8223, of "Indeterminate Hydraulics of Alluvial Channels", HY11:Nov 70: 2309:7696

Willis, Maynard J.
- Planning Concrete Dam Construction Control Surveys, SU1:July 72:27:9045
  - TR:138:255
- Survey Control for Concrete Dam Construction, SU2: Sept 68:169:6099
  - TR:135:751

Willis, William F.
- Rehabilitation of Wilson Dam Generating Units, with J. E. Kirkland, PO2:Oct 69:321:6861
  - TR:136:266

Willmot, J. G.
See J. J. Deans, EPCE:Aug 74:47

Willson, John E.
See Michael K. McCarter, RM14:73:223

Willson, Richard J.
Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, IR4:Dec 71:601:8613
Dsc: Basil R. Streeten, IR2:June 72:339:8926
Clo: IR4:Dec 72:609:9392
TR:138:76
Dsc, with Chester W. Jones, IR4:Dec 68:531:6261, of "Sealing Sands with Waterborne Bentonite", IR4: Dec 67:25:5640

Willson, Warrack G.
See John L. Cox, EE3:June 74:717:10579

Wilmot, Sydney
Memoir of, TR:137:1077

Wilmotte, Raymond M.
See Robert F. Baker, 1970, 152 pp.

Wilson, Alfred Warren
See Keith L. Murphy, EE5:Oct 74:1105:10865

Wilson, Anthony J.
Direct Design of Taut Cables under Uniform Loading, with Robert J. Wheen, ST3:Mar 74:565: 10427

Wilson, Basil W.
Dynamics of Ship Anchor-Lines in Waves and Currents, with Donald H. Garbaccio, WW4:Nov 64:449:6888
Dsc: Edmond B. Pugsley, HY3:Aug 70:749:7443; R. M. Langer, WW4:Nov 70:859:7645
Clo: WW2:May 71:401:8086
TR:136:275
Elastic Characteristics of Mooring Lines, BMS:71:80
Full Scale Observation of the Behavior of Moored Ships, BMS:71:117
Dsc: S. P. Whittington, BMS:71:145; T. K. Hsiegh, BMS:71:145; Alf Torum, BMS:71:146
Clo: Basil W. Wilson, BMS:71:151
References to Literature on Mooring and Berthing of Ships Mainly Published between 1965 and 1970, BMS:71:288
Seiches and Other Causes of the Motion of Ships Already Moored, BMS:71:1
Spectrum Analysis of Ocean Wave Records, with Subrata K. Chakrabarti and Robert H. Snider, WAVES:Sept 74:87
Supplement List of Needs in Research on Problems of Berthing and Mooring Ships, BMS:71:286
Surge in the Southeast Basin, Long Beach Harbor, Calif., with James A. Hendrickson and Yuan Jen, CE13:72:III-2617
Tsunami-Responses Of San Pedro Bay And Shelf, CEO-II:70:1099
Tsunami-Responses of San Pedro Bay and Shelf, Calif., WW2:May 71:239:8107
Dsc: Fredric Raichlen, WW1:Feb 72:104:8686
Clo: WW4:Nov 72:9310
TR:137:944
Ways to Improve Berthing Operations, BMS:71:268
Dsc, BMS:71:207, of "The Added Mass of a Ship in Longitudinal Oscillation", BMS:71:174
Dsc, WW2:May 71:408:8086, of "Harbor Study for San Nicholas Bay, Peru", WW2:May 70:251:7271

Wilson, Carl D.
See Eugene I. Chaiken, CE:May 73:49

Wilson, David Gordon
Pallet System for Integrating and Automating Urban Transportation, UTI:71:81
Pallet Systems for Integrating Urban Transportation, TE2:May 72:225:8900
TR:138:212

Wilson, Edward H.
Boundary Layer Effects on Hydraulic Jump Location, with Andrew A. Turner, HY7:July 72:1127:9007
Dsc: Franz Valentin, HY7:July 73:1170:9823; Palepu V. Rao, HY7:July 73:1172:9823
Clo: HY2:Feb 74:320:10305
TR:139:61
Dsc, HY8:Aug 70:1761:7439, of "Limit Slope in Uniform Computations", HY1:Jan 70:95:7011
Dsc, HY12:Dec 72:2226:9391, of "Characteristics of Flow Weirs of Finite Crest Width", HY11:Nov 71: 1807:8515
Dsc, HY12:Dec 72:2232:9391, of "Hydraulic Jump Assisted by Cross-Jet", HY12:Dec 71:2037:8614
Dsc, HY4:Apr 73:698:9637, of "Effects of Inflow Condition on Hydraulic Jump", HY8:Aug 72:1367: 9088

Wilson, Edward L.
See David W. Murray, EM1:Feb 69:143:6398
See Ranbir S. Sandhu, EM3:June 69:641:6615
See Peter G. Smith, EC5:70:289
See Peter G. Smith, ST1:Jan 71:191:7825
See Jamshid Ghaboussi, EM4:Aug 72:947:9152
See Klaus-Jurgen Bathe, EM6:Dec 72:1471:9433
See Klaus-Jurgen Bathe, EM3:June 73:467:9782
See Guy Lefebvre, SM7:July 73:495:9857
See Jamshid Ghaboussi, SM10:Oct 73:833:10095
See Jamshid Ghaboussi, SM10:Oct 73:849:10053

Wilson, Edward N.
Influence Lines for Beams on Elastic Supports, TN: ST6:June 74:1325:10596

Wilson, Eric M.
See G. V. Eckenfelder, CE:May 73:45

Wilson, Frank M.
Dsc, with Philip E. Richardson, PO1:May 68:108: 5921, of "Proposed Third Power Plant at Grand Coulee Dam", PO1:Mar 67:15:5148

Wilson, G. Jeyaraj
Dsc, with James Kirkhope, EM5:Oct 71:1570:8406, of " Finite Element Bending Analysis of Reissner Plates", EM6:Dec 70:967:7760

Wilson, G. R.
See William R. DeKeyser, CE:Mar 74:64

Wilson, J. R.
A Discussion of Some Measured Wave Data, with W. F. Baird, CE13:72:I-113

Wilson, James F.
Cross-Velocity Behavior in Parallel Channel Flow, EM4:Aug 69:921:6736
Dsc: Bruce W. Hunt, EM1:Feb 70:104:7044
Clo: EM5:Oct 70:789:7574
TR:136:208

Wilson, James H.
See Raymond Lundgren, SM2:Mar 68:407:5844

Wilson, John L., III
See Michael A. Collins, HY9:Sept 72:1701:9215
See Lynn W. Gelhar, HY12:Dec 72:2135:9439

Wilson, John S.
See Anthony J. Tozzoli, CE:Jan 69:34

Wilson, Kenneth C.
Parameters for Bed Slip Point in Two-Phase Flow, HY10:Oct 71:1665:8426
TR:137:804
Slip Points of Beds in Solid-Liquid Pipeline Flow, HY1:Jan 70:1:6992
Errata: HY2:Dec 70:2615:7711
TR:136:347

Surge Studies for Portage Mountain Tailrace System, PO1:Mar 69:1:6432
TR:136:649

Wilson, Kenneth V.
Dsc, HY6:Nov 69:2190:6866, of "Effect of Urban Development on Flood Discharges", HY1:Jan 69: 287:6355

Wilson, Kenneth W.
Scale Effects in Rubble-Mound Breakwaters, with Ralph H. Cross, III, CE13:72:III-1873

Wilson, L. G.
Pollution Potential of a Sanitary Landfill Near Tucson, with Gary G. Small, HYB:Aug 73:427

Wilson, Lawrence C.
Licensing of Pedicycle Operators, BP73:Dec 73:571

Wilson, Murray Alderson
Memoir of, TR:135:1154

Wilson, Robert C.H.
Dsc, EE2:Apr 73:162:9635, of "Environmental Planning and Ecological Possibilities", SA3:June 72: 579:8994

Wilson, Stanley D.
Instrumentation Applied to Slope Stability Problems, with David E. Hilts, TE3:Aug 72:563:9101
TR:138:316
Observational Data on Ground Movements Related to Slope Instability, SM5:Sept 70:1519:7508
Errata: SM7:July 71:1033:8224
TR:136:1049
Performance of Muddy Run Embankment, with David Marano, SM4:July 68:859:6026
Dsc: Mircea S. Vasilescu, SM3:May 69:919:6525
Clo: SM1:Jan 70:300:6989
TR:135:837
Dsc, 4PCSM:72:III195, of "Effectiveness of Cutoffs in Earth Foundations and Abutments of Dams", 4PCSM:71:I237
See Hugh Q. Golder, SM3:May 70:801:7292
See Arthur Casagrande, PES:72:I-551

Wilson, Thomas E.
See Mu-Hao Wang, EE3:June 74:629:10574

Wilson, Thomas T., Jr.
Manning n for Cast-in-Place Concrete Pipe, with Edib Kirdar, HY3:May 69:995:6575
Dsc: Edward Silberman, HY1:Jan 70:298:6988; Bent A. Christensen, HY3:Mar 70:850:7113; Ramaswamy Sakthivadivel, S. Seetharaman and M. V. Somasundaram, HY3:Mar 70:855:7113; Robert G. Cox, HY7:July 70:1612:7384
Clo: HY2:Feb 71:336:7863
TR:136:132
Use of Runoff Forecasting in Reservoir Operations, with Edib Kirdar, IR3:Sept 70:299:7541
Dsc: Robert L. McFall, IR1:Mar 71:218:7941
Clo: IR4:Dec 71:645:8553
TR:137:104

Wilson, Wallace Estill
Dsc, SM6:June 71:936:8158, of "Lateral Load Tests on Piles-Arkansas River Project", SM5:Sept 70: 1583:7510
Dsc, SM8:Aug 71:1127:8270, of "Stability of Cellular Cofferdams Against Vertical Shear", SM6:Nov 70: 1853:7654
Dsc, SM2:Feb 72:225:8683, of "Behavior of Laterally Loaded Piles: 1-Single Piles", SM5:May 71:711: 8092
Dsc, SM2:Feb 72:240:8683, of "Breakout Resistance of Objects Embedded in Ocean Bottom", SM9:Sept 71:1183:8372

Wilson, William E.
Hydrogeology of Florida's Largest Citrus Grove, IRS: Sept 72:293

Wilson, Woodrow W.
Model Form of "Instructions To Bidders," by the Committee on Contract Administration of the Construction Division, CO1:Mar 74:27:10407
Model Form of 'Notice to Bidders', CO3:Sept 74: 373:10818

Win, Maung M.
See James N. Siddall, ST6:June 73:1043:9772

Winant, C. D.
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, ISSF8:Aug 72:709

Windisch, Stephen J.
Technique for Study of Granular Materials, with Michel Soulie, SM4:July 70:1113:7389
Dsc: T. Ramamurthy, SM4:Apr 71:686:8014
Clo: SM11:Nov 71:1595:8484
TR:136:1310

Windom, Herbert L.
Environmental Aspects of Dredging in Estuaries, WW4:Nov 72:475:9342
TR:138:529
Mercury Distribution in Estuarine-Nearshore Environment, WW2:May 73:257:9753
TR:139:329

Windsor, James S.
Computer Model for a Lock Manifold System, with Herman Vallee, WW2:May 69:149:6553
Dsc: David C. Wiggert, WW1:Feb 70:158:7049
Clo: WW3:Aug 70:728:7443
TR:136:68
Model For Farm Irrigation in Humid Areas, IR3:Sept 71:369:8355
Dsc: Charles D. Busch and Eugene W. Rochester, Jr., IR2:June 72:330:8926
Clo: IR3:Sept 72:503:9157
TR:137:687
Multireservoir Optimization Model, with Ven Te Chow, HY10:Oct 72:1827:9304
TR:138:532
Dsc, 1970, of "Surge Problems in Canals with High-Lift Locks", WW2:Nov 69:467:6898
Dsc, HY5:May 74:700:10505, of "Search Technique for Project Sequencing", HY5:May 73:833:9732

Wineland, Jeff Andrew
Memoir of, TR:138:647

Winfrey, Robley
See Wm. Campbell Graeub, TE2:May 72:263:8906

Wing, Ho
See Heinz Stefan, PO2:Oct 72:253:9241

Winger, Parley V.
See James R. Barton, HYB:Aug 73:1

Winiarski, Lawrence D.
Model of Natural Draft Cooling Tower Performance, with Bruce A. Tichenor, SA4:Aug 70:927:7461
Dsc: B. P. Bagish, ST6:June 71:1810:8159
TR:136:1028

Winikka, Carl C.
Orthophotoquads for Arizona Land-Use Mapping and Planning, with Samuel A. Morse, Jr., SU1:May 74: 1:10525

Winn, Earl Franklin, Jr.
Memoir of, TR:136:1375

Winn, W. Paul
Cavitation Parameters for Outlet Valves, with David E. Johnson, HY12:Dec 70:2519:7771
  Dsc: Eric Miller, HY9:Sept 71:1544:8345; J. Paul Tullis, HY9:Sept 71:1547:8345; Ramaswamy Sakthivadivel, S. Seetharaman and G. Padmanabhan, HY10:Oct 71:1767:8407; Louis A. Darvas, HY10:Oct 71:1769:8407
  Clo: HY6:June 72:1073:8924
  TR:137:559

Winokur, Arnold
Lateral Loads in Asymmetric Multistory Structures, with Jacob Gluck, ST3:Mar 68:645:5842
  Dsc: Iain A. MacLeod, ST1:Jan 69:124:6325
  Clo: ST9:Sept 69:1980:6755
  TR:135:443

Winslow, David E.
See William H. Espey, Jr., HY2:Feb 74:279:10352

Winslow, Reed H.
Evaluation of New Systems For Urban Transportation, with Jerry L. Pfeffer, TE4:Nov 72:757:9354
  TR:138:518

Winter, Donald F.
A Similarity Solution for Circulation in Stratified Fjords, ISSF:Aug 72:717

Winter, George
G. Winter Joins Ranks Of ASCE Honorary Members, CE:Oct 73:90
Stability, Theme Report, TB:73:II-16-409
See Teoman B. Pekoz, ST5:May 69:941:6571
See Walter M. Ruiz, ST6:June 69:1189:6601
See Asfandiar K. Dhalla, ST10:Oct 71:2549:8442
See Peter Gergely, ST10:Oct 72:2165:9236
See Dwight A. Sangrey, CEE:Feb 74:1-779
See Asfandiar K. Dhalla, ST2:Feb 74:427:10365
See Asfandiar K. Dhalla, ST2:Feb 74:445:10366
See Samuel J. Errera, ST6:June 74:1279:10618
See John T. DeWolf, ST10:Oct 74:2017:10875

Winters, Leon
Dsc, CE:Apr 73:81, on Anti-Technology--The New Myth, CE:Jan 72:68

Wirsching, Paul H.
Distribution Of Response To Simulated Earthquakes, with James T.P. Yao, TN: EM4:Aug 70:515:7444
Modal Response of Structures, with James T.P. Yao, TN: ST4:Apr 70:879:7191
Monte Carlo Study of Seismic Structural Safety, with James T. P. Yao, ST5:May 71:1497:8118
  Dsc: Emilio Rosenblueth, ST1:Jan 72:369:8623
  Clo: ST7:July 72:1669:9003
  TR:137:613
Motion-Reducing Device Under Seimic Excitation, with James T.P. Yao, TN: EM1:Feb 72:285:8687
Probabilistic Design for Random Fatigue Loads, with Edward B. Haugen, EM6:Dec 73:1165:10223
  TR:139:525
Random Behavior of Columns, with James T. P. Yao, EM3:June 71:605:8183
  TR:137:201
Statistical Methods in Structural Fatigue, with James T. P. Yao, ST6:June 70:1201:7377
  TR:136:966

Wirtanen, Theodore H.
Laser Multilateration, SU1:Oct 69:81:6843
  TR:136:529

Wise, Carlton T.
Novel Construction Concept for Raw-Water Intake, with Doyle D. Gillespie, CE:June 71:43
  TR:137:410

Wisely, F. E.
St. Louis Powerplant Burns City Refuse, with G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30
  TR:138:518
St. Louis Power Plant to Burn City Refuse, with G. Wayne Sutterfield and David L. Klumb, CE:Jan 71:56
  Dsc: Bela Vitez, CE:May 71:59
  TR:137:53

Wisely, William H.
The Aftermath of Article Three, CE:Jan 72:37
  TR:138:1
The Alternative to Unionism, CE:Feb 71:43
  Dsc: Christopher P. Kittides, CE:May 71:59; Stanley I. Hart, CE:May 71:78; Edward A. Bryant, CE:May 71:78
  TR:137:91
Architects and Highways, CE:Feb 69:37
  Dsc: Wm. Campbell Graeub, Gerald L. Baker and H. F. Sommerschield, CE:May 69:39; Archibald C. Rogers, CE:July 69:43
  TR:135:71
Article Three and the Department of Justice, CE:Sept 71:47
  Dsc: Lawrence E. Goodman, CE:Feb 72:63
  TR:137:542
ASCE Responsibility for the Economic Welfare of its Members, CE:Apr 69:35
  Dsc: Kent Dirlam, CE:June 69:46; Raymond E. Rose and Frederick March, CE:July 69:47; Kenneth M. Turner, CE:Feb 70:47
  TR:135:549
The Civil Engineer and the Conservationist, CE:Feb 70:37
  Dsc: David K. Witheford, CE:May 70:43; James D. Harpster, CE:May 70:43; Frederick J. Clarke, CE:May 70:43; Ellis L. Armstrong, CE:July 70:38; Fred G. Evenden, CE:July 70:38; CE:Sept 70:72
  TR:136:154
The Civil Engineer in the Concept Team, CE:Dec 71:37
  TR:137:749
Dues and Do's, CE:Nov 69:33
  TR:135:665
Engineering and Public Service - A Renaissance, PP1:Jan 73:1:9486
  Dsc: David A. Bella, PP4:Oct 73:536:10040
  TR:139:71
Engineering-Architecture Interprofessional Practice, CE:Apr 71:37
  Dsc: Architects vs. Engineers, Shu-Tien Li, CE:Sept 71:72; Architects vs. Engineers, William J. Heiser, CE:Sept 71:87; Architects vs. Engineers, A. T. Waidelich, CE:Sept 71:93
  TR:137:257
Engineers and the Public Press, CE:Dec 69:31
  Dsc: Richard A. Smith, CE:Apr 70:74; Eugene Chesson, Jr., CE:Apr 70:74; Tien H. Wu, CE:July 70:54
  TR:135:1020
A Game Plan for Interprofessional Collaboration in Engineering and Architecture, CE:Oct 71:41
  Dsc: John D. Annand, CE:Mar 72:39
  TR:137:607
A Hard Look at Civil Engineering Salaries, CE:May 70:33
  Dsc: John N. Woelfl, CE:Oct 70:44; Richard J. Piasecki, CE:Oct 70:51; ASCE, Engineers, and Unions, James L. Dotson, CE:Jan 71:71
  TR:136:370
Land Use Planning and the Slum, CE:June 69:37
  TR:135:568
Mobilization of Technological Brainpower, CE:Oct 69:37
  TR:135:937
People, Ecology and the Aswan High Dam, CE:Feb 72:37
  Dsc: James K. Carr, CE:May 72:65; A. Dale Swisher, CE:July 72:65
  TR:138:67

Politics and Water Pollution, CE:Oct 70:41
Dsc: C. L. Shimek, CE:Jan 71:71; Politics and Water Pollution, Thomas R. Camp, CE:Feb 71: 46; Eugene T. Jensen, CE:May 71:43
Population and People, CE:Dec 70:27
Dsc: Duane L. Cronk, Edmund S. Muskie, Robert Taft, Jr., Peter C. Kohnke and Victor H. Weidmann, CE:Apr 71:40; Eugene H. Harlow, CE:Apr 71:41; Paul J. Costic, III, CE:Apr 71: 41; Harvey E. Jobson and Harold B. Gotaas, CE:Apr 71:41; Robert L. McFall, Victor L. Hauser and Lawrence P. Kolb, CE:Apr 71:41; Graham Purcell, CE:Apr 71:41; James Abourezk, CE:Apr 71:4; Wilson V. Binger, CE: Apr 71:41; R. O. Sylvester, Frank E. Stratton and David H. Howells, CE:Apr 71:41; Peter G. Koltnow, CE:Apr 71
Professional Input to Engineering Education, CE:Aug 71:27
Dsc: Bruce M. Davidson, CE:Feb 72:39; Loring K. Himelright, CE:Feb 72:39; Morrough P. O'Brien, CE:Feb 72:39; Earnest Boyce, CE:Feb 72:42; Felix A. Wallace, CE:Feb 72:46
TR:137:486
Professionalism and Education, CE:Aug 69:27
Dsc: John M. Hayes, CE:Mar 70:71
TR:135:654
The Role of the Civil Engineer in Statewide Health Planning, PP4:Oct 72:669:9284
TR:138:592
Social Responsibilities of ASCE, CE:Aug 70:45
TR:136:610
Some Reflections at Retirement Time, CE:Apr 72:45
TR:138:174
The Status Of The Associate Member In ASCE, CE: Apr 70:41
TR:136:319
Thanks For Your Confidence, CE:Mar 70:35
TR:136:217
Tributes to Wisely, CE:May 72:90
The Urban Growth Syndrome, PP3:July 72:323:9027
TR:138:358
W. H. Wisely Joins Ranks Of ASCE Honorary Members, CE:Oct 73:90
William H. Wisely Retires as ASCE Executive Director, CE:Apr 72:66
Wisely receives medal, CE:Nov 72:79
Wisely Takes University Post, CE:July 72:86
A Word With the Executive Director About....The Civil Engineer and the Conservationist, CE:Feb 70: 37
A Word With The Executive Director About. . . The Quality of Personal Success, CE:June 71:37
Dsc: John M. Hayes, Carey H. Brown, Alfred C. Maevis, George L. Jackson and Gordon L. Williams, CE:Dec 71:63
TR:137:394
Dsc, PWS:Nov 72:34, of "The Engineer and the Crisis of the Cities", PWS:Nov 72:19
See Stephens W. Nunnally, CEE:Feb 74:1-696

Wiseman, Gdalyah
Flexible Pavement Evaluation Using Hertz Theory, TE3:Aug 73:449:9921
TR:139:366
See Amos Komornik, PES:72:I-1135

Wiss, John F.
Human Perception of Transient Vibrations, with Richard A. Parmelee, ST4:Apr 74:773:10495
A Study of Damage to a Residential Structure from Blast Vibrations, with Harry R. Nicholls, DRS:74, 80pp.
Vibrations During Construction Operations, CO3: Sept 74:239:10798
Wind Deflection of Tall Concrete Frame Buildings, with Otto E. Curth, ST7:July 70:1461:7413
Dsc: W. Alan Dalgliesh and Howard S. Ward, ST4:Apr 71:1370:8015; Alan G. Davenport and Michael Hogan, ST6:June 71:1807:815
TR:137:451

Wissa, Anwar E.Z.
Consolidation at Constant Rate of Strain, with John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
Dsc: Yoginder P. Vaid and Richard G. Campanella, SM5:May 72:508:8860; William E. Kelly, SM5:May 72:510:8860; William F. Brumund and Gordon W. Callender, Jr., SM8: Aug 72:830:9078; Peter M. Byrne, SM9:Sept 72:963:9158
Clo: SM7:July 73:561:9825
TR:139:5
Pore Pressure in Saturated Stiff Soils, SM4:July 69: 1063:6670
TR:135:10
See Raymond J. Krizek, GT12:Dec 74:1275:11030

Witczak, Matthew W.
See William A. Wild, TE4:Nov 74:873:10927

Witheford, David K.
Dsc, CE:May 70:43, on The Civil Engineer and the Conservationist, CE:Feb 70:37

Witherow, Jack L.
See Marion R. Scalf, SA5:Oct 69:817:6817

Witherspoon, Paul A.
Seepage from Recharge and Landfill Ditches, with T. N. Narasimhan, IR73:Aug 73:39
See Shlomo P. Neuman, EM2:Apr 71:359:8023
See James K. Mitchell, SM4:Apr 73:307:9678

Witte, John E.
Safety in Construction—The Contractor's Viewpoint, TN: CO3:Sept 74:497:10773

Wittenberg, Hartmut
Dsc, HY1:Jan 74:242:10251, of "Unit-Response Method of Open-Channel Flow Routing", HY1:Jan 73:179:9499

Witteveen, J.
Beam-to-Column Connections in Non-Sway Frames, with C. T.J. Bakker, TB:73:II-15-386
A Probabilistic Approach Toward Integrated Fire Engineering Design, TB:73:Ib-8-728

Witteveen, Norman D.
Recommended Design Procedure for VASI-2 Systems, with Michael L. Borta, TE3:Aug 74:553: 10721

Wittke, Walter
Dsc, SM1:Jan 69:419:6324, of "Rock Fracture Spacings, Openings, and Porosities", SM1:Jan 68: 73:5736

Wittrick, William H.
Initial Buckling of Channels in Compression, with Frederic W. Williams, EM3:June 71:711:8177
Dsc: Wai K. Tso and Ahmed A. Ghobarah, EM1: Feb 72:277:8680; Kothapalli Ramaiah Venkataramaiah and John Roorda, EM2:Apr 72: 476:8798
Clo: EM6:Dec 72:1595:9390
TR:137:992

Witzel, Stanley S.
See Neal E. Minshall, SA2:Apr 70:513:7238

Woelfl, John N.
Dsc, CE:Oct 70:44, on A Hard Look at Civil Engineering Salaries, CE:May 70:33

Woerner, J.
See James N. Luthin, IR1:Mar 69:117:6446

Woestenenk, A. J.
See K. d'Angremond, 12CEC:71:1601

Wofford, John G.
Participation Planning for Boston Metro-Area Transportation, CE:Apr 73:78
TR:139:186

Wohl, Martin
Assessing the Prospects of Current Transit Proposals, UTI:71:43
Current Mass-Transit Proposals: Answer to Our Commuter Problem?, CE:Dec 71:68
Dsc: David M. Weiss, CE:Mar 72:45
TR:137:825
An Uncommon View of the Ground Transportation Problem, TE1:Feb 69:143:6417
Dsc: Johannes W. Kurz, TE4:Nov 69:707:6868; Wolfgang S. Homburger, TE1:Feb 70:121:7048

Wolanski, Eric. J.
Dsc, HY7:July 73:1198:9823, of "Dispersion From Pit in Uniform Seepage", HY1:Jan 73:13:9474

Wolchuk, Roman
"Inquiry into the Basis of Design and Method of Erection of Steel Box-Girder Bridges" by Merrison Committee (Book Review), CE:Feb 74:26
Long-Span Steel Deck Railroad Bridge, with J. C. Bridgefarmer, CE:Apr 70:71
TR:136:286
Structural Steel Designers' Handbook, edited by Frederic S. Merritt (Book Review), CE:Nov 72:14
Dsc, with Ronald M. Mayrbaurl, ST12:Dec 74:2525:10977, of "Commentary on Orthotropic-Deck Bridge Specifications by the Task Committee on Orthotropic Plate Bridges of the Committee on Metals of the Structural Division", ST1:Jan 74:109:10273

Wolf, John P.
Post-Buckled Strength of Large Space-Truss, TN: ST:July 73:1708:9828

Wolf, Joseph A., Jr.
Natural Frequencies of Circular Arches, ST9:Sept 71:2337:8393
Dsc: Adnan B. Sabir, ST5:May 72:1208:8861
TR:137:1028

Wolf, Paul R.
Modified Methods in Numerical Radial Triangulation, with Lloyd T. Bartlett, SU1:Sept 73:121:10028
TR:139:512
See James D. Gruendler, SU1:Apr 70:1:7195

Wolfe, Charles G.
Seismic Safety Study of Henshaw Dam, IMROD:Sept 73:871

Wolfe, James E.
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, TE4:Nov 72:837:9327
TR:138:462

Wolfe, Timothy A.
New Staff Members For Technical Activities: T. A. Wolfe, CE:Aug 73:69

Wolford, Donovan S.
Book Review: Cold Formed Steel Structures, CE:Nov 73:28
Steel Highway Accessory Structures, ST7:July 71:1991:8255
TR:137:702

Wolfskill, L. Anthony
Dsc, 4PCSM:72:III223, of "Accuracy of Field Deformation Measurements", 4PCSM:71:I313
See T. William Lambe, SM3:May 70:817:7307
See T. William Lambe, PES:72:I-1403
See Charles H. Dowding, TN: GT5:May 74:567:10510

Wolfson, James B.
Graphic Analysis of Roadway Runoff, CE:June 71:64
TR:137:428

Wolka, Kevin
See David Brenchley, CE:Mar 73:83

Wolla, M. L.
See Chan F. Lam, HY2:Feb 72:335:8729
See Chan F. Lam, HY3:Mar 72:447:8782

Wolman, Abel
The Civil Engineers Role in Environmental Development, CE:Oct 70:42

Wolofsky, Leib
Dsc, HY11:Nov 73:2158:10109, of "Reevaluating Spillway Adequacy of Existing Dams", HY2:Feb 73:337:9571

Won, Tae Sang
A Study On Construction Of Floating Breakwaters Or Floating Platforms, CEO-II:70:943

Won, William D.
Persistence of Virus and Bacteria in Seawater, with Harold Ross, EE3:June 73:205:9781
TR:139:141

Wong, Andrew K.C.
Artificial Intelligence Continuum Mechanics, with George Bugliarello, EM6:Dec 70:1239:7779
Dsc: D. K. Rao, EM5:Oct 71:1583:8406
TR:137:859
A Parallel Processing Approach To Bridge Planning, with Tung Au, EC5:70:155
Parallel Processing Approach to Bridge Planning, with Tung Au, ST1:Jan 71:115:7822
TR:137:288
See Tung Au, PP4:Oct 72:693:9286

Wong, Ho-Kwan
See Joseph M. Sussman, TE1:Feb 74:13:10335

Wong, Hong Yau
Impedance Effects On Unsaturated Flow In A Non-Swelling Soil, with Raymond N. Yong, TN: SM8:Aug 72:837:9085
Dsc, GT5:May 74:556:10504, of "Compaction Grouting", SM8:Aug 73:589:9908

Wong, Ing H.
See T. William Lambe, SM3:May 70:817:7307

Wong, Jo-Yung
Dsc, SM9:Sept 72:977:9158, of "Stress Field Under Slipping Rigid Wheel", SM1:Jan 72:13:8625

Wong, Kam W.
Book Review: The Surveillant Science: Remote Sensing Of The Environment, CE:Nov 73:28
Computer Programs for Strip Aerotriangulation, SU1:Oct 69:71:6822
TR:135:913
Computer Program System for Aerotriangulation, with G. Elphingstone, SU2:Nov 72:219:9322
TR:138:470
Surveying and Mapping from Orbital Platforms, SU1:May 74:15:10529
Television Display of Topographic Maps, with Nick G. Yacoumelos, SU2:Nov 71:273:8531
TR:137:930

Wong, Ralph F.
Flood-Control Facilities for Unique Flood Problems, with Alfonso Robles, Jr., WW1:Feb 71:185:7894
TR:137:204

Wong, Yau-Cheung
Face Wrinkling of Sandwich Plates and Cylinders, with Peter George Hoadley, EM4:Aug 71:1071:8281
TR:137:625

Woo, Dah-Cheng
- Dsc, with Dah-Cheng Woo, IR4:Dec 69:636:6930, of "Rational 'Rational' Method of Storm Drainage Design", IR4:Dec 68:465:6301
- Dsc, HY9:Sept 70:1899:7497, of "Energy Dissipators for Large Culverts", HY6:Nov 69:1941:6893
- Dsc, HY3:Mar 73:549:9580, of "Conceptual Hydrologic Models for Urbanizing Basins", HY7: July 72:1205:9024
- See Dah-Cheng Woo, IR4:Dec 69:636:6930

Woo, Wai Ling
- See Donald R. Drew, WW3:Aug 72:393:9131

Wood, Brian R.
- Dsc, with Peter F. Adams, ST1:Jan 73:209:9462, of "Approximate Determination of Frame Critical Loads", ST3:Mar 72:695:8771

Wood, Don J.
- Analog Analysis of Water Distribution Networks, TE2:May 71:281:8112
  - TR:137:343
- Effect of Pipeline Junctions on Water Hammer Surges, with Shen P'eng Chao, TE3:Aug 71:441: 8296
  - TR:137:797
- Hydraulic Network Analysis Using Linear Theory, with Carl O.A. Charles, HY7:July 72:1157:9031
  - Dsc: Thawat Watanatada, HY4:Apr 73:693:9637; Trevor R. Fietz, HY5:May 73:855:9689; Elisha Kally, HY5:May 73:857:9689
  - Clo: HY11:Nov 73:2129:10109
  - TR:139:71
- Influence of Line Motion on Waterhammer Pressures, HY3:May 69:941:6572
  - Errata: HY6:June 70:1355:7310
  - TR:135:53
- Pressure Surge Attenuation Utilizing an Air Chamber, HY5:May 70:1143:7267
  - Dsc: John S. Gladwell and Cheng-nan Lin, HY1: Jan 71:207:7783; Harald R. Graze, HY3:Mar 71:455:7940
  - Clo: HY11:Nov 71:1892:8483
  - TR:136:1299
- Water-Hammer Charts for Various Types of Valves, with S. E. Jones, HY1:Jan 73:167:9500
  - Dsc: Hans J. Leutheusser, HY1:Jan 74:244:10251; B. B. Sharp, HY2:Feb 74:323:10305
  - Errata: HY8:Aug 74:1162:10696
  - Clo: HY9:Sept 74:1272:10770
  - TR:139:194
- See Carl E. Burkhead, SA3:June 69:593:6631

Wood, Donald F.
- Waterfront Renewal in Metropolitan Areas, UP4:Dec 67:199:5673
  - TR:135:362

Wood, Eric
- See John C. Schaake, Jr., IR3:Sept 73:409:9962

Wood, Harold I.
- Memoir of, TR:139:579

Wood, Ian R.
- Flow of Layered Fluid Over Broad Crested Weir, with K. K. Lai, HY1:Jan 72:87:8649
  - TR:138:108
- See Trevor R. Fietz, HY6:Nov 67:1:5549
- See Gee Tsang, EM6:Dec 68:1547:6321
- See Robert J. Keller, HY4:Apr 74:553:10501

Wood, Jack
- See Bob Beaver, CE:Mar 73:62

Wood, Randall H.
- Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, TB:73:II-15-293

Wood, Walter J.
- Los Angeles County Flood Control System and the Early 1969 Storms, CE:Jan 70:58
  - Errata: CE:July 70:57
  - TR:136:61

Wood, William G.
- Dsc, EM4:Aug 71:1293:8266, of "Impact of Spheres on Ice", EM5:Oct 70:641:7607

Wood, William L.
- Wave Analysis System for the Breaker Zone, WAVES:Sept 74:774

Woodhead, H. Roger
- Torsional Strength of Prestressed Concrete Beams, with Arthur E. McMullen, ST5:May 74:881:10545
  - Dsc: Himat T. Solanki, ST12:Dec 74:2529:10977

Woodhead, Ronald W.
- See Edward L. Murphree, TE3:Aug 71:389:8283
- See Daniel W. Halpin, CO2:June 74:141:10600

Woodman, John P.
- See Peter B. Attewell, RM13:72:665

Woodman, Longino A.
- Goals Established for ASCE Activities by the Committee on Society Objectives, Planning and Organization, CE:Feb 74:39

Woodring, Richard E.
- Influence Surfaces for Continuous Plates, with Chester D. Seiss, ST1:Jan 68:211:5755
  - Dsc: Gyan C. Nayak, ST6:June 69:1372:6583
  - TR:135:324

Woodruff, Glenn B.
- Memoir of, TR:139:580

Woodruff, Richard S.
- Pumped Storage: State-of-the-Art, PO3:July 71:675: 8262
  - TR:137:710

Woods, Donald L.
- The Driver and the Road, TE4:Nov 71:609:8513
  - Dsc: Joseph Barnett, TE3:Aug 72:735:9080
  - TR:137:981
- Turn Penalty Effects on Minimum Time Paths, with J. T. Brudeseth and Vergil G. Stover, TE4:Nov 69: 659:6896
  - TR:136:1238

Woods, Philip C.
- See Gerald T. Orlob, IR2:June 67:49:5280

Woods, Richard D.
- Holography—A New Tool for Soil Dynamics, with Norman E. Barnett and Rolf Sagesser, GT11:Nov 74:1231:10949
- Screening of Surface Waves in Soils, PISST:71:407
- See Kenneth H. Stokoe, II, SM5:May 72:443:8904
- See Donald G. Anderson, GT11:Nov 74:1254:10897

Woods, Stanley W.
- Dsc, CE:June 70:46, on Civil Engineering Today: A Profession in Crisis-Part II, CE:Feb 70:51
- Dsc, ST4:Apr 73:797:9640, of "Historical Development of Cable-Stayed Bridges", ST9:Sept 72:2079:9201

Woodson, Riley D.
- Logical Approaches to Power Supply and Environment, PO2:Oct 72:181:9257
  - Dsc: Roy F. Bessey, PO1:May 73:261:9690
  - TR:138:525

Woodward, Edwin Carleton
- Memoir of, TR:137:1078

Woodward, James H.
- Vibration of Heavy Industrial Slabs, with Claudie K. McDonald, TN: ST8:Aug 73:1797:9911

Woodward, Jerry W.
See George Marinos, WW2:May 68:189:5945

Woodward, Louis A.
Survey and Property Corner Monumentation, SU2: Oct 67:75:5513
  Dsc: Curtis M. Brown, SU2:Sept 68:286:6091
  Clo: SU1:Oct 69:174:6804
  TR:135:407

Woodward, Richard J.
See James K. Mitchell, TN: SM10:Oct 73:905:10042

Woodyer, K. D.
Dsc, HY3:Mar 70:849:7113, of "Formation of Flood Plain Lands", HY3:May 69:981:6574

Woolcock, Scott T.
Post-Buckling Behavior of Determinate Beams, with Nicholas S. Trahair, EM2:Apr 74:151:10471
See Nicholas S. Trahair, EM1:Feb 73:85:9548

Wooldridge, Carolyn B.
See Richard E. Speece, SA3:June 69:563:6621

Woolhiser, David A.
Dsc, IR4:Dec 70:498:7712, of "Surface Irrigation Using the Kinematic-Wave MethoS", IR1:Mar 70: 39:7134
See Hai Yain Chang, WW1:Feb 71:155:7869

Woolley, Ruth M.
See Richard A. Mitchell, EM4:Aug 74:687:10716

Wooton, Frank T., Jr.
See Hyman J. Fine, IR4:Dec 69:603:6930

Workman, George H.
Deficiencies Noted in Open Literature — Structural, PITO:74:61

Workman, Herman E.
Planning Profitable Irrigation Investments in Missouri, OIDS:72:491

Worrall, Richard D.
See George L. Peterson, UP1:Apr 69:1:6501

Worth, Edward G.
See Warren L. Schroeder, PES:72:I-379

Wortley, C. Allen
Continuing the Enchancement of Mankind's Welfare: A Civil Engineer's Responsibility for Professional Development and Maintenance of Competence, CEE:Feb 74:1-808
Current Status of Continuing Education, CEE:Feb 74:2-66
Engineering Licensure Innovations, EI3:July 74:213: 10642
Lake Superior Yachting Marinas Resist Ravages of Ice, CE:Feb 72:47
  TR:138:79
Should Renewal of PE License be Automatic?, CE: Jan 74:69
Dsc, PP4:Oct 73:535:10040, of "Guideline: Employer—Engineer Relationship", PP4:Oct 72: 523:9279
See John P. Klus, CE:Jan 72:49

Wortman, Robert H.
See Edward L. Murphree, TE3:Aug 71:389:8283

Wosser, Thomas D.
Tiebacks for Bank of America Building Foundation Wall, with Robert D. Darragh, CE:Mar 70:65
  TR:136:295

Wright, Albert M.
Dsc, with Michael C. Kavanaugh, SA2:Apr 70:620: 7190, of "Theory of Sand Filtration", SA3:June 69: 399:6593

Wright, David Ellis
Nonlinear Flow Through Granular Media, HY3:July 68:851:6018
  Dsc: Bruce W. Hunt, HY:Jan 69:570:6323
  TR:135:917
Dsc, HY5:Sept 69:1746:6784, of "Pressure Fluctuations in Reattaching Flow", HY6:Nov 68: 1383:6212
Dsc, HY4:Apr 70:1047:7189, of "Hydraulic Properties of Small Unlined Rock Tunnels", HY4: July 69:1181:6672
Dsc, HY4:Apr 70:1061:7189, of " Hydraulic Design of Unlined Rock Tunnels", HY4:July 69:1235:6679
Dsc, PO1:Jan 71:260:7784, of " Diversion at Portage Mountain Project", PO3:June 70:349:7346

Wright, Donald
See K. Preston White, UP1:Mar 74:43:10388

Wright, E. V.
Unique Methods Solve Cofferdam Construction, CE: Nov 71:37
  Errata: E. M. Wilson, CE:Apr 72:62
  TR:137:661

Wright, E. Whitman
Analysis of Unbraced Multistory Steel Rigid Frames, with Edwin H. Gaylord, ST5:May 68:1143:5944
  Dsc: Adel Helmy Salem, ST2:Feb 69:298:6373
  Clo: ST11:Nov 69:2517:6867
  TR:135:616
Unbraced Multistory Steel Frames with Wind Load, ST1:Jan 72:185:8633
  TR:138:78
Dsc, with Edwin H. Gaylord, ST8:Aug 70:1824:7442, of "Inelastic Analysis of Multistory Multibay Frames", ST11:Nov 69:2477:6922

Wright, James F.
River Basin Management, An Interstate Approach, WW3:Aug 68:287:6058
  TR:135:830

Wright, James H.
The Environmental Challenge--Values in Conflict, PP1:Oct 71:17:8471
  Dsc: Edward A. Abdun-Nur, PP2:Apr 72:293: 8818
  TR:137:854

Wright, James L.
Never A Greater Need, CE:Apr 71:81
Peak Water Requirements of Crops in Southern Idaho, with Marvin E. Jensen, IR2:June 72:193: 8940
  TR:138:236

Wright, Joseph P.
See John McCormick, ST3:Mar 70:729:7116

Wright, Kenneth R.
Dsc, with Elmer L. Claycomb, HY6:Nov 69:2196: 6866, of "Storm Drainage Practices of Thirty-two Cities", HY1:Jan 69:383:6365
Dsc, IR1:Mar 72:168:8750, of "Reduction of Urban Runoff Peak Flows by Ponding", IR3:Sept 71:469: 8351
Dsc, PP4:Oct 72:727:9224, of "Ethical and Social Responsibility in the Planning and Design of Engineering Projects", PP1:Jan 72:33:8657

Wright, Lynn D.
Hydrography of South Pass, Mississippi River, WW3: Aug 71:491:8290
  TR:137:780

Wright, Paul H.
Safety Aspects of Bicycle Transportation, with A. Trent Germano and R. Gary Hicks, BP73:Dec 73: 368

Wright, Paul J.
Lime Slurry Pressure Injection Tames Expansive Clays, CE:Oct 73:42
Dsc: D. Earl Jones, Jr., CE:Dec 73:32
TR:139:449

Wright, Richard N.
Constraint Processing In Design, with Leroy T. Boyer and John W. Melin, EC5:70:801
Constraint Processing in Design, with LeRoy T. Boyer and John W. Melin, ST1:Jan 71:481:7856
TR:137:876
Interaction of Bents with Box Girders, TN: ST6:June 70:1265:7315
Matrix Structural Analysis, by John L. Meek (Book Review), CE:Jan 72:16
Survey of Fire and Live Loads, TB:73:Ib-5-128
See William C. Gustafson, ST4:Apr 68:919:5890
See Sana R. Abdel-Samad, ST10:Oct 68:2231:6153
See Felix Y. Yokel, TB:73:III-26-949

Wright, Robert R.
Linear-Momentum Flux to Overbank Sections, with Marion R. Carstens, HY9:Sept 70:1781:7517
Dsc: Chesley J. Posey, HY5:May 71:752:8081; Gurbachan P. Malhotra, HY7:July 71:1139:8223
Clo: HY2:Feb 72:386:8681
TR:137:484

Wright, Roy L.
See Donald E. Campbell, PL2:July 67:71:5353

Wright, Stephen G.
Accuracy Equilibrium Slope Stability Analyses, with Fred H. Kulhawy, SM10:Oct 73:783:10097
Dsc: Daniel Resendiz, GT8:Aug 74:1969:10695
TR:139:466
Analysis of Waco Dam Slide, with James M. Duncan, SM9:Sept 72:869:9210
Dsc: Prakas Kumar De, SM4:Apr 73:363:9639; Ralph R.W. Beene, SM7:July 73:573:9825; Kolinjuvadi S. Sankaran and Ravikumar Bhaskaran, SM8:Aug 73:635:9892
TR:139:139

Wright, Steven J.
See John A. Roberson, HYB:Aug 73:63

Wronkiewicz, John H.
See Richard A. Parmelee, ST10:Oct 71:2503:8437

Wroth, C. P.
An Induced Failure at a Trial Embankment: Part II Finite Element Computations, with B. Simpson, PES:72:I-65
Dsc, PES:73:III-231, of "Design and Performance of Deep Foundations", PES:73:II-111

Wroth, C. Peter
The Development of a Special Instrument for the In Situ Measurement of the Strength and Stiffness of Soils, with John M.O. Hughes, EFSE:Aug 74:295
Dsc, EFSE:Aug 74:670, of "Benefits of Tunnel Measurements", EFSE:Aug 74:366

Wruble, Wayne E.
Biological Denitrification and Phosphate Removal, with Charles C. Plummer and Mark J. Hammer, TN: EE5:Oct 74:1199:10855

Wu, Chian Min
Dsc, HY6:Nov 68:1568:6200, of "Hydraulics of Spatially Varied Pipe Flow", HY6:Nov 67:281:5599

Wu, Han-Chin
Dual Failure Criterion for Plain Concrete, EM6:Dec 74:1167:10996

Wu, I-pai
Graphic Relation of Intake Length-of-Run and Time, with A. Alvin Bishop, IR3:Sept 70:223:7506
Dsc: Delmar D. Fangmeier and David W. Fonken, IR3:Sept 71:532:8346
Clo: IR2:June 72:325:8926
TR:137:469
Hydraulics and Uniformity for Drip Irrigation, with H. M. Gitlin, IR2:June 73:157:9786
TR:139:340
Optimal Design of Furrow Length of Surface Irrigation, with Tung Liang, IR3:Sept 70:319:7543
Dsc: Soronadi Nnaji, IR2:June 71:340:8156
Clo: IR1:Mar 72:144:8750
TR:137:148
Optimal Irrigation Quantity and Frequency, with Tung Liang, IR1:Mar 72:117:8776
Errata: IR1:Mar 73:114:9581
TR:138:171
Recession Flow in Surface Irrigation, IR1:Mar 72:77:8764
Dsc: Pratap Singh and H. S. Chauhan, IR1:Mar 73:111:9581
Clo: IR4:Dec 73:513:10183
TR:139:12
See Soronadi Nnaji, IR1:Mar 73:15:9612

Wu, Jin
Anemometer Height in Froude Scaling of Wind Stress, WW1:Feb 71:131:7873
Dsc: Omar H. Shemdin and Ashish J. Mehta, WW1:Feb 72:97:8686
Clo: WW4:Nov 72:9310
TR:137:874
Physical Scales for Generation of Wind Waves, WW2:May 72:163:8879
Dsc: James B. Bole, WW2:May 73:288:9694
TR:138:281
Prediction of Near-Surface Drift Currents from Wind Velocity, HY9:Sept 73:1291:9995
TR:139:366

Wu, Spencer T.
See Zdenek P. Bazant, EM2:Apr 73:367:9645
See Zdenek P. Bazant, EM3:June 74:575:10621
See Zdenek P. Bazant, EM6:Dec 74:1183:10995

Wu, Tien H.
Probabilistic Analysis of Seepage, with Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687
Dsc: William E. Kelly, GT3:Mar 74:373:10378
Clo: GT11:Nov 74:1252:10897
TR:139:307
Safety Analysis of Slopes, with Leland M. Kraft, Jr., SM2:Mar 70:609:7174
Dsc: Richard M. Wary, SM2:Feb 71:480:7866
Clo: SM10:Oct 71:1483:8410
TR:136:865
Seismic Safety of Earth Dams, with Leland M. Kraft, Jr., SM6:Nov 70:1987:7686
TR:137:196
Uncertainty, Safety, and Decision in Soil Engineering, GT3:Mar 74:329:10434
Dsc: Gregory B. Baecher, GT10:Oct 74:1170:10838
Dsc, CE:July 70:54, on Engineers and the Public Press, CE:Dec 69:31
Dsc, CE:Jan 72:51, on Four Freeway Fallacies, San Francisco Section, ASCE Highway Technical Division Task Force, CE:Mar 71:72
Dsc, PP2:Apr 72:291:8818, of "Annual Address", PP1:Oct 71:5:8466
See D. H. Timmerman, SM4:July 69:1097:6698

Wu, Yeun C.
Clarification of Book-Mill Effluent by Enzyme-Alum, EE3:June 74:541:10573

Wuellner, Larry
Bicycling Safety and Enforcement Programs - Why They Fail, BP73:Dec 73:565

Wunderlich, Walter O.
Effect of Intake Elevation and Operation on Water Temperature, with Rex A. Elder, HY6:Nov 69:2081:6917
  Dsc: Ronald E. Nece, HY7:July 70:1644:7384; Joel L. Caves, HY9:Sept 70:1901:7497
  Clo: HY4:Apr 71:580:8012
  TR:136:328
Universal Formula For Uniform Flow, CE:Jan 70:50
  Dsc: Edward Silberman, CE:Sept 70:60
Dsc, with Rex A. Elder, HY5:May 70:1207:7248, of "Selective Withdrawal from Density-Stratified Reservoirs", HY4:July 69:1369:6702

Wung, Shyr-Jen
See Anestis S. Veletsos, EM2:Apr 72:311:8806

Wyatt, T. A.
Design Developments - Europe, Africa, State-of-Art Report 5, TB:73:Ib-7-407

Wylie, E. Benjamin
Control of Transient Free-Surface Flow, HY1:Jan 69:347:6360
  Dsc: George V. Nielsen, HY1:Jan 70:278:6988
  Clo: HY7:July 70:1608:7384
  TR:135:990
Unsteady Free-Surface Flow Computations, HY11:Nov 70:2241:7683
  TR:136:1208
Dsc, HY2:Feb 71:380:7863, of "Resonance in Pressurized Piping Systems", HY9:Sept 70:1819:7525
See Michel Kaplan, PL3:Nov 67:59:5608
See Suresh Sangal, TE4:Nov 69:689:6868
See Victor L. Streeter, GT3:Mar 74:247:10410
See Constantine N. Papadakis, GT10:Oct 74:1091:10853

Wyngaard, Lee A.
See Joseph Anderson, PO2:Feb 71:335:7975

Wynhoven, Jacobus H.
Analysis of Three-Dimensional Structures, with Peter F. Adams, ST1:Jan 72:233:8643
  Dsc: Bernardo J. Deschapelles, ST10:Oct 72:2323:9227
  Clo: ST4:Apr 73:791:9640
  TR:138:109
Behavior of Structures Under Loads Causing Torsion, with Peter F. Adams, ST7:July 72:1361:9010
  Clo: ST10:Oct 73:2210:10039
  TR:139:77
Dsc, with Peter F. Adams, ST11:Nov 70:2538:7644, of "Lateral-Load Analysis of Asymmetric Multistory Structures", ST2:Feb 70:317:7089

Wyskida, Richard M.
See Paul E. Torgersen, CO2:Oct 68:127:6141

Yachnis, Michael
See William J. Bobisch, ST7:July 72:1465:9019

Yacoumelos, Nick G.
See Kam W. Wong, SU2:Nov 71:273:8531

Yagar, Sam
Analysis of Passenger Delays at Airport Terminals, TE4:Nov 73:909:10152
  Errata: TE4:Nov 74:1005:10901
  TR:139:516

Yagi, Shunsaku
See Hisashi Sumitomo, EE1:Feb 73:92:9521

Yalamanchili, Kesavarao
Dsc, HY1:Jan 69:547:6323, of "Profile of the Hydraulic Jump", HY3:May 68:663:5931
Dsc, IR4:Dec 69:631:6930, of " Entry Velocity Control Limits Drain Sedimentation", IR4:Dec 68:455:6300
See Fred W. Blaisdell, HY4:July 68:1168:6015
See Fred W. Blaisdell, HY12:Dec 72:2236:9391

Yale, Glenn A.
See George E. Hecker, HYB:Aug 73:335

Yalin, Mehmet Selim
Determination of Kennedy's Parameter j for Dunes, TN: HY8:Aug 73:1287:9910
Dimensional Analysis - Spurious Correlation, with J. William Kamphuis, 12CEC:71:625
On the Geometrically Similar Reproduction of Dunes in a Tidal Model with Movable Bed, CE13:72:II-1143

Yamada, Minoru
Effect of Cyclic Loading on Buildings, State-of-Art Report 1, TB:73:II-18-725
Ultimate Deformation of Reinforced Concrete, TB:73:III-22-467

Yamaguchi, Fumio
See Tonia Eemura, CEO-II:70:247

Yamaguchi, Masataka
See Yoshito Tsuchiya, 12CEC:71:523
See Yoshito Tsuchiya, CE13:72:I-555
See Yoshito Tsuchiya, WAVES:Sept 74:689

Yamamoto, Tokuo
Longitudinal Motions of Taut Moorings, with John H. Nath and Charles E. Smith, WW1:Feb 74:35:10321
Wave Forces on Cylinders Near a Plane Boundary, with John H. Nath and Larry S. Slotta, HYB:Aug 73:155
Wave Forces on Cylinders Near Plane Boundary, with John H. Nath and Larry S. Slotta, WW4:Nov 74:345:10944
Dsc, with John H. Nath and Larry S. Slotta, WW2:May 74:155:10509, of "Wave Forces on Submerged Objects of Symmetry", WW2:May 73:147:9698

Yanagida, Norio
See John Eric Edinger, HY2:Feb 72:412:8681

Yancey, T.
See P. Wilde, 12CEC:71:1397

Yanev, Peter I.
Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, with Roland O. Marsh, SDNPF:Dec 73:397

Yang, Cheng Y.
Extreme Wave Statistics for Delaware Coastal Waters, with Mehmet Aziz Tayfun and George Chia-Chu Hsiao, WAVES:Sept 74:352
Statistical Prediction of Hurricane Storm Surge, with A. M. Parisi and William S. Gaither, 12CEC:71:2011
See Richard H. Toland, EM3:June 71:791:8200
See Mehmet Aziz Tayfun, CE13:72:I-251
See Mehmet Aziz Tayfun, EM6:Dec 72:1606:9390
See Mehmet Aziz Tayfun, WAVES:Sept 74:125

Yang, Chih Ted
Incipient Motion and Sediment Transport, HY10:Oct 73:1679:10067
  Dsc: Muthusamy Krisnamurthy, HY5:May 74:714:10505; Subrata K. Chakrabarti, HY5:May 74:715:10505; Vadim Aleksandrovich Bazilevich, HY9:Sept 74:1285:10770; Arved J. Raudkivi, HY9:Sept 74:1286:10770
  TR:139:414
Longitudinal Dispersion of Bed-Material Particles, with William W. Sayre, HY7:July 71:907:8228
  Dsc: B. Mutlu Sumer, HY4:Apr 72:718:8799
  Clo: HY12:Dec 72:3209:9391
  TR:137:864
Stochastic Model For Sand Dispersion, with William W. Sayre, HY2:Feb 71:265:7892
  Errata: HY7:July 71:1161:8223
  Clo: HY1:Jan 72:275:8620
  TR:137:218

- Unit Stream Power and Sediment Transport, HY10: Oct 72:1805:9295
  - Dsc: Garnett P. Williams, HY6:June 73:989:9760; Thomas Maddock, Jr., HY7:July 73:1191:9823; Jade Dattatri, HY8:Aug 73:1282:9895; Louis M. Laushey, HY9:Sept 73:1642:9961; S. N. Sarkar, HY9:Sept 73:1645:9961; Hsieh W. Shen, HY1: Jan 74:233:10251
  - Clo: HY9:Sept 74:1269:10770
  - TR:139:119

Yang, Henry T.Y.
- Finite Element on Elastic Foundation, ST10:Oct 70: 2083:7604
  - Dsc: Abdul Q. Khan, Aftab A. Mufti and Philip J. Harris, ST5:May 71:1646:8084
  - Clo: ST12:Dec 71:2888:8557
  - TR:137:188

Yang, I-Min
- See Wilfred D. Iwan, EM6:Dec 71:1609:8576

Yang, Jann-Nan
- Maximum Dynamic Response and Proof Testing, with Ewald Heer, TN: EM4:Aug 71:1307:8273
- Numerical Fourier Transform in Random Vibration, with Masanobu Shinozuka, EM3:June 69:731:6629
  - Dsc: Ronald L. Racicot and Fred Moses, EM6: Dec 69:1454:6929
  - Clo: EM4:Aug 70:500:7438
  - TR:135:1085
- Statistics of Random Loading Relevant to Fatigue, EM3:June 74:469:10591
- See Masanobu Shinozuka, EM2:Apr 69:363:6499

Yang, Nai C.
- Interaction of Aircraft and Ground Structure, ST6: June 70:1119:7360
  - TR:136:938
- New Paving Concept for Newark Airport, CE:Sept 70:95
  - Dsc: Airport Pavements, Fred Bennett, CE:Jan 71:67
  - Clo: Airport Pavements, Nai C. Yang, CE:Jan 71: 67
  - TR:136:832
- Relaxation of Piles in Sand and Inorganic Silts, SM2: Mar 70:395:7123
  - Dsc: Sachinder N. Gupta, SM6:Nov 70:2144:7643
  - Clo: SM5:May 71:791:8083
  - TR:136:550

Yang, T. Y.
- High Order Rectangular Shallow Shell Finite Element, EM1:Feb 73:157:9519
  - TR:139:184

Yang, Tsung
- Dsc, HY6:Nov 69:2206:6866, of " Dispersion of Silt Particles in Open Channel Flow", HY3:May 69: 1009:6579

Yang, Yue-Chyou
- Airport Overpass is technical esthetic winner, with Kam-Shing Lo, CE:July 74:50
- Record Concrete Shell Roof Featured in Coliseum, CE:June 72:51
  - Dsc: Felix Kulka, CE:Oct 72:76
  - TR:138:275
- Dsc, WW3:Aug 72:423:9081, of "Ultimate Energy Design of Prestressed Concrete Fender Piling", WW4:Nov 71:647:8527

Yannitell, Dannial W.
- See J. Thomas Franques, HY3:Mar 74:379:10403

Yao, James T. P.
- Concept of Structural Control, ST7:July 72:1567:9048
  - TR:138:357
- Fatigue Reliability and Design, ST9:Sept 74:1827: 10782
- Formulation of Structural Reliability, with Hsiang-Yueh Yeh, ST12:Dec 69:2611:6939
  - TR:136:407
- Dsc, PP3:July 72:465:9001, of "Annual Address", PP1:Oct 71:5:8466
- Dsc, ST1:Jan 74:274:10253, of "Cumulative Fatigue Damage in Seismic Structures", ST5:May 73:923: 9749
- See Iyadurai Kasiraj, ST8:Aug 69:1673:6727
- See Paul H. Wirsching, TN: ST4:Apr 70:879:7191
- See Paul H. Wirsching, ST6:June 70:1201:7377
- See Paul H. Wirsching, TN: EM4:Aug 70:515:7444
- See Paul H. Wirsching, ST5:May 71:1497:8118
- See Paul H. Wirsching, EM3:June 71:605:8183
- See Jhy-Pyng Tang, ST1:Jan 72:125:8647
- See Paul H. Wirsching, TN: EM1:Feb 72:285:8687
- See Jhy-Pyng Tang, EM3:June 72:695:8986
- See Aybars Gurpinar, ST9:Sept 73:1875:9978

Yao, Kuan M.
- Critical Depth In Trapezoidal Channels, TN: HY12: Dec 70:2681:7716
- Design of High-Rate Settlers, EE5:Oct 73:621:10051
  - Dsc: Ross Gregory, EE3:June 74:782:10564; Madhav L. Tikhe, EE4:Aug 74:1043:10693; Thiruvenkatachari Viraraghavan, EE4:Aug 74: 1045:10693; A. George Gebauer, EE5:Oct 74: 1187:10836
  - TR:139:389
- Hydraulic Control for Flow Distribution, SA2:Apr 72:275:8808
  - Dsc: Hisashi Sumitomo and Shunsaku Yagi, EE1: Feb 73:92:9521; Ben Chie Yen, EE1:Feb 73:94: 9521
  - TR:138:271
- Mathematical Model for Rate Studies, SA4:Aug 72: 635:9146
  - Errata: EE3:June 73:387:9758
  - TR:139:364
- Nonuniform Flow in Flat Rectangular Channels, HY9:Sept 71:1343:8369
  - Errata: HY7:July 72:1334:9000
  - TR:137:761
- Sewer Line Design Based on Critical Shear Stress, EE2:Apr 74:507:10480
- Dsc, HY2:Mar 69:761:6433, of "Deposition of Suspended Particles in a Gravel Bed", HY5:Sept 68:1197:6102
- Dsc, SA5:Oct 69:973:6802, of "Prediction of Filter Performance", SA6:Dec 68:1043:6270
- Dsc, SA6:Dec 69:1189:6931, of "Reaeration Prediction in Natural Streams", SA1:Feb 69:65: 6407
- Dsc, HY8:Aug 70:1748:7439, of "Water Hammer Analysis", HY6:Nov 69:1959:6899
- Dsc, SA4:Aug 70:997:7441, of "Filtration Through a Trimedia Filter", SA3:June 68:521:6014
- Dsc, SA5:Oct 70:1289:7569, of "Role of Activated Sludge Final Settling Tanks", SA2:Apr 70:423:7231
- Dsc, SA2:Apr 71:242:8013, of "Aerator Performance in Natural Streams", SA5:Oct 70:1099:7601

Yarbrough, Leonard S.
- See Paul E. Torgersen, CO2:Oct 68:127:6141

Yarimci, Erol
- The Equivalent-Beam Approach in Tall Buildings Stability Analysis, TB:73:II-16-553
- Dsc, ST1:Jan 72:372:8623, of "Collapse Load Analysis Using Linear Programming", ST5:May 71: 1561:8127

Yarmowich, Edward P.
- See John A. Cunningham, CE:Nov 73:62

Yaron, Dan
- Estimation and Use of Water Production Functions in Crops, IR2:June 71:291:8208
  - TR:137:864

Yearke, Lawrence W.
- River Erosion Due to Channel Relocation, CE:Aug 71:39
  - Dsc: Herman J. Koloseus, CE:Feb 72:46
  - TR:137:504

Yeh, Chang-hua
Nonlinear Dynamic Analysis of Cooling Tower, PO1: June 72:49:8983
  TR:138:228
Stability and Dynamic Analyses of Cooling Tower, with William Y.J. Shieh, PO2:Nov 73:339:10141
  Dsc: John F. Abel and David P. . Billington, PO2:Dec 74:209:10976; Kenneth P. Burchert, PO2:Dec 74:211:10976
  Errata: PO1:July 74:136:10636
  TR:139:427

Yeh, Gour-Tsyh
Unified Formulation of Wall Turbulence, TN: HY12: Dec 72:2263:9397

Yeh, Hsiang-Yueh
See James T.P. Yao, ST12:Dec 69:2611:6939

Yeh, Sheng S.
See Shien T. Wang, ST6:June 74:1169:10595

Yeh, William Wen-Gong
Linear Programming and Channel Flow Identification, with Leonard Becker, HY11:Nov 73: 2013:10177
  TR:139:464
Nonsteady Flow to Surface Reservoir, HY3:Mar 70: 609:7137
  Dsc: Bruce W. Hunt, HY7:July 70:1663:7384; David T. Higgins, HY12:Dec 70:2642:7711
  Clo: HY9:Sept 71:1520:8345
  TR:136:958
Dsc, with Harry F. Blaney, IR1:Mar 69:237:6428, of "Predicting Return Flows From Irrigation", IR1: Mar 68:41:5838
Dsc, with Harry F. Blaney, IR1:Mar 69:246:6428, of "Consumptive Use Derived From Evaporation Pan Data", IR1:Mar 68:97:5863
See Harry F. Blaney, IR1:Mar 69:251:6428
See Harry F. Blaney, IR4:Dec 69:643:6930
See Arthur J. Askew, SA3:June 70:854:7313
See Ricardo C. Harboe, HY11:Nov 70:2297:7673
See William J. Trott, HY10:Oct 73:1865:10065
See Shin Chang, HY10:Oct 74:1343:10862
See Leonard Becker, HY10:Oct 74:1457:10883

Yen, Ben Chie
Dynamic Equations for Steady Spatially Varied Flow, with Harry G. Wenzel, Jr., HY3:Mar 70:801:7179
  Dsc: Andre Van der Beken, HY12:Dec 70:2661: 7711
  Clo: HY7:July 71:1137:8223
  TR:136:1053
Open-Channel Flow Equations Revisited, EM5:Oct 73:979:10073
  Dsc: J. D. Lin, EM5:Oct 74:1055:10837; Himat T. Solanki, EM5:Oct 74:1058:10837; Dinshaw N. Contractor, EM5:Oct 74:1059:10837
  TR:139:470
Resistance Coefficients for Steady Spatially Varied Flow, with Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
  TR:138:415
Risks in Hydrologic Design of Engineering Projects, HY4:Apr 70:959:7229
  Dsc: Emmett M. Laursen, HY9:Sept 70:1923: 7497; Triyugi Prasad, HY1:Jan 71:201:7783; Rezaul Karim Bhuiya, HY2:Feb 71:360:7863
  Clo: HY9:Sept 71:1525:8345
  TR:136:1096
Dsc, SA6:Dec 69:1203:6931, of "Oxygen Transfer from Falling Water Droplets", SA2:Apr 69:239: 6504
Dsc, HY2:Feb 71:368:7863, of "Real Time Routing of Flood Hydrographs in Storm Sewers", HY6:June 70:1247:7327
Dsc, HY4:Apr 71:622:8012, of "Sediment Transportation Mechanics: J. Transportation of Sediment in Pipes", HY7:July 70:1503:7423
Dsc, EE1:Feb 73:94:9521, of "Hydraulic Control for Flow Distribution", SA2:Apr 72:275:8808
See Chin-lien Yen, HY2:Feb 71:303:7928

Yen, Ben T.
See Manfred A. Hirt, ST7:July 71:1897:8238
See Joseph A. Corrado, ST7:July 73:1439:9854

Yen, Bing C.
Stability of Slopes Undergoing Creep Deformation, SM4:July 69:1075:6675
  Errata: SM4:July 70:1467:7385
  TR:135:1000
See Wen L. Wang, GT1:Jan 74:61:10300

Yen, Chin-lien
Bed Topography Effect on Flow in a Meander, HY1: Jan 70:57:7003
  Dsc: G. Desaulniers and Marcel Frenette, HY11: Nov 70:2380:7641
  Clo: HY6:June 71:859:8155
  TR:136:535
Effects of Viscous Sublayer on Dispersion, SA6:Dec 69:1105:6971
  Errata: SA3:June 71:377:8157
  TR:136:568
Shape Effects on Resistance in Flood-Plain Channels, with Donald E. Overton, HY1:Jan 73:219:9506
  Errata: HY11:Nov 73:2157:10109
  TR:139:197
Water Surface Configuration in Channel Bends, with Ben Chie Yen, HY2:Feb 71:303:7928
  Errata: HY5:May 72:953:8859
  TR:137:641
See Charles B. England, HY9:Sept 73:1630:9961

Yen, Yin-Chao
Impact of Spheres on Ice, with Fuat Odar and Lynwood R. Bracy, EM5:Oct 70:641:7607
  Dsc: William G. Wood, EM4:Aug 71:1293:8266
  Clo: EM2:Apr 72:473:8798
  TR:137:477

Yenney, Mark W.
See Thomas L. Theis, SA4:Aug 70:1004:7441

Yettram, Alan L.
Grid Framework Method for Thick Plates in Flexure, with Vincent McKinnon, TN: EM5:Oct 74:1073: 10856
Improved Framework Method for Plates in Extension, with Vincent McKinnon, TN: EM5:Oct 74:1067:10856
Space-Framework Method for Three Dimensional Solids, with Kenneth Robbins, EM6:Dec 67:21: 5633
  Dsc: Alexander Hrennikoff and A. Gantayat, EM4:Aug 68:998:6055
  Errata: EM1:Feb 69:311:6371
  Clo: EM6:Dec 69:1431:6929
  TR:135:373

Yeung, Yin Au
Solution Of Hydraulic Jump In Horizontal Channels By Graphs, TN: HY8:Aug 72:1465:9083

Yevjevich, Vujica
Systematization of Flood Control Measures, HY11: Nov 74:1537:10943
See J. Peter Jolly, HY7:July 74:1011:10677

Yiesghen, Ghebreiesus
See George R. Beetle, TE4:Nov 73:966:10110

Yilmaz, Mehmet
See Thomas H. Hanna, SM11:Nov 72:1187:9338

Yoder, Charles W.
Charles W. Yoder Becomes ASCE President, CE:Oct 73:87
Charles W. Yoder Nominated for President-Elect, CE:July 72:82
Civil Engineering Practice - Overview and Current Trends, CEE:Feb 74:2-11
Our Signal is Clear, CE:Sept 74:64
President's Inaugural Address: ASCE, an Action Profile, CE:Jan 74:66
  Dsc: G. Richard Bird, CE:June 74:20

Dsc, PWS:Nov 72:70, of "Recycling of Land Resources", PWS:Nov 72:57

Yokel, Felix Y.
Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, CE:Nov 73:79
Dsc: Ronald G. Nickson, CE:May 74:20
Errata: CE:Mar 74:24
Limit States Design, Summary Report, with Richard N. Wright, TB:73:III-26-949
Stability and Load Capacity of Members with No Tensile Strength, ST7:July 71:1913:8253
Dsc: Sven Sahlin, ST3:Mar 72:775:8752; Ganpat S. Pandit, ST4:Apr 72:940:8802; Wai F. Chen, ST5:May 72:1193:8861
Clo: ST4:Apr 73:788:9640
TR:137:976
Strength of Load-Bearing Masonry Walls, with Robert D. Dikkers, ST5:May 71:1593:8143
Dsc: Donald F. Meinheit, ST2:Feb 72:522:8684; John Springfield, ST2:Feb 72:523:8684
Clo: ST5:May 73:948:9693
TR:137:943

Yokoo, Y.
Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, with Hiroshi Akiyama, TB:73:II-17-619

Yong, Raymond N.
Yield and Failure of a Clay Under Triaxial Stresses, with Edward McKyes, SM1:Jan 71:159:7790
TR:137:237
See Hong Yau Wong, TN: SM8:Aug 72:837:9085
See Robert M. Quigley, TN: SM5:May 73:417:9703

Yonika, Donald A.
See Jason M. Cortell, UT73:May 73:143

Yoo, Chai Hong
Plastic Collapse of Horizontally Curved Bridge Girders, with Conrad P. Heins, Jr., ST4:Apr 72:899:8848
Dsc: Ganpat S. Pandit, ST4:Apr 73:791:9640
Clo: ST10:Oct 73:2209:10039
TR:139:46

Yoon, Yong Nam
Mechanics of Sheet Flow Under Simulated Rainfall, with Harry G. Wenzel, Jr., HY9:Sept 71:1367:8373
Dsc: Wilfried Brutsaert, HY2:Feb 72:406:8681; Ramachandra A. Rao, Ismail T. Kisisel and Jacques W. Delleur, HY6:June 72:1082:8925; Kanwar S. Satija, HY8:Aug 72:1456:9076
Clo: HY4:Apr 73:675:9637
TR:138:13
See Ben Chie Yen, HY8:Aug 72:1395:9107

York, Donald L.
Session II: Densification after Placement (Preloading), PISST:71:5
See Anthony J. Tozzoli, CE:Aug 73:56

Yorkdale, Alan H.
Computer Design of Engineered Brick Masonry, with Robert P. Anderson, ST5:May 72:1119:8916
Errata: ST10:Oct 72:2328:9227
TR:138:271
Masonry Building Systems, State-of-Art Report 9, TB:73:Ia-3-567

Yoshida, Hiroshi
Inelastic Lateral Buckling of Restrained Beams, with Yoshihiro Imoto, EM2:Apr 73:343:9666
Dsc: James W. Chai, EM5:Oct 73:1102:10041; Thepchai Poowannachaikul, Sritawat Kitipornchai and Nicholas S. Trahair, EM1:Feb 74:134:10303; David A. Nethercot, EM1:Feb 74:136:10303
Clo: EM5:Oct 74:1047:10837
TR:139:294
Lateral-Torsional Buckling of Bulit-Up Beam-Columns, with Susumu Nishida, TN: ST7:July 73:1713:9828
See Yuhshi Fukumoto, ST7:July 69:1443:6668

Yoshida, Noriaki
See John W. Fisher, ST9:Sept 70:1903:7534

Yoshida, Shizuo
See Masakazu Kashiwamura, ISSF:Aug 72:589

Yoshii, Toru
Anti-Fouling System By Electrolysis Of Sea Water, with Kenji Ueda and Tsutomu Horiguchi, CEO-II:70:1045

Yoshimi, Yoshiaki
Dsc, SM1:Jan 72:122:8622, of "Sand Liquefaction In Triaxial and Simple Shear Tests", SM4:Apr 71:639:8039

Yoshimura, Tomotsuka
See Yoshimi Goda, CE13:72:III-1723
See Yoshimi Goda, WW2:May 73:285:9694

Yoshimura, Torazo
See Itio Hirai, EM6:Dec 70:1081:7728

Yotsukura, Nobuhiro
Tracer Simulation of Soluble Waste Concentration, with Frederick A. Kilpatrick, EE4:Aug 73:499:9947
TR:139:315

Youd, T. Leslie
Borrego Mountain Earthquake of April 8, 1968, with Robert O. Castle, SM4:July 70:1201:7396
Errata: SM5:May 71:801:8083
TR:136:984
Compaction of Sands By Repeated Shear Straining, SM7:July 72:709:9063
TR:138:382
Densification and Shear of Sand During Vibration, SM3:May 70:863:7272
Errata: SM3:Mar 71:584:7943
TR:136:944
Dsc, with Terry N. Craven, SM12:Dec 72:1423:9394, of "Settlement of Dry Sands During Earthquakes", SM4:Apr 72:381:8844
See Robert O. Castle, PES:73:III-91
See Robert O. Castle, PES:73:III-91

Young, C. Wayne
Depth Prediction For Earth-Penetrating Projectiles, SM3:May 69:803:6558
TR:135:6

Young, Chandler P.
Client Relations, EPMT:73:63

Young, Christian S.
Systems Analysis in Airport Master Planning, with Joseph Nemec, Jr., TE4:Nov 74:933:10937

Young, Cortland E.
Effect Of Cultural Practices On Water Resources, SEA:70:77

Young, Ernest F.
Dsc, SA5:Oct 71:798:8409, of "Least Cost Sand Design for Iron Removal", SA2:Apr 71:171:8060

Young, George K., Jr.
Decision Criteria for Using Stochastic Hydrology, with Gerald T. Orlob and Larry A. Roesner, HY4:Apr 70:911:7209
Dsc: Delbert D. Franz, HY9:Sept 70:1922:7497; John A. Cole, HY4:Apr 71:583:8012
TR:136:1035
Design Sensitivity of Pollution Control Reservoirs, with R. W. Schrecongost and W. N. Fitch, SA5:Oct 68:829:6147
TR:136:665

Operational Hydrology Using Residuals, with William C. Pisano, HY4:July 68:909:6034
  Dsc: Archie A. Harms and Thomas H. Campbell, HY2:Mar 69:732:6433; Marshall E. Jennings, HY4:July 69:1468:6641
  TR:135:936
Optimal Design for Highway Drainage Culverts, with Mitchell R. Childrey and Roy E. Trent, HY7:July 74:971:10676
See John R. Stipp, TN: HY1:Jan 71:219:7824
See Salvatore J. Bellomo, TE1:Feb 72:51:8742

Young, George L.
CE Ad Rep Dies, CE:May 74:91

Young, John L.
See David A. Alley, CE:Sept 71:88

Young, Myron C.
Flexibility Influence Functions for Curved Beams, ST7:July 69:1407:6657
  TR:135:56

Young, Myron H.
See Choule J. Sonu, 12CEC:71:1341

Young, Reginald H.F.
See Gordon L. Dugan, EE5:Oct 73:691:10046
See Gordon L. Dugan, HY9:Sept 74:1245:10824

Young, Robert A.
Safe Yield of Aquifers: An Economic Reformulation, IR4:Dec 70:377:7719
  Dsc: John Logan, IR3:Sept 71:536:8346; John F. Mann, Jr., IR4:Dec 71:646:8553; Frederick L. Hotes, IR4:Dec 71:648:8553
  TR:137:869
See William E. Martin, IR4:Dec 69:611:6930

Young, Robert I.
Foundation Design for Steel Mill Building, CO1:July 73:35:9834
  TR:139:382

Young, Robert J.
Surface Bonded Masonry Construction, TB:73:III-27-1099
Team Effort, TB:73:C-DM-215

Young, Robert N.
Evaluating Transportation Systems, with William C. Ockert and Charles E. Pixton, TE2:May 71:347:8131
  TR:137:937

Young, Roger O.
See Edward A. Cecil, PO1:June 72:11:8967

Young, William H.
See Haywood G. Dewey, Jr., PO2:Nov 73:405:10169

Youngblood, Walton M.
See Rufus H. Carter, SA4:Aug 72:663:9077

Younger, Bob
See Stephen L. Tuttle, CEE:Feb 74:1-996

Younger, J. Scott
See William M. Kirkpatrick, SM5:Sept 70:1683:7504

Youngerman, John M.
Dsc, CE:June 70:44, on Civil Engineering Today: A Profession in Crisis-Part II, CE:Feb 70:51

Youngs, E. G.
Dsc, HY7:July 73:1185:9823, of "Perturbation Analysis of Two-Phase Infiltration", HY9:Sept 72:1527:9186

Yrjanson, W. A.
See Phil Fordyce, TE3:Aug 69:407:6726

Ytterberg, R. F.
Wear Resistant Industrial Floors of Portland-Cement Concrete, CE:Jan 71:68
  TR:137:82

Yu, Ching K.
Significance and Application of Stub Column Test Results, with Lambert Tall, ST7:July 71:1841:8231
  Clo: ST6:June 72:1331:8930
  TR:137:677

Yu, I-t'an
Dsc, CE:July 74:29, on Designing Energy-Conserving Buildings, CE:Apr 74:54

Yu, Jason C.
Demand Model for Intercity Multimode Travel, TE2:May 70:203:7282
GASP Simulation of Terminal Air Traffic System, with Wilbur E. Wilhelm, Jr. and Shemsul A. Akhand, TE3:Aug 74:593:10717
Optimizing Transportation Facility Arrangements, with Ronald K. Giguere, TE4:Nov 73:725:10126
  TR:139:491
Parking Facility Layout: Level-of-Service Approach, with Alexander R. Lincoln, TE2:May 73:297:9728
  Errata: TE2:May 74:529:10508
  TR:139:270
Prospects for Bicycle Transportation, BP73:Dec 73:645
Roadway Capacity Related to Curb-Parking Maneuver, with Henry C. Van Dyke, TE3:Aug 73:467:9932
  Errata: TE3:Aug 74:788:10698
  TR:139:401
STOL Passenger Demand in Underdeveloped Areas, TE3:Aug 71:475:8298
  TR:137:807
See Michael J. Quillem, TE4:Nov 72:769:9355

Yu, Shaw L.
Aerator Performance in Natural Streams, SA5:Oct 70:1099:7601
  Dsc: Kuan M. Yao, SA2:Apr 71:242:8013
  Clo: SA6:Dec 71:937:8555
  TR:137:211
See William Whipple, Jr., SA5:Oct 70:1153:7631
See William Whipple, Jr., SA6:Dec 71:883:8601

Yu, Wei-Wen
Cold-Formed Steel Members with Perforated Elements, with Charles S. Davis, ST10:Oct 73:2061:10059
  Dsc: David Ritchie and James Rhodes, ST9:Sept 74:1960:10772
  TR:139:477
Structural Behavior of Thick Cold-Formed Steel Members, with Victor A.S. Liu and William M. McKinney, ST11:Nov 74:2191:10907
Dsc, ST12:Dec 70:2675:7714, of "Rational Design of Light Gage Beams", ST7:July 70:1535:7421

Yu, Yun-Sheng
Onset of Instability Of Power-Law Fluid in Couette Flow, with Dan B. McVickar, EM1:Feb 71:1:7887
  TR:137:76

Yuan, H. F.
Dsc, EM6:Dec 69:1447:6929, of "Analysis of Tunnel Liner-Packing Systems", EM3:June 69:679:6622

Yuan, Sheldon S.W.
See Walter B. Sinnott, TE3:Aug 71:459:8312

Yuan, Shen C.
Shihmen Embankment Dam in Taiwan, China, with Paul E. Bartlett and Chuan C. Feng, IR2:June 67:1:5257
  Dsc: John A.H. Brown, IR1:Mar 68:158:5826
  Clo: IR2:June 70:217:7311
  TR:135:209

Yucel, Oner
- Wall Shear Stress Measurements with Hot-Film Sensors, with Walter H. Graf, HYB:Aug 73:55
- Dsc, HY1:Jan 73:263:9459, of "Bed Load Transportation in Alluvial Channels", HY5:May 71:653:8091
- See Millard P. Robinson, Jr., HY3:Mar 71:468:7940

Yucel, Vefa
- See Catalino B. Cecilio, HY10:Oct 74:1329:10851

Yudhbir
- Dsc, with B. Prasad, SM11:Nov 73:1023:10112, of "Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle", SM1:Jan 73:111:9511
- Dsc, GT8:Aug 74:956:10695, of "Residual Strength and Landslides in Clay and Shale", SM9:Sept 73:705:10023

Yuen, K. B.
- A Preliminary Study of Storm Surges in Hudson Bay, with T. S. Murty, CE13:72:I-215

Yuill, Calvin H.
- Fire Safety, TB:73:Ib-8-677
- Dsc, TB:73:Ib-8-679, of "Fire and Blast, Theme Report", TB:73:Ib-8-463

Yura, Joseph A.
- Ultimate Load Tests on Braced Multistory Frames, with Le-Wu Lu, ST10:Oct 69:2243:6840
  - TR:136:307
- Dsc, STA1:Jan 70:162:6990, of "Deformations of Geometrically Imperfect Beams", ST7:July 69:1475:6682

Yu-Tek, Li
- Dsc, HY11:Nov 72:2047:9305, of "Spatially Varied Flow Over Side-Weirs", HY1:Jan 72:1:8627

Zack, Samuel I.
- Engineering Aspects of Wastewater Contracts, SA3:June 69:465:6602
  - Dsc: David E. Barry, SA6:Dec 69:1208:6931
  - Clo: SA4:Aug 70:1003:7441

Zaghlool, E. Ramzy F.
- Strength Analysis of Corner Column-Slab Connections, ST1:Jan 73:53:9471
  - TR:139:187
- Tests of Flat-Plate Corner Column-Slab Connections, with H. A. Rawdon de Paiva, ST3:Mar 73:551:9616
  - TR:139:256
- Tests of Reinforced Concrete Flat Plate Floors, with H A. Rawdon de Paiva and Peter G Glockner, ST3:Mar 70:487:7147
  - TR:136:612

Zagustin, Konstantin
- The Effect of Large Scale Circulation on the Interface of Stratified Flows, ISSF:Aug 72:727
- Energy Transfer Mechanism for Finite Amplitude Waves, CE13:72:I-523
- Turbulent Flow Over Moving Boundary, with En Yun Hsu and Robert L. Street, WW4:Nov 68:397:6210
  - TR:136:626

Zagustin, Shih-Ang
- Tidal Hydraulics in the Cano Macareo, with Frank D. Masch and Robert J. Brandes, CE13:72:III-2429

Zahn, John J.
- Lateral Stability of Wood Beam-and-Deck Systems, ST7:July 73:1391:9829
  - Errata: ST6:June 74:1317:10569
  - TR:139:379
- Residual Stresses in Curved Laminated Wood Beams, ST12:Dec 69:2873:6977
  - Dsc: Takeyuki Katow, ST8:Aug 70:1846:7442; Max Steinhaus, ST9:Sept 70:1978:7567
  - Clo: ST4:Apr 71:1353:8015
  - TR:136:475
- See Paul M. Jenkinson, ST3:Mar 72:599:8786

Zaidi, Saigid Tauquir Haider
- Dsc, ST12:Dec 73:2485:10185, of "Shear Strength of Continuous Plates", ST5:May 72:961:8876

Zajic, James E.
- See Robert M. Quigley, TN: SM5:May 73:417:9703

Zakic, Borislav D.
- Inelastic Bending of Wood Beams, ST10:Oct 73:2079:10071
  - Dsc: Daniel N. Nwokoye, ST9:Sept 74:1963:10772
  - TR:139:483

Zakin, Jacques L.
- See Michael Poreh, HY4:Apr 70:903:7208

Zamost, Gerald
- Post Lateral Buckling Behavior of Beams, with E. Russell Johnston, Jr., EM4:Aug 71:1133:8313
  - TR:137:735
- Dsc, EM3:June 69:795:6580, of "A Numerical Technique for Elastica Problems", EM5:Oct 68:1159:6182

Zampaglione, Domenico
- Dsc, HY8:Aug 70:1738:7439, of "Nonlinear Flow in Porous Media", HY6:Nov 69:1847:6883

Zanardo, Agostino
- Dsc, EM6:Dec 69:1445:6929, of "Self-Controlled Vibration of a Cylinder in a Fluid Stream", EM2:Apr 69:347:6498

Zande, Richard D.
- "Research and Applied Technology Symposium on Mine-Land Reclamation," by Bitumenious Coal Research, Inc. (Book Review), CE:July 74:42

Zandi, Iraj
- Heterogeneous Flow of Solids in Pipelines, with George C. Govatos, HY3:May 67:145:5244
  - Dsc: Henry A. Babcock and Samuel Shaw, HY6:Nov 67:442:5543; Ian Larsen, HY1:Jan 68:332:5703; David I. H. Barr, HY1:Jan 68:333:5703
  - TR:135:328
- See V. R. Krishna Murthy, EM1:Feb 69:271:6427

Zanobetti, Dino
- Mekong Delta Mathematical Model Program Construction, with Henri Lorgere, Alexandre Preissmann and Jean Andre Cunge, WW2:May 70:181:7259
  - TR:136:1171

Zanotti, Augusto
- See Filippo Zoccoli, HY1:Jan 69:538:6323

Zar, Max
- Brittle Failure of Steel Stack, PO1:July 74:33:10650
- Design of Steel Chimney Liners, with Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
  - TR:138:500

Zarghamee, Mehdi S.
- Analysis of Structures by Quadratic Programming, EM5:Oct 71:1495:8431
  - Dsc: Osvaldo DeDonato and Giulio Maier, EM4:Aug 72:998:9125
  - TR:138:27
- Mathematical Model For Water Distribution Systems, HY1:Jan 71:1:7797
  - Dsc: Edward S. Webber, HY10:Oct 71:1787:8407
  - TR:137:878
- Minimum Weight Design with Stability Constraint, ST8:Aug 70:1697:7486
  - TR:136:1268
- Stability of Spaceframes, with Jayant M. Shah, EM2:Apr 68:371:5878
  - TR:135:833

Zarling, John P.
Orthonormalization Applied to Ground-Water Flows, HY2:Feb 73:285:9546
TR:139:205

Zaslavsky, Aron
Buckling Under Compressive and Tensile Load, TN: ST10:Oct 70:2257:7572

Zavelani, Adolfo
See Giulio Maier, TN: EM4:Aug 73:897:9898

Zavitzianos, Demetri
New Microwave Tower Design Reduces Drag, CE: Mar 71:46
Dsc: Donald W. Rose, CE:July 71:66
TR:137:199

Zecher, Sidney
Dsc, CE:Apr 72:49, on Anti-Technology--The New Myth, CE:Jan 72:68

Zeevaert, Leonardo
Design of Compensated Foundations, State-of-Art Report 1, TB:73:Ia-11-853
Dsc, 4PCSM:72:III166, of "The Allowable Settlement of Structures", 4PCSM:71:I171

Zeitlen, Joseph G.
See Amos Komornik, PES:72:I-1135

Zelikson, A.
Dsc, TE4:Nov 69:688:6868, of " Minimum Cover for Buried Flexible Conduits", PL1:Oct 68:155:6195

Zell, Charles E.
Dsc, UP1:Apr 71:119:8016, of "Community Decision Structure and Urban Planning Process", UP1:Mar 70:17:7126

Zeller, Robert W.
Heated Surface Jets in a Steady Crosscurrent, with John A. Hoopes and Gerard A. Rohlich, HY9:Sept 71:1403:8385
TR:137:769

Zeman, Robert Lewis
Improvement of Land Titles, SU1:May 71:113:8132
Errata: SU1:July 72:122:9004
TR:137:789

Zemitis, Elmars J.
Dsc, CE:Dec 73:22, on Designing Bridge Decks That Won't Deteriorate, CE:Aug 73:43

Zerbe, Tony R.
See Jan D. Achenbach, EM3:June 71:619:8181

Zetlin, Lev
Cost-cutting Techniques for Rapid Transit Structures, with Richard L. Tomasetti, NA:Mar 71:123

Zettlemoyer, Albert C.
Welcoming Remarks at Tall Buildings Conference, TB:73:C-25

Zhadan, V. I.
See I. K. Nikitin, ISSF:Aug 72:635

Zia, Paul
What Do We Know About Torsion in Concrete Members, ST6:June 70:1185:7372
Dsc: K. S. Rajagopalan, ST10:Oct 70:2253:7570; Ganpat S. Pandit, ST2:Feb 71:735:7867; Lennart Elfgren, Inge Karlsson and Anders Losberg, ST3:Mar 71:995:7944; Umakanta Behera, ST3:Mar 71:996:7944
Clo: ST11:Nov 71:2754:8485
TR:136:1313
See William J. Wilhelm, ST10:Oct 70:2103:7614
See Jehangir F. Mirza, ST2:Feb 71:737:7867
See David W. Johnston, ST5:May 71:1611:8147
See Hota V.S. GangaRao, ST1:Jan 73:183:9501
See Robert L. Henry, ST5:May 74:933:10560

Zielinski, Paul B.
See Jerald P. Peterson, HY6:June 74:773:10622

Zielke, Werner
Dsc, with Gerd Rosl, HY7:July 71:1141:8223, of "Resonance in Pressurized Piping Systems", HY9: Sept 70:1819:7525

Zieman, Hartmut
Dsc, SU1:Sept 73:142:9965, of "Theoretical Weighting of Photogrammetric Equations", SU2: Nov 72:127:9346

Zienkiewicz, Olgierd C.
Dsc, EM3:June 69:801:6580, of "Earthquake Behavior of Reservoir-Dam Systems", EM6:Dec 68:1475:6297
Dsc, with Chandrakant J. Parekh, ST8:Aug 70:1838: 7442, of "Analysis of Three Dimensional Thin-Walled Structures", ST12:Dec 69:2863:6968
See Gyan C. Nayak, TN: ST4:Apr 72:949:8838

Zilch, Kon
See Hubert Beck, TB:73:III-23-499

Zimmerli, Bruno
Model for Ultimate Strength of Shear Walls, TB:73: III-21-296

Zimmerman, John R.
See Ralph C. Sklarew, UT73:May 73:127

Zimmie, Thomas F.
Dsc, SA6:Dec 68:1299:6262, of "Feasibility of Improved Subsurface Disposal", SA2:Apr 68:271: 5899
See Rein Laak, SA2:Apr 70:634:7190
See Richard P. Long, TN: SM7:July 73:583:9865

Zinser, Robert A.
See Iraj Noorany, CE13:72:II-1559

Ziogas, Chris C.
Seacoast Dam Separates Saltwater and Fresh, CE:Feb 74:53

Zisman, S. L.
See I. I. Makarov, ISSF:Aug 72:371

Zobel, E. S.
Dsc, PO1:Jan 71:234:7784, of "Tower Designs for AEP 765-KU Project", PO2:Oct 69:305:6855

Zoccoli, Filippo
Dsc, with Augusto Zanotti, HY1:Jan 69:538:6323, of "Design of Optimal Hydraulic Networks", HY3: May 68:641:5930

Zolkov, Elias
Dsc, SM9:Sept 71:1349:8347, of "Aging Effects on Swell Potential of Compacted Clays", SM3:Mar 71: 529:7951
Dsc, CE:Dec 71:47, on Rapid Determination of Plasticity Index, CE:May 71:74
Dsc, SM4:Apr 72:436:8801, of "Simplified Procedure for Evaluating Soil Liquefaction Potential", SM9: Sept 71:1249:8371
Dsc, SM12:Dec 72:1421:9394, of "Acceleration of Lime-Clay Reactions with Salt", SM4:Apr 72:327: 8827
Dsc, CE:June 73:24, on An American Engineer in Israel, CE:June 72:63

Zollman, Donald M.
See Alfred T. Wallace, SA3:June 71:257:8167

Zovne, Jerome J.
See C. Samuel Martin, HY7:July 71:993:8234

Zsak, Edwin
- Manifold Flow in Subirrigation Pipes, HY10:Oct 71:1737:8477
  - Dsc: Thomas R. Camp and S. David Graber, HY4:Apr 72:728:8799; Jonathan A. French, HY4:Apr 72:732:8799
  - Errata: HY10:Oct 72:1878:9222
  - Clo: HY9:Sept 72:1726:9156
  - TR:137:955

Zuckerman, Abraham I.
- Dsc, ST8:Aug 69:1775:6707, of "Lateral Wind on Side Spans of Suspension Bridges", ST10:Oct 68:2399:6175

Zuckerman, Matthew M.
- Dsc, with Alan H. Molof, EE1:Feb 74:220:10302, of "Sorption Kinetics in Finite-Bath Systems", SA6:Dec 72:1021:9430

Zuk, William
- Prefabricated Highways, TE2:May 72:387:8895
  - TR:138:204

Zulfacar, Asadullah
- Highway Noise and Acoustical Buffer Zones, with C. Scott Clark, TE2:May 74:389:10520

Zundelevich, Samuel
- See Lloyd Sako, TE3:Aug 73:597:9915

Zunz, Gerd J.
- See O. N. Arup, CE:Dec 71:50

Zupan, Jeffrey M.
- Economic Analysis for Highways, by Robley Winfrey (Book Review), CE:Mar 70:96
- Social Implications of Land Use and Mode Choice, TE2:May 73:383:9750
  - TR:139:325
- Dsc, TE2:May 73:427:9691, of "Four-Day Week and Transportation", TE3:Aug 72:705:9116

Zwahlen, R.
- See Bernhard E. Gilg, ST6:June 71:1824:8159

Zwamborn, Johan A.
- Coastal Engineering Measurements, with K. S. Russell and J. Nicholson, CE13:72:I-75
- Ocean Wave Research in Southern Africa, with C. van Schaik and A. Harper, 12CEC:71:13
- Underwater Mound for the Protection of Durban's Beaches, with G. A. W. Fromme and J. B. FitzPatrick, 12CEC:71:975
- Dsc, WW4:Nov 68:522:6204, of "Surf Observations Along the United States' Coasts", WW1:Feb 68:11:5786

Zwarts, C. M.G.
- Transmission Line Wave Height Transducer, WAVES:Sept 74:605

Zweben, Carl H.
- Dsc, CE:Sept 71:54, on Four Freeway Fallacies, San Francisco Section, ASCE Highway Technical Division Task Force, CE:Mar 71:72
- Dsc, CE:Nov 72:49, on Fracture Mechanics, With High-Strength Steels A Must, CE:Aug 72:37
- Dsc, CE:Sept 73:29, on "Quo Vadis, ASCE?", CE:June 73:59

Zweig, Alfred
- Buckling Analysis of One-Story Frames, ST9:Sept 68:2107:6118
  - Dsc: Adel Helmy Salem, ST5:May 69:1017:6526; Mehmet Celebi, ST7:July 69:1573:6644
  - Errata: ST1:Jan 69:136:6325
  - Clo: ST1:Jan 70:133:6990
  - TR:135:792
- Dsc, ST3:Mar 69:535:6430, of "Stability Analysis of Frameworks by Matrix Methods", ST7:July 68:1745:6032

Zwoyer, Eugene
- Are ASCE Dues Too High, CE:May 73:43
  - TR:139:194
- ASCE Concern with Professional Conduct, CE:Oct 73:77
  - Dsc: Herbert D. Vogel, CE:Jan 74:22
  - TR:139:471
- ASCE Signs Consent Decree on Competitive Bidding, CE:July 72:37
  - TR:138:315
- Eugene M. Zwoyer Takes Over as ASCE Executive Director, CE:May 72:66
- Executive Director, CE:Oct 72:49
  - TR:138:437
- On Some Joint Activities, CE:Jan 73:51
- A Report from the Executive Director on Membership Dues, CE:Dec 72:29
  - Dsc: Al Rivera, CE:Oct 73:31
  - Clo: CE:June 73:55
  - TR:138:516
- A report from the executive director, CE:July 74:74